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About the Catalog

The Palm Beach State College Catalog is an information and reference guide on College policies, facilities, degree and certificate programs, course offerings, services and personnel. Since the statements contained in the catalog are for informational purposes only, it should not be considered the basis of a contract between the institution and the student.

Generally, the provisions outlined in the catalog are applicable as stated, but the College reserves the right to initiate changes including but not limited to academic requirements for graduation without direct notification to individuals. Any statement in this catalog is subject to change by the College. Though the catalog is produced as a reference guide, each student is responsible for keeping apprised of current requirements for graduation for a particular degree program.

Catalog addenda may be published online each year depending on the number of changes incurred since the catalog was printed. Availability of a catalog addendum (if published) would be on the College’s website only.

Disability Support

Palm Beach State College does not discriminate on the basis of disability in the admission or access to, or treatment of employment in, its programs or activities. The following offices have been designated to coordinate compliance with the non-discrimination requirements of the Americans with Disabilities Act and with Section 504 of the Rehabilitation Act of 1973:

**Disability Support Services/Access**
College Wide Student Programs Director, 561-868-3375

**Employment Access**
Employment Manager, 561-868-3111

**Facilities Access**
Facilities Director, 561-868-3615

This publication can be made available in alternate formats to persons with disabilities. Please make requests well in advance of need to:

Disability Support Services, MS #54
Palm Beach State College
4200 Congress Avenue
Lake Worth, FL 33461-4796
Telephone: 561-868-3375 (V/TTY)

Equal Access

Palm Beach State College is an equal access equal opportunity institution. The College complies with all state and federal laws granting rights to applicants for employment or admission to the College, employees, and students. The College prohibits unlawful discrimination on the basis of race, color, creed, sex, ethnicity, national origin, gender, sexual orientation, age, religion, marital status, veteran status, disability, or genetic information in any of its employment, educational programs or activities.

Religious Observances Policy

The College shall make reasonable accommodation in admissions, class attendance, scheduling of examinations and work assignments in regard to religious observances, practices and beliefs of individual students, as required by Florida statute. Students are required to notify in writing, instructors and other appropriate College personnel at least one week prior to an anticipated religious observance. A student who is denied accommodations may appeal in writing to the supervisor of the faculty or staff member who denied the request within 10 class days from the time of the denial. If the student is not satisfied with the determination at this level, an appeal may be made to the next level of academic management. To expedite the process, the maximum time period between all appeals and responses will be 10 class days.
The student may appeal to the dean of academic affairs for a committee hearing if the student is not satisfied with the results of the preceding steps. The committee, to be appointed by the campus provost, will hear the facts and provide a recommendation to the provost, whose decision on the matter shall be final.

Students are responsible for all material covered during their approved absence. The approval shall detail a reasonable period for the student to complete missed work and make-up assignments. When possible, major class assignments, examinations and official ceremonies, shall not be scheduled on major religious holidays.

Sex Crimes Prevention Act

The Federal Campus Sex Crimes Prevention Act and Florida Laws require registered sex offenders/predators to provide to the Florida Department of Law Enforcement notice of each institution of higher education in the state, including each campus at which the offender/predator is enrolled, employed, volunteering or carries on a vocation. A registered sex offender/predator may also have to provide notice to the Sheriff’s office, the Department of Law Enforcement or the Department of Corrections upon a change in enrollment, volunteer or employment status. Anyone wishing to obtain further information regarding sexual offenders/predators in the area may refer to the FDLE website at: www.fdle.state.fl.us or call 888-FL-PREDATOR or 888-357-7332.

General Information

History

Website: www.palmbeachstate.edu/History

In July 1933, a small article appeared in the Palm Beach Post Times titled, “Many High School Graduates Preparing to Enter College.”

“Despite present economic conditions many of this year’s graduates of Palm Beach High are eager to carry on their education and plan to do so in one way or another,” the article said. “Many of the students are still undecided as to where they will be next fall and what they will be doing.”

The “present economic conditions” referred to in the article later became known as the Great Depression. With nearly one in four Americans unemployed in 1933, a job of any kind was next to impossible to find, and money for tuition and books to attend college scarcer still. The converging forces of a crippled national economy and a local need for an institution of higher learning led to the opportune founding of Florida’s first public junior college.

Later that year, county Superintendent of Public Instruction Joe Youngblood and Howell Watkins, principal of Palm Beach High School, joined together to make plans for a postsecondary education for students financially unable to leave the county to attend college. They enlisted the support of ordinary citizens and local civic and business leaders. Colleagues at the University of Florida and the Florida State College for Women (now Florida State University) helped to develop the college-level curriculum.

In a storage building at the high school on Gardenia Street in West Palm Beach, three rooms were quickly converted into classrooms to accommodate 41 incoming college freshmen. Tuition was free, and seven instructors at Palm Beach High taught part-time at the College, donating their services. The first day of classes at the new Palm Beach Junior College was Nov. 14, 1933. Students could choose from a schedule that included languages, mathematics, history, biology, art and physical education.

The College graduated its first class of three students in 1936, and John I. Leonard succeeded Youngblood as superintendent, later becoming PBJC’s first president. By the end of the decade, over 100 students were taking classes, and the College had expanded to take over the entire building.

In early 1948, the College moved from its cramped quarters next to Palm Beach High to the more spacious confines of Morrison Field, a retired World War II air base (and current site of the Palm Beach International Airport). The library was housed in a vast airplane hangar and the Officers Club became the perfect student union. The military base offered laboratories and classrooms with cutting-edge (for the time) equipment, an administration building, athletic fields, dormitories—even a swimming pool. More than 300 students enrolled for classes that fall, and that number was expected to double in the next year.

The euphoria proved short-lived. On “Black Wednesday,” May 9, 1951, the school board announced Morrison Field was to be reactivated because of the Korean War. The College relocated yet again to the former town hall of
Lake Park. The small size of the building forced PBJC to slash its administrative and teaching staff, and enrollment dwindled to fewer than 200 students. Chemistry class was held in the former jail, the courtroom was converted into a library and the student lounge was a space that once housed fire engines. The local press referred to PBJC as “The Little Orphan College,” and that it was for the next five years.

The College’s current main campus in Lake Worth came about through Palm Beach County’s donation of the 114-acre parcel at the intersection of Congress Avenue and Lake Worth Road. The state Legislature allocated more than $1 million for campus construction. In the spring of 1956, work began and later that year, the first of five buildings was completed. At last, Palm Beach Junior College had a permanent home.

With the opening of the new campus, enrollment soared to 475 students, and more faculty and general education classes were added to the curriculum. In 1958, John I. Leonard retired and Dr. Harold C. Manor was named PBJC’s second president. As the College grew in size, more courses were added, including the first full schedule of evening classes. Enrollment topped 1,000 for the first time.

Plans for a technology building, fine arts building, an auditorium and increased parking were announced. That same year Roosevelt Junior College was established for African-American students under President Britton Sayles. Seven years later the two schools would merge, with PBJC absorbing Roosevelt’s students and some of its faculty. The College also underwent a significant governance change; it went from being under the auspices of the county school district to being governed by its own board of trustees appointed by the governor in 1968.

As the population steadily increased and development stretched to all four corners of Palm Beach County, the College expanded right along with it. In quick succession, PBJC opened campuses in Belle Glade (1977), Palm Beach Gardens (1980) and Boca Raton (1983). The driving force for this unprecedented growth was the stewardship of Dr. Edward Eissey, who succeeded Harold Manor as president in 1978. Eissey lobbied local citizens and the Florida Legislature for a property tax increase to raise funds for the school. The measure passed and the College eventually received over $9 million for campus renovations and improvements. Enrollment passed 10,000 students for the first time in 1980. Dr. Eissey was also instrumental in steering through the name change from Palm Beach Junior College to Palm Beach Community College to signify the growth in programs focused specifically on community educational needs.

Dr. Dennis P. Gallon became the College’s fourth president in 1997. Under his leadership the College assumed responsibility for offering more than 40 Postsecondary Adult Vocational (PSAV) certificate programs previously administered by the county school district. In another giant leap forward, PBCC was approved by the state Board of Education in 2008 to offer its first four-year degree. In 2009, upper-level courses began for students pursuing the Bachelor of Applied Science degree in Supervision and Management. The B.A.S. degree was the first of its kind to be offered by any institution in Palm Beach County. Bachelor’s degree programs in information management and nursing soon followed.

With the move from a two-year institution to a college that also offered its own bachelor’s degree programs, the push was on to rebrand the College. The new name, Palm Beach State College, was officially implemented Jan. 12, 2010, signifying the start of a new era for the institution, its graduates and the community.

Palm Beach State College’s first woman president, Ava L. Parker, J.D., was named in 2015. Among other initiatives, President Parker is steering the development of the College’s fifth campus currently under construction in Loxahatchee Groves in west-central Palm Beach County. The campus is scheduled to open in 2017.

Mission

Palm Beach State College, founded in 1933 as Florida’s first public community college, is a diverse, comprehensive institution dedicated to serving the educational needs of Palm Beach County. Integantly linked to the community through strong partnerships, the College provides associate and baccalaureate degrees, professional certificates, workforce development and lifelong learning.

Palm Beach State College’s mission is to create and sustain a dynamic teaching and learning environment that provides a high-quality, accessible, affordable education, preparing students to contribute and compete ethically and successfully in a diverse global community.

Vision
We envision a College of diverse, active learners engaged in intellectual, social and personal growth that enriches and transforms our community.

Beliefs

We believe...

- Student success is our first priority, and all students can succeed.
- Ethical standards are integral to the educational experience.
- Faculty and instructors should use instructional methods and technology that meet the diverse learning styles of students.
- The College curriculum and its operations should demonstrate a commitment to ecological sustainability.
- The College must anticipate and respond to evolving community needs by reaching out to all potential partners and establishing programs and courses that will meet those needs.
- Quality education is a worthwhile investment.
- An educated workforce has a positive impact on our community and economic health.
- Faculty/staff development is integral to quality education.
- A safe, secure and supportive College climate is essential.
- Diversity reflects society and enhances the educational process.
- Equity and equality of opportunity are essential.
- Lifelong learning enhances the quality of life.
- Collaboration enhances the quality of decision-making.

Accreditation

Palm Beach State College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award the associate and baccalaureate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Palm Beach State College. The Commission should be contacted only if there is evidence that appears to support an institution’s non-compliance with an accreditation requirement or standard.

Accreditation also has been granted by professional organizations for certain specific programs. This is noted in this catalog on pages where the program is outlined. The absence of such a notation indicates that professional accreditation has neither been sought nor granted.

Memberships

The College is an active member of the American Association of Community Colleges and the Association of Florida Colleges, as well as other professional organizations.

Foundation

The Palm Beach State College Foundation was established in 1973 to encourage, solicit, receive and administer gifts and bequests of property for scientific, educational, developmental and charitable purposes, all for the advancement of Palm Beach State College and its objectives. Monies raised by the Foundation allow the College to offer a wider range of scholarships for students, incorporate state-of-the-art technology systems and programs into the curriculum, add new courses to keep career training programs consistent with the local business community and fulfill the College’s mission.

Locations

Courses are offered at College locations in Belle Glade, Boca Raton, Lake Worth and Palm Beach Gardens. Each location offers general education courses; however, certain programs may not be available at all locations. Detailed maps for each College location can be found here.

BELLE GLADE

Serving residents of the western communities of Palm Beach County, the Belle Glade location opened in 1972. The permanent facility was built in 1977 and occupied in January 1978. Guided since 1999 by a consortium of educational, community and civic leaders called the Glades Initiative Partnership Council, the College has expanded general
education, occupational training, student services and community outreach to meet the diverse educational needs of the area.

The Belle Glade location offers comprehensive courses for transfer to four-year institutions as well as career, technical and continuing education courses. The 470-seat Dolly Hand Cultural Arts Center at Belle Glade offers a variety of cultural and entertainment performances and is available for rental by individuals and organizations. High-skills career programs are housed at the Technical Education Center completed in 2010.

BOCA RATON

Palm Beach State College serves the greater south Palm Beach County area from its campus in Boca Raton, conveniently located adjacent to Florida Atlantic University. Many students take advantage of the close partnership between the two institutions to earn a baccalaureate degree at one location. In addition, all Palm Beach State students enjoy full-use privileges at the FAU library.

The Boca Raton campus provides students with state-of-the-art classrooms and laboratory facilities. Known for addressing the learning needs of the entire local community, the campus offers classes for those seeking a college degree as well as those interested in job training, upgrading of skills and personal enrichment workshops. Extensive courses in architecture and photography are offered for students pursuing those career interests. The campus offers Summer Youth College for ages 8-14, and the success of that program led to the creation of youth leadership and youth entrepreneurship programs. The Center for Business Entrepreneurship, which houses the Small Business Development Center and Procurement Technical Assistance Center, provides counseling, seminars, workshops and customized training. The Women Entrepreneurs Network meets monthly for sharing of ideas and collaboration on business ventures.

LAKE WORTH

Lake Worth is the College’s largest and longest-established campus. Bordered by Lake Osborne and John Prince Park, the 114-acre campus offers bachelor’s degrees as well as numerous programs for those planning to transfer to universities or enter or advance in the workforce. The campus serves more than 30,000 students annually, and its student body is a microcosm of the richly diverse population of the greater Lake Worth area.

The Dr. Floyd F. Koch Honors College is headquartered at the Lake Worth campus. The Panthers intercollegiate athletic teams play and practice at this campus, which also is home to the Dr. Kathryn W. Davis Global Education Center, an education and information resource center for immigrants residing in Palm Beach County. Outstanding campus features include the spacious Watson B. Duncan III Theatre, which serves as a performing arts instructional facility and presents world-class cultural and entertainment events and visiting artists for the public. The newest campus building, the Public Safety Training Center, opened in 2013 as a comprehensive education and training hub for criminal justice, fire, emergency management and emergency medical services programs.

PALM BEACH GARDENS

The Palm Beach Gardens campus opened in 1982 as a permanent, full-time facility offering Associate in Arts and Associate in Science degrees and certificate programs. Today, the campus offers credit and noncredit courses, programs and workshops to approximately 15,000 students each year. The campus sits on 123 acres in a lush, natural Florida setting that features many native plants, including a cypress preserve. The Myrna Rubenstein Pavilion at the center of campus features an ecological pond and waterfall. The pavilion and adjacent amphitheater serve as a gathering place for student activities and events.

The Bioscience Technology Complex opened in 2008 houses an expanded science curriculum, the Institute for Energy and Environmental Sustainability and the Math & Science Institute. The campus also features modern multimedia classrooms and laboratories, a horticultural nursery, community athletic fields and an art gallery. The 750-seat Eissey Campus Theatre is a cultural hub for northern Palm Beach County, presenting community educational programs as well as family entertainment through its popular “Arts in the Gardens” guest artist series. The Center for Early Learning is a state-of-the-art child care center serving children of students and employees as well as families from the community.

Admissions

Academic Calendar
Admission Criteria

Students seeking to take courses, other than continuing education noncredit courses, must have one of the following:

- Standard high school diploma from a regionally accredited high school. A high school diploma from a non-regionally accredited institution will be reviewed by the College to determine if the institution meets the Florida standard high school diploma criteria.*
- Florida Home Education graduation, in accordance with sections 1003.43 and 1003.26, Florida Statutes.
- Florida “Special Option” Graduation (W8A): Florida public high school students who have met all standard high school diploma requirements except the Florida Comprehensive Assessment Test (FCAT) also will be granted admission; however, they are not eligible to apply for Limited Access programs (that require high school graduation), to be eligible athletes, or to receive financial aid.
- A state-issued General Educational Development (GED) diploma. Students with GEDs are afforded the same rights and privileges as students with standard high school diplomas.
- Approval for Early Admission/High School Dual Enrollment.
- Demonstrated competency in college credit postsecondary coursework, in accordance with section 1007.263, Florida Statutes. The College defines this competency as any student who is applying for a non-Limited Access program who has received an associate degree (A.A., A.S.) or higher from a regionally accredited institution of higher education.*

High school students are eligible to take Corporate and Continuing Education (CCE) noncredit courses. They are responsible for all fees for the course(s). CCE courses are not eligible for dual enrollment and earn no high school credit. Some courses may have age restrictions because of accreditation or other requirements.

International student admission information is provided under “Admissions Procedures” in this catalog section.

Some Postsecondary Adult Vocational (PSAV) programs and noncredit courses may not require high school graduation; however, students may not be enrolled in a high school program. Refer to the Areas of Study section in this catalog.

In accordance with Florida statutes, no student will be admitted to Palm Beach State College for a period of two years following expulsion from a college or university for unlawful possession, sale or use of narcotic drugs or for campus disruption.

*A student or institution may appeal the policy. However, should the quality of the educational program of the institution attended appear unsatisfactory, the College registrar has the authority to not accept all or any part of the previously earned diploma or credit.

Admission Policies

COLLECTION OF STUDENT SOCIAL SECURITY NUMBERS (SSN)

Federal legislation relating to the American Opportunity Tax Credit requires that all postsecondary institutions report student Social Security numbers to the Internal Revenue Service (IRS). This IRS requirement makes it necessary for institutions to collect the SSN of every student. A student may refuse to disclose his or her SSN to the college, but the College is authorized by IRS to fine the student $50. Refusal to disclose the SSN also may affect a student’s ability to receive financial aid and transfer coursework. Palm Beach State College protects students’ personal information. More information regarding the security of student records is listed in the Academic Policies section of the catalog.

CONDITIONS FOR ADMISSION

At the point of application, students applying to take credit or vocational courses will receive an acceptance communication with information that outlines any outstanding requirements needed to complete the admissions process. All degree-seeking students and certain certificate-seeking students are required to have transcripts sent to the College within one term or they may not register for subsequent terms. Students can check the status of their received and/or evaluated transcripts at www.palmbeachstate.edu/Pantherweb, click on Records.

All international student transcripts and commercial evaluations, if applicable, must be received before a first term of enrollment will be permitted. Transcripts are required prior to enrollment for financial aid recipients. Some programs have additional admissions requirements. Refer to the Areas of Study section in this catalog; also check the high
school dual enrollment and early admission information and the international students’ information, both of which are presented in this Admissions section.

INSURANCE

The College assumes no responsibility for accidents that may occur or expenses incurred from accidents; therefore, students are encouraged to secure adequate insurance to cover any medical expenses they might incur. Students participating in College activities or enrolled in certain programs may also be required to secure insurance.

Insurance is mandatory for all students on an F-1 visa. Contact the International Student Office for more information.

NON-DISCRIMINATORY POLICY

Palm Beach State College does not discriminate on the basis of race, color, creed, sex, ethnicity, national origin, gender, sexual orientation, age, religion, marital status, veteran status, disability, or genetic information in any of its educational programs or other programs and activities. Limited Access programs select students using an applicant pool and consider only the criteria outlined in each program’s additional application information.

The College reserves the right to deny admission to applicants who fail to meet established academic. Decision on admission rests with the Registrar’s Office.

If an applicant believes that he or she has been subject to discrimination during the application process, the applicant should submit his/her concerns to:

College Registrar
Palm Beach State College
4200 Congress Avenue, MS #7
Lake Worth, FL 33461

Letters should include the applicant’s name, student ID or Social Security number, address, phone numbers, and information relating to the complaint. The College registrar will investigate the stated claim and provide a response in writing. Applicants who are denied admission may appeal to the Admissions Appeals Committee, chaired by the vice president of student services and enrollment management.

The College prohibits retaliation against any applicant who utilizes this complaint procedure regarding application processes. The applicant will be considered for any future programs for which he or she applies and is qualified.

POLICY FOR COMMUNICATION WITH STUDENTS

The College assigns all students a College email address when processing their applications. College faculty and staff will send official communications to students through the following methods, including but not limited to:

• College-assigned email. Students must check their College-assigned email address frequently to ensure they obtain critical information and assignments.
• The official Student Updates Web page, located at www.palmbeachstate.edu/StudentUpdates.
• Certified mail, return receipt requested.

Note: Computers for student use are located in the College libraries, Student Learning Centers and other campus locations.

RELEASE OF TRANSCRIPTS

Upon admission, students authorize the College to release Palm Beach State College transcripts to governmental, educational and licensing agencies as appropriate. For additional information regarding the release of student records, refer to the Academic Policies section of the catalog.

Students may view their transcripts from other institutions at any campus registrar’s office but may only obtain an unofficial copy of the record. It is recommended that the student request a copy from the institution from which the transcript originated.

Florida Residency for Tuition Purposes
For the purpose of assessing tuition cost in the State’s public colleges and universities, students are classified as Florida residents or non-Florida residents in accordance with criteria set forth in Florida Statute (FS) 1009.21, State Board of Education Rules 6A-10.044 and 6A-20.003. A student’s residency classification determines whether the student’s tuition fees will be at the College’s established in-state or out-of-state rate.

U.S. citizens, lawful permanent residents, and legal aliens lawfully present in the U.S. who are in an eligible Visa category may be classified as a Florida resident for tuition purposes if the independent student or the dependent student’s parent/legal guardian has established and maintained legal residence in Florida for at least 12 consecutive months immediately prior to the first day of classes of the term for which Florida residency is requested. Students who are non-U.S. citizens must also submit appropriate valid documentation from U.S. Citizenship and Immigration Services (USCIS) to the College prior to the start of the term. Any student who was previously classified as a non-U.S. citizen and is now returning as a U.S. citizen must submit proper USCIS documentation. For more information, visit www.FloridaShines.org. F-1/M-1 visa students cannot be considered for in-state residency.

Note: Residency requirements are subject to change pending the decision of the Florida Legislature.

INITIAL RESIDENCY CLASSIFICATION

The initial classification for Florida residency is determined upon submission of the application for admission for all new and returning (degree- or non-degree-seeking) students. Students seeking an in-state resident classification are required to complete the Residency Affidavit section of the application and provide information that pertains to the claimant (person claiming to be the Florida resident). For independent students, the claimant is the student and the student provides his/her own information. For dependent students, the claimant is a parent or legal guardian and the parent’s or legal guardian’s information must be provided. For specific definitions of a dependent and an independent student, please refer to the Florida Residency for Tuition Purposes Guidelines.

When completing the Residency Affidavit, information may be provided for at least two of the following three documents: Florida voter’s registration card, Florida driver’s license or identification card and/or Florida vehicle registration. Other acceptable documents that may be used for residency purposes are listed in the Florida Residency for Tuition Purposes Guidelines. All documents supporting the establishment of Florida residency must have been dated, issued or filed 12 months or more prior to the first day of classes of the term for which Florida residency is requested.

After the College reviews and verifies the residency information, a residency classification email will be sent to each student informing them of their residency status and, if appropriate, will outline if additional information or documentation is required. Failure to provide all requested information or documentation before the first scheduled class day of the term or session in which the student enrolls will result in a non-Florida classification and the student will be charged out-of-state tuition rates.

Note: The residency classification for Transient students who attend a Florida public college or university will be the same residency classification determined by their home institution.

RECLASSIFICATION

A student who is initially classified as an out-of-state resident may become eligible for reclassification to in-state status. To be considered for reclassification, the student must submit a completed Florida Residency Change form along with supporting documentation to any campus Registrar’s Office prior to the first day of the term for which reclassification is requested. A minimum of three documents that support clear and convincing evidence of Florida legal residence for at least the last 12 consecutive months is required. To download and print the Florida Residency Change form, go to www.palmbeachstate.edu/admissions/Forms.aspx.

Students who become eligible for the in-state status during a term shall have their record adjusted to reflect the changed status effective for the next term of enrollment.

APPEAL

Students denied reclassification may appeal to the Residency Appeal Committee by submitting a completed Appeal of Florida Residency Classification form to any campus Registrar’s Office. The appeals form, with detailed instruction, is available on the Admissions website.
GENERAL ADMISSIONS

1. Application
Instructions for applying to the College are located online at www.palmbeachstate.edu, click on APPLY. Applicants should carefully read the instructions to determine which application process to complete. Applicants are notified of their application status by email to their personal email account and/or their newly assigned Palm Beach State College email account.

2. Application Fee
New students will be assessed a $40 nonrefundable application fee. International (F-1/M-1) students will be assessed a $75 nonrefundable application fee. Returning students, high school dual enrollment and early admission students, and transient students who attend a Florida public institution will not be assessed an application fee.

   Note: The fee for the first PERT, TABE or Compass exam taken at Palm Beach State is included in the application fee. The application fee must be paid before taking the exam.

3. Transcripts
   Transcripts are official records of coursework taken at educational institutions. All credit degree-seeking students and certificate-seeking students whose program requires high school completion must submit transcripts within one term or they may not register for subsequent terms. Transcripts should be received by the Registrar’s Office prior to orientation and registration and must show graduation with a standard high school diploma or high school equivalency diploma and the graduation date.
   • Applicants who have a General Educational Development (GED) diploma must submit official transcripts from a state Department of Education.
   • Applicants who are home education graduates must submit a completed and notarized Legal Compliance and Eligibility Form.
   • Applicants with out-of-country high school credentials must provide proof of high school completion (subject to the College’s evaluation). Original records are not required.
   • Transfer (college) students must submit official high school and college transcripts from each institution attended and should have college transcripts sent prior to registration to ensure proper advisement.
   • All college transcripts from postsecondary institutions outside the United States must have a course-by-course commercial evaluation completed by an approved agency. A current list of approved agencies is located at www.NACES.org/members.htm. The College also accepts commercial evaluations from AACRAO International Education Services at IES.AACRAO.org. The registrar must receive all international students’ (on F1/M1 visa) transcripts and commercial evaluations before a first term of enrollment.

   To be considered official, transcripts either may be sent directly to the College from the issuing institution or be hand-delivered in a sealed envelope sealed by the issuing institution. Faxed transcripts are not considered official.

   Transcript request forms are available online at www.palmbeachstate.edu/Admissions. All transcripts and documents received become property of the College and will not be copied or transmitted to third parties, except in accordance with state or federal law. Students can check the status of their received and/or evaluated transcripts at www.palmbeachstate.edu/Pantherweb.

   Transfer students are encouraged to read information under the “Transfer Students” section of the catalog.

   Note: A student will not be eligible to receive financial aid or scholarships until Palm Beach State receives and evaluates official copies of all transcripts.

4. Placement Tests
   Unless a student qualifies for an exemption as outlined below, all degree-seeking students, college credit certificate-seeking students and non-degree-seeking students wishing to take Gordon Rule writing and mathematics courses who have not successfully completed college-level math and English must furnish official test scores from the Postsecondary Education Readiness Test (PERT), Accuplacer, ACT or SAT before registration. Test scores are valid for two years from the date the test was taken.

   If ACT or SAT scores do not meet the state-designated minimums, students must retest or take PERT for placement. The fee for the first PERT, TABE or Compass exam taken at Palm Beach State is included in the application fee. Students must pay the application fee before taking the exam. A retest fee is charged for any subsequent testing.
Students whose primary language is not English and did not graduate from a U.S. high school or pass a U.S. GED test in English are required to prove college-level English proficiency before taking the college placement test. Students who transfer from a non-U.S. postsecondary institution must also prove English proficiency. For more information, contact any campus Academic Advising department.

Placement Test Exemptions—Students are exempt from the placement test requirement if they provide the appropriate documentation showing that they:

- entered 9th grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a Florida standard high school diploma; or
- are serving as an active duty member of any branch of the U.S. Armed Services; or
- have test scores (ACT, SAT, Accuplacer or PERT) that are less than two years old from date test was taken and scores meet the state-designated minimums for college-level English and mathematics courses; or
- have successfully completed college preparatory or developmental education course requirements in English, reading and mathematics; or
- provide proof of successful completion of college-level English and mathematics courses from a regionally accredited college or university.

Note: Students who are exempt may request to take the PERT or to enroll in developmental education if they wish. Exempted students are strongly encouraged to meet with an academic advisor, prior to enrollment of classes, to assist them in evaluating their college readiness level.

5. New Student Orientation/Educational Planning Workshop

All first-time-in-college (FTIC) degree-seeking students must complete an online Orientation followed by an on-campus Educational Planning Workshop before being allowed to register for classes. For detailed instructions on completing the online Orientation and scheduling an Educational Planning Workshop, please go to www.palmbeachstate.edu/Advising/new-student-orientation.aspx.

As a condition of admission, all FTIC degree-seeking students are required to take and successfully complete Introduction to the College Experience (SLS 1501) during their first term of enrollment.

6. Register and Pay for Classes

Students must register for classes through PantherWeb. Payment of fees is accepted online through PantherWeb, by mail or at any campus Cashier’s Office.

LIMITED ACCESS PROGRAMS

Some programs offered at Palm Beach State are classified as limited access programs, which means a limited number of students are admitted to these programs each term or year. There are also special standards and procedures established for admission to these programs. For detailed information about each of the College’s limited access programs, visit www.palmbeachstate.edu/Admissions. Admission to the College does not imply nor guarantee admission into any program with special admission requirements.

INTERNATIONAL STUDENTS

Applicants to Degree Programs

Palm Beach State College is authorized under federal law to enroll non-immigrant alien students. The College welcomes students from other countries who meet the College’s standard admissions requirements in addition to the criteria below.

International students should start the admission process at the earliest possible date prior to the beginning of any College term. A three-month lead time is recommended to ensure enrollment as requested. Applications from international students will be accepted for the Fall and Spring 16-week terms (August and January) and the Summer 12-week term (May). International applicants must take the following steps and submit all admission documents to the Office of International Admissions and Recruitment prior to the deadline:

1. Print and complete a paper application for admission at www.palmbeachstate.edu/International. (Please visit www.palmbeachstate.edu/AcademicCalendar for the application deadline).
2. Submit a non-refundable $75.00 (US) application fee. The application will not be processed until the application fee has been paid in full.
3. Provide documentation of successful completion of high school (upper-secondary).
4. Submit a transcript from each postsecondary institution attended. University-level transcripts from outside the United States must be accompanied by a certified course-by-course commercial evaluation from an accredited evaluation company. For a listing of approved agencies, visit www.NACES.org/members.htm. The College also accepts commercial evaluations from AACRAO International Education Services at IES.AACRAO.org. Transcripts and commercial evaluations may be either sent directly to Palm Beach State College from the issuing institution or agency or be hand-delivered in a sealed envelope sealed by the issuing institution or agency.
   • Documents written in a foreign language may be required to be accompanied by certified English translations.
   • Satisfactory academic and conduct records from comparable secondary or higher-level educational institution attended must be submitted.
   • Records must show the equivalent of at least U.S. high school graduation as determined by the Registrar’s Office.
   • Applicants transferring from postsecondary institutions must have a least a 2.0 grade point average (GPA), be in lawful immigration status, and be in good standing (eligible to continue at or return to the institution).

5. Provide evidence of English proficiency if required. International applicants whose native language is not English must present evidence of proficiency in speaking, writing and understanding of the English language by meeting one of the following conditions.
   • Submission of passing scores on:
     **LOEP (Levels of English Proficiency)** – A score of 86 or higher on the LOEP test, which the College administers through its Testing Centers. The fee for the first LOEP test taken at Palm Beach State is included in the application fee. Students must pay the application fee before taking the exam. A retest fee is charged for any subsequent testing. This test may be taken every 30 days.
     **TOEFL (Test of English as a Foreign Language)** – A score of 500 or higher on the TOEFL (paper-based), or 173 or higher on the computerized TOEFL (CBT), or 61 or higher on the Internet-based test TOEFL (iBT). The TOEFL is administered by the Education Testing Service (ETS), Princeton, New Jersey 08451 (www.TOEFL.org). The applicant must make arrangements directly with ETS to take the examination and must request that results be sent to the Office of International Admissions and Recruitment at Palm Beach State College. (The College’s TOEFL Code is 5531.)
     **IELTS (International English Language Testing System)** – A score of 5.5 or higher on the IELTS test.
     • Successful completion of the GED in English.
     • Graduation from a U.S. accredited high school with a standard high school diploma.
     • Successful completion of ENC1101 from a U.S. college or university.

6. Provide notarized affidavit of financial support. Applicants must show they have sufficient funds to cover tuition, fees, books, living expenses, transportation and incidental expenses while attending the College. Proof of the availability of funds (i.e., bank statements) to cover the expenses for the first year of enrollment is required. Funds must be available prior to the time international students register for each semester. No federal financial aid is available to international students, although limited funds are sometimes provided by local community organizations through the Financial Aid Office.

7. Provide proof of health and accident insurance. (Insurance can be arranged through the Office of International Admissions and Recruitment.)

International applicants will be notified by the Office of International Admissions and Recruitment of their acceptance to the College and will then be provided with the Certificate of Eligibility (Form I-20). Documentary evidence of means of financial support must be attached to the Certificate of Eligibility (Form I-20) when applying for the student visa at the U.S. Embassy or Consular Office, or for the Change of Status with the U.S. Citizenship and Immigration Services (USCIS).

Upon acceptance, the student is responsible for complying with all immigration laws in order to maintain valid legal status. The following conditions apply:

• International students must be classified as degree-seeking students and maintain full-time academic status (12 semester hours) in the fall and spring terms. In addition, students admitted in the summer must be enrolled full time during their initial term of enrollment.
• International students must maintain a minimum Palm Beach State cumulative grade point average (CGPA) of 2.0 every semester to remain eligible for enrollment at the College.
• International students must keep a current passport that is valid for at least six months in the future.
• International students must have their travel documents reviewed by the international student advisor before leaving the USA.
• Employment is not permitted for F-1 visa students without meeting specific conditions and having permission from the United States Citizenship and Immigration Services (USCIS).

For information on the admission requirements for international students to the Bachelor's degree programs, visit www.palmbeachstate.edu/International.

BACHELOR'S DEGREE-SEEKING STUDENTS

1. Submit an online application for admission.
2. Completion of ONE of the following is required to be accepted into the Bachelor’s program:
   • An A.S.* or an A.A.S.* degree (with a minimum of 60 semester hours) in a professional/technical field; or
   • An A.A.* degree with a minimum of 60 semester hours; or
   • Sixty* credit hours that are equivalent to satisfactory completion of an A.A, A.S., or A.A.S. degree program.
   * The degree or earned credits must have been completed and awarded by a regionally accredited education institution. Refer to Areas of Study section of the catalog.

• Completion of 36 semester hours of transferable general education credit hours, satisfying Palm Beach State College’s general education requirements (or indication on the transcript that the student has completed general education requirements at another Florida college or university). Each bachelor's degree has requirements as to the types of acceptable degrees and coursework that may apply. Please see a bachelor's advisor for more information.

Transfer of Credits to Bachelor's Degree Programs
Lower division college credits in technical areas not generally applicable at the bachelor's degree level will be reviewed according to any or all of the following factors prior to their acceptance as satisfying degree requirements.

• Breadth, depth and rigor of course content as evidenced by course syllabi, prerequisites, placement test scores, exit requirements, student portfolios, textbooks, writing or oral communication requirements, grading standards, catalog descriptions, etc.;
• Qualifications of the faculty member(s) providing the instruction;
• Age of credits;
• Recommendations through other established credit assessment bodies (e.g., ACE);
• Institutional accreditation via other professional assessment/accrediting bodies (e.g., AMA, NLN, state agency);
• Secondary documentation of course competencies (e.g., professional certification, standardized exam scores, etc.).

Where questions of applicability remain following such review, the credits may still be used to meet lower division degree requirements subject to one or more of the following conditions:

• Successful completion of related higher-level courses in the student’s program of study;
• Successful completion of subsequent courses in the subject/course sequence;
• Successful completion of complementary lower division coursework in the subject or related area;
• Demonstration of specific lab/clinical skills or other applied competencies;
• Completion of additional supplemental independent/directed study in the subject area which augments the skills/content of the technical course;
• Presentation of a portfolio of work substantiating the breadth, depth and rigor of the course content to include both theory and applied competencies;
• Analysis of clusters of course credits where a combination of technical courses may represent bachelor's level competencies when viewed as a package (e.g., eight credits in technical coursework may correspond to a three credit traditional transfer course in a given subject area);
• Verification of faculty credentials at the transferring institution.

Second Bachelor's Degree
In recognition that students seeking a second bachelor's degree have completed a rigorous program of study at a regionally accredited or comparable international institution, some admission and graduation requirements will be satisfied by virtue of the previous degree. These include Gordon Rule and General Education. However, this would not preclude prerequisites for the major that happen to be general education courses. Students with one or more previously awarded bachelor's degrees should contact the Bachelor’s Admissions Office for admissions guidelines.
READMISSION OF FORMER STUDENTS

A former Palm Beach State College student who wishes to enroll in classes after an absence of 12 months or more should:

- Submit an online application for admission.
- Send for any additional transcripts (if seeking degree or if necessary to satisfy prerequisites) to update admission records. Previously outstanding transcripts must be received prior to registration. All new transcripts should be received before registration but must be received within one term or the student may not register for subsequent terms. A student will not be eligible to receive financial aid or scholarships until Palm Beach State receives and evaluates official copies of all transcripts.
- Update placement tests (ACT, SAT, Accuplacer or PERT) if necessary. Test scores are only valid for two years from the date the test was taken.
- Read the “Catalog in Effect” information under the “Graduation” portion of the Academic Policies section of the catalog. (The student will complete requirements for graduation under the catalog in effect at the time of re-entry.)

Note: Students who do not apply for readmission approximately two months before registration begins may not get priority registration consideration.

TRANSFER STUDENTS

A student is classified as a transfer student if he/she has previously registered at any other regionally accredited college or university, regardless of the amount of time spent in attendance or credit earned. A transfer student should:

- Submit an online application for admission.
- Submit high school and, if applicable, all college transcripts. Students with college credit from colleges outside the U.S. must have a course-by-course commercial evaluation from an accredited company at www.NACES.org/members.htm or IES.AACRAO.org.

All transcripts must be received within one term or no registration will be allowed for subsequent terms. It is important for students to have transcripts submitted as early as possible to allow evaluations to be completed before registration. Financial aid students must have ALL official transcripts (high school and college) and ALL commercial evaluations received and evaluated by Palm Beach State before any financial aid can be awarded or disbursed.

Transfer credit may be accepted from degree-granting institutions that are fully accredited at the collegiate level by their appropriate regional accrediting agency. Courses from non-regionally accredited institutions that appear on the State Common Course Numbering System list are also transferred with no appeal required. For non-regionally accredited institutions that do not participate in the SCNS, credits will be evaluated and accepted on a course-by-course basis through an appeals process that is initiated by the student.

Students may transfer credit from other institutions into the College; however, at least 25 percent of the program or certificate credit must be earned at Palm Beach State College (excluding CLEP or credit by exam or prior learning).

The amount of credit allowed for a quarter, semester or term would not exceed the amount the student earned at the original institution. (Quarter-hour credits will be converted to semester hours.)

All grades, including failing grades, from other colleges are considered in calculating the cumulative grade point average for student standards of academic progress and for meeting graduation requirements. However, only courses with grades of D or higher are considered for awarding transfer credit. Courses with a grade of D cannot be used to satisfy General Education requirements. Plus (+) and minus (-) designations used with grades will be removed from all transfer courses.

For detailed information on the College's general credit transfer policies; evaluation and recording of transfer credits; and the appeals process for transfer credit re-evaluation, refer to the Transfer Credit Manual at www.palmbeachstate.edu/Admissions, click on Transfer Students.

Note: A student or institution may appeal the policy. However, the College registrar reviews the courses and has the right not to accept all or any part of the previously earned credit.

NON-DEGREE-SEEKING STUDENTS
Students who wish to take college credit or vocational credit courses and do not intend to complete a certificate or degree program may be admitted as non-degree-seeking students. These students enroll for a variety of reasons, such as personal interest, job improvement, transfer credit purposes, or teacher recertification. Credits will be awarded for courses taken by non-degree-seeking students.

To apply for admission as a non-degree-seeking student, submit an online application for admission.

Students are eligible to remain non-degree-seeking up to 21 credit hours. After that time, they will be required to change their status to degree-seeking. Upon changing to degree-seeking status, high school and college transcripts, as appropriate, will be required. Students with an associate degree or higher may request an exemption from the 21 credit hours requirement. For additional information, please contact a campus registrar. International students on an F-1/M-1 visa cannot be non-degree-seeking students.

Non-degree-seeking students may be required to submit placement scores or transcripts to register for certain courses. Please see the Course Listing section of the catalog, or speak with an academic advisor.

Note: Non-degree-seeking students are not eligible for any type of financial aid (veteran benefits, federal grants, scholarships, student loans, Bright Futures, etc.).

TRANSPORT STUDENTS

Students seeking degrees at other institutions may attend the College as “transient” students to take one or more courses. Transient students are non-degree-seeking at the College and are considered essentially students at their home institutions.

To apply for admission:

- Students attending a Florida public institution must go to www.FloridaShines.org and complete an online transient form which will also serve as the application for admission to Palm Beach State. Residency for tuition purposes will be granted based on the information on the transient form, barring any error from the home institution.
- Students attending a Florida private institution or an out-of-state institution must submit: (1) a completed online application for admission; and (2) a “Letter of Good Standing” from their home institution indicating the specific course(s) to be taken.

Transient students, taking courses as listed on their transient form or letter of good standing, will not be required to submit transcripts or meet Palm Beach State College testing or prerequisite course requirements. However, all corequisite course requirements apply, unless specifically waived by the home institution. Transient students are required to meet all of the College’s Code of Conduct and disciplinary regulations while attending the College.

A “transient form” or “Letter of Good Standing” must be submitted for each term of transient study.

POSTSECONDARY ADULT VOCATIONAL (PSAV)

Admission requirements vary depending on the specific postsecondary adult vocational (PSAV) program. Students must review the criteria for the desired program in the Areas of Study section of the catalog. In general, a person wanting to enroll in a PSAV program must do the following:

1. Submit an online application for admission.
2. Submit an official high school or GED transcript if program requires a standard high school diploma.
3. Take the appropriate test (if applicable) according to the requirements of the program.

Note: Students seeking admission to a Public Safety limited access program (i.e., emergency medical technician, firefighter and paramedic), should go to www.palmbeachstate.edu/Admissions, click on Limited Access Programs. Admission to the College does not guarantee admission to these programs.

HIGH SCHOOL DUAL ENROLLMENT and EARLY ADMISSION

The Dual Enrollment program enables qualified public, private and home-education students in the 10th, 11th and 12th grades to enroll in approved courses offered through Palm Beach State College. Private schools participating in dual enrollment must submit each year a Statement of Legal Compliance form to verify eligibility prior to referring students for dual enrollment. The form is available online at www.palmbeachstate.edu/DualEnroll.
The credits that students can earn count toward both a high school diploma and a college degree or vocational certificate. Students enrolled in a dual enrollment or early admission program pursuant to law shall be exempt from the payment of registration, tuition, and laboratory fees. All other fees are borne by the student, except that the College will offer one free recognized college placement test to each eligible high school student. Students enrolled in home education or non-public school will be liable for the cost of instructional materials, special course fees, and any other fees except tuition.

Dual enrollment or early admission students are responsible for transportation to and from the College; obtaining a College parking decal; purchasing uniforms, kits, equipment, consumables and/or tools that are kept in the student's possession (if applicable in a PSAV program); and adhering to the rules and regulations of the College, as stated in this Catalog and in the Student Handbook.

The following courses are NOT permitted for dual enrollment:

- College developmental education courses;
- Physical education activity courses;
- Courses less than three credits (unless the course is a corequisite or in PSAV dual enrollment);
- ATF or CDO prefix courses;
- Limited Access program courses.

**College Credit Dual Enrollment Requirements**

Students taking college credit course dual enrollment may take up to eight college credits per fall, spring or summer term. Graduating seniors are not eligible to participate in the dual enrollment program during the Summer A session (May – June) following their senior year.

To be eligible for the dual enrollment program, students need to:

- Have completed the high school freshman year (9th grade).
- Have a cumulative grade point average (GPA) of 3.0 or higher.
- Enroll and attend a MANDATORY Palm Beach State Dual Enrollment Information/Advising session prior to registration of class (es).
- Submit an online Palm Beach State Application for Admission.
- Submit official “college ready” placement test scores (ACT, SAT, Accuplacer or PERT) that are less than two years old from the date the test was taken.
- Complete and submit a Dual Enrollment Permission and Registration form, which is obtained from the high school counselor. *(A form must be completed and submitted for each term of enrollment.)*
- Receive a grade of C or higher in all college-level courses to continue enrollment. Dual enrollment students who receive a grade of D, F or W will not be allowed to continue in the program and may only be allowed to repeat the course for grade forgiveness after graduation from high school.

Dual enrollment students may be admitted to College Honors courses or Honors contracts. Interested students should apply at [www.palmbeachstate.edu/Honors](http://www.palmbeachstate.edu/Honors).

**Early Admission Requirements**

To be eligible for the early admission program, students need to:

- Be a high school senior.
- Have a cumulative grade point average (GPA) of 3.2 or higher.
- Enroll and attend a MANDATORY Palm Beach State Dual Enrollment Information/Advising session prior to registration of class (es).
- Submit an online Palm Beach State Application for Admission.
- Submit an official recommendation letter from the high school principal. College credits earned during the early admission period must be used to satisfy graduation requirements from high school, with the high school principal determining how these credits are to be utilized.
- Submit official “college ready” placement test scores (ACT, SAT, Accuplacer or PERT) that are less than two years old from the date the test was taken.
- Complete and submit a Dual Enrollment Permission and Registration form, which is obtained from the high school counselor. *(A form must be completed and submitted for each term of enrollment.)*
• Enroll and maintain at Palm Beach State a full-time status (12-18 college credit hours) for the fall and/or spring terms only.
• Earn a term grade point average (GPA) of 2.0 or higher. Early admission students who receive a grade of D or F may repeat the course for grade forgiveness with permission from the high school dual enrollment designee.

**Collegiate High School**

Palm Beach State Collegiate High School is a dual enrollment school choice option for high school seniors who have completed all requirements for high school graduation other than those which can be satisfied by PBSC courses. Students are enrolled as full-time students at Palm Beach State College’s Palm Beach Gardens campus and earn 30 or more semester hours of college credit.

The Collegiate High School is open to high school seniors who:

• Have an unweighted high school GPA of a 3.2 or higher.
• Have the minimum test scores listed below:
  • SAT – 440 or higher (verbal/reading) and 450 or higher (math); or
  • ACT – 17 or higher (English), 19 or higher (reading) and 20 or higher (math)
• Have completed all requirements for high school graduation other than those which can be satisfied by PBSC courses.

To apply for admission, students must:

• Submit a Collegiate High School Choice Application.
• Enroll and attend a MANDATORY Palm Beach State Dual Enrollment Information/Advising session prior to registration of class (es).
• Submit an online Palm Beach State Application for Admission.
• Submit official ACT or SAT test scores.

**Postsecondary Adult Vocational (PSAV) Dual Enrollment Requirements**

Palm Beach State offers the following PSAV programs for dual enrollment at the Belle Glade location: Heavy Equipment Mechanics and Welding Technology. Dual enrollment students wishing to enroll in one of these programs must:

• Have a 2.0 or higher unweighted GPA.
• Be the appropriate age (if applicable for the program).
• Enroll and attend a MANDATORY Palm Beach State Dual Enrollment Information/Advising session prior to registration of class (es).
• Submit an online Palm Beach State Application for Admission.
• If applicable, take and pass the Test of Adult Basic Education (TABE). Refer to TABE Test Requirement for PSAV programs in this section of the catalog for the list of TABE exemptions.
• Complete and submit a Dual Enrollment Permission and Registration form, which is obtained from the high school counselor. *(A form must be completed and submitted for each term of enrollment.)*
  • **Home education students** must complete and submit a Dual Enrollment Permission and Registration form, which is obtained from the Palm Beach State College dual enrollment coordinator and a Home Education/Dual Enrollment/Early Admission Legal Compliance and Articulation Agreement form. *(Both forms must be completed and submitted for each term of enrollment.)*
• Enroll in an approved PSAV program.
• Meet all PSAV program prerequisite requirements.

Courses within a program are sequential and are not available to students who have not been accepted into the program. Students participating in PSAV dual enrollment must successfully complete each PSAV course in the program sequence to continue participation.

**Withdrawal Policy for Dual Enrollment Program**

Dual Enrollment students who withdraw from a class will not be allowed to enroll the following semester. To re-enroll in the Dual Enrollment program, after one semester, students must appeal to their respective high school principal.

Placement Testing
REQUIREMENTS FOR CREDIT COURSES AND PROGRAMS

Unless a student qualifies for an exemption as outlined below, all degree-seeking and non-degree-seeking students wishing to take Gordon Rule writing and mathematics courses must furnish official test scores from one of the following state-approved placement tests: PERT, Accuplacer, ACT or SAT. Test scores expire two years from the date of the test.

Important: To enroll in any general education mathematics course, all students (exempt or non-exempt) must have adequate placement test scores or a grade of C or higher in the required prerequisite course(s).

The Florida Commissioner of Education and the State Board of Education determine the entry-level test cutoff scores. Higher placement test scores place students into regular or advanced courses, while lower scores require students to be placed into developmental education courses. Test Score Charts.

Students who are not exempt from placement testing (see exemptions below) and have not taken any of the above tests, or whose test scores have expired, or whose ACT or SAT scores do not meet the state-designated minimums, must take the PERT for placement. The fee for the first PERT exam taken at Palm Beach State is included in the application fee. Students must pay the application fee before taking the exam. A retest fee is charged for any subsequent testing. For more information, visit www.palmbeachstate.edu/Testing.

Placement Test Exemptions

Students are exempt from the placement test requirement if they provide the appropriate documentation showing that they:

- entered 9th grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a Florida standard high school diploma; or
- are serving as an active duty member of any branch of the U.S. Armed Services; or
- have official test scores (ACT, SAT, Accuplacer or PERT) that are less than two years old from date test was taken and scores meet the state-designated minimums for college-level English and mathematics courses; or
- have successfully completed college preparatory or developmental education course requirements in English, reading and mathematics; or
- provide proof of successful completion (grade of C or higher) of college-level English and mathematics courses from a regionally accredited college or university.

Note: Students who are exempt may request to take the PERT or to enroll in developmental education if they wish. Exempted students are strongly encouraged to meet with an academic advisor, prior to enrollment of classes, to assist them in evaluating their college readiness level.

PLACEMENT INTO DEVELOPMENTAL EDUCATION COURSES

- Test scores expire two years from the date of the test if a student does not enroll within those two years. Test scores will remain valid and will not expire if a student maintains continuous enrollment (complete one credit course per academic year).
- Students who are required to enroll in developmental education English, reading or mathematics courses must also take and successfully pass the corequisite course, Introduction to the College Experience (SLS 1501).
- Students may register for a course lower than indicated by test scores but not in a higher one.
- Students placed into the college developmental education will be allowed three attempts to complete each subject area. However, the tuition fee for the third attempt will be subject to the full cost of instruction (out-of-state tuition fee).
- Students who are required to enroll in the college developmental education English/Reading course cannot enroll in any Gordon Rule writing course until the requirement has been successfully satisfied. Students who test into college developmental education mathematics cannot enroll in any course for which mathematics is a prerequisite until college developmental education math is successfully satisfied.
- Students are not permitted to audit college developmental education courses.
- Students must wait 30 days before retesting in a subject area. Students currently enrolled in a college developmental education course may not attempt to test out of that area after the add/drop deadline.
- College developmental education courses shall be graded A, B, C, N (Not Pass). Institutional credits will be granted for each course successfully completed. Institutional credits are not used for graduation or grade point average calculations, but they are used towards assessing full-time academic status.
• All students who test into developmental education courses are strongly encouraged to read the College Readiness section of the Catalog.

**Note:** In the Testing Centers, students may find a list of tutorial services that assist students with placement tests. These services are provided as an alternative remedial option to traditional courses; however, upon completion, students still must score satisfactorily on the placement test in order to place out of college developmental education courses.

**TABE Test Requirement for PSAV Programs**

The TABE is a state requirement for students entering PSAV certificate programs of more than 450 contact hours. Students are required to take the TABE prior to enrolling in the program. Refer to the program information in the Areas of Study section of the catalog for required TABE scores. TABE test scores expire two years from the date of the test. Students must wait 30 days before retaking the TABE at Palm Beach State College. The fee for the first TABE test taken at Palm Beach State is included in the application fee. Students must pay the application fee before taking the test. A retest fee is charged for any subsequent testing.

**TABE Exemptions** -- Students are exempt from taking TABE if they provide the appropriate documentation showing that they:

- entered 9th grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a Florida standard high school diploma; **or**
- are serving as an active duty member of any branch of the U.S. Armed Services; **or**
- have an associate degree or higher; **or**
- have official test scores (ACT, SAT, Accuplacer or PERT) that are less than two years old from date test was taken and scores meet the state-designated minimums for college-level English and mathematics courses; **or**
- have successfully completed college preparatory or developmental education course requirements in English, reading and mathematics; **or**
- provide proof of successful completion (grade of C or higher) of college-level English and mathematics courses from a regionally accredited college or university; **or**
- have passed a state, national, or industry certification or licensure examination; **or**
- are enrolled in an apprenticeship program that is registered with the Florida Department of Education.

Students who are not exempt from the TABE test requirement and do not meet TABE minimum test score requirements will be required to enroll in vocational preparatory (VPI) courses along with their technical courses. For a listing of PSAV programs affected by this policy, visit [www.palmbeachstate.edu/AcademicServices](http://www.palmbeachstate.edu/AcademicServices), click on Curriculum and Programs and then click on TABE Standards.

**Note:** Limited Access programs follow procedures specific to those programs. Exemptions may not be available for all programs.

**Registration Dates**

Students begin registering at different times, depending on their status as degree-seeking and certificate-seeking, non-degree-seeking, transient, noncredit or high school dual enrollment/early admission. Registration windows and other important dates are located on the registration calendars at [www.palmbeachstate.edu/AcademicCalendar](http://www.palmbeachstate.edu/AcademicCalendar).

New students and students returning after an absence of more than one year should apply at least two months before registration begins to receive the earliest possible registration date. All dates are subject to change without notice.

Add/drop dates are listed on students’ schedules. Major session dates also are listed on the registration calendar.

**Prerequisites and Corequisites**

A prerequisite is a course (or equivalent skills or prior experience) that a student must successfully pass (or possess) before enrolling in the more advanced course. A corequisite is a course that a student must take together with a specific course (e.g., a science course with an associated lab). Prerequisites and corequisites are listed, where applicable, with each course’s description in the Course Description section of the catalog.

Students who have completed a prerequisite or corequisite course at another institution must furnish proof before registering for the higher-level course. To appeal the requirements for taking a prerequisite or corequisite course, a
student must obtain approval from the associate dean of the academic department offering the course. Students may not enroll for credit in a course (or prerequisite) for which they have successfully completed a higher-level course in the same logical sequence.

Students may be allowed to pre-register for the next term for a higher-level course while they are currently enrolled in the prerequisite course. However, the registration for the higher-level course may be dropped by the College if the prerequisite course is not completed successfully (with a grade of C or higher).

Fees and Payment

APPLICATION and REGISTRATION FEES

A nonrefundable fee is charged for processing applications, and a one-time fee is charged each term for registration. Some limited access programs charge an additional application fee.

TUITION FEES

The District Board of Trustees establishes tuition annually. The most current tuition fees are listed online at www.palmbeachstate.edu/finance/offices/student-account-services/Tuition-Fees.aspx. In addition, special fees may be associated with some classes and, if applicable, are included in the total cost of the course. All fees are subject to change by action of the Florida Legislature or the District Board of Trustees.

All fees must be paid by the payment due date indicated on the student’s class schedule. A student may not attend classes until his/her schedule is paid. Students will be dropped for nonpayment if payment is not processed by their payment due date. Students dropped for nonpayment after classes have started will not be reinstated into their classes unless there is documented College error.

Students may pay online through PantherWeb, by mail, drop box, or in person. Payments can be made with cash, check, money order, credit or debit card. We accept Visa, MasterCard, American Express, Optima, Discover, JCB or non North American Diners Club. Wire transfers can be arranged through the Cashier’s Office. Students can also authorize Florida Prepaid billing through PantherWeb.

RETURNED CHECKS

In accordance with section 832.05, Florida Statutes, (giving worthless checks, drafts, and debit card orders, etc.), the College reserves the right to take necessary actions by charging the maximum fees allowable by law for returned checks. For more information and returned check fees, visit www.palmbeachstate.edu/catalog/StudentHandbook.

UNPAID ACCOUNTS

Unpaid student accounts, including past due fees or returned checks, will prevent registration, graduation, granting of credit or release of transcript. Amounts remaining unpaid also will be subject to additional collection costs of up to 30% of the principal amount plus costs. Credit Bureau reporting through collection agencies will also occur for delinquent accounts.

SENIOR CITIZEN FEE WAIVER

Per Board of Trustees Policy, 6Hx-18-4.27, senior citizens 60 years of age or older may register each fall, spring, or summer term, for up to two courses per term (maximum eight credits) and receive a 75 percent discount on the cost of tuition and fees (senior citizens pay the remaining 25 percent). Senior citizens will also be required to pay the one-time, non-refundable $40 application fee. Senior citizens using fee waivers may take only full-term (16 weeks) credit courses on an audit basis. No academic credit will be awarded for classes for which the fees are waived. Courses that are part of Limited Access programs or bachelor's level (3000/4000) courses are not eligible for the senior citizens fee waiver. Any specified prerequisites and/or corequisites of courses must be satisfied.

To apply for the fee waiver, senior citizens must:

- Submit an online Palm Beach State Application for Admission if they are a new or readmission student.
- Submit a completed and signed Senior Citizen Tuition Waiver form to any campus Admissions Office on the designated registration day for senior citizens. At this time, the Admissions Office will have the senior citizen complete a Request to Audit form. (A Senior Citizen Tuition Waiver form must be submitted for each term of registration.)
• Register for classes in person only on the designated registration day for senior citizens. Registration will be granted on a “space available” basis (at least one seat available in the class). Senior citizens are ineligible for the tuition waiver if they register for and/or drop the class(es) prior to the designated senior citizens registration date. Please refer to the Registration Calendar for the appropriate term registration dates.

STATE EMPLOYEE FEE WAIVER

Full-time (40 hours per week) employees of the executive, legislative and judicial branches of Florida state government may register per term for a maximum of six credit hours or 180 vocational hours (part of a PSAV program) with tuition waived. The following fees will not be covered by the state employee waiver: the one-time nonrefundable $40 application fee, registration fees, and, if applicable, any per-class special fees and/or lab fees.

To apply for the fee waiver, state employees must:

• Submit an online Palm Beach State Application for Admission if they are a new or readmission student.
• Submit a completed and signed State Employee Tuition Waiver form to any campus Admissions Office on the designated registration day for state employees. (A State Employee Tuition Waiver form must be submitted for each term of registration.)
• Register for classes in person only on the designated registration day for state employees. Registration will be granted on a “space available” basis (at least one seat available in the class). State employees are ineligible for the tuition waiver if they register for and/or drop the class(es) prior to the designated state employee registration date. Please refer to the Registration Calendar for the appropriate term registration dates. Any prerequisites and/or corequisites of courses must be satisfied.

Note: The State Employee Fee Waiver program does not include persons employed by the state university system, the Florida College System (e.g., Palm Beach State College) or local school districts.

Financial Aid

Types of aid available include grants, scholarships, work-study programs and student loans. Grants are based upon financial need and do not have to be repaid. Scholarships do not have to be repaid and are based upon several criteria, including merit, talent and need. The work-study program allows students to earn money for their education through on-campus or community service jobs. Loans are available to parents and students and must be repaid.

Palm Beach State College does not participate in or certify any Alternative Loan Programs.

Please consult the College website for details on specific aid programs from federal, state and institutional sources.

Application for Financial Aid

The Free Application for Federal Student Aid (FAFSA) is the first step in applying for all financial aid and is available online at www.FAFSA.ed.gov. Students need to complete a FAFSA each academic year. Completing the FAFSA correctly prevents delays in the financial aid application and notification process; the toll-free help line is 1-800-433-3243. The Financial Aid Office will use the results of the FAFSA to determine financial need and offer a financial aid award package.

Financial Aid “Priority Dates” are listed in the Financial Aid Office of each campus and online. Your financial aid file must be complete and received electronically by the Financial Aid Office by this date to be considered “on time” for the academic year. Applications received by this date will be given priority when awarding limited funds such as scholarships, grants and on-campus employment. If your FAFSA is selected for verification, it is not considered complete until all verification documents have been returned and reviewed by financial aid staff. Any corrections to the initial application may change and/or delay award eligibility. No funds will be awarded until the Financial Aid Office has completed its review of the information and verified the application; therefore, applicants should submit all requested documentation as soon as possible.

Note: The Financial Aid Office retains the right to request any additional documentation deemed necessary to complete the review or verification of an application.

GENERAL ELIGIBILITY REQUIREMENTS

• Students must have a standard high school diploma or GED.
• The student must be enrolled at the College as a degree-seeking or certificate-seeking student in an eligible program of study to receive a financial aid award. Only courses which apply to the student’s degree at the College may be used to determine enrollment status for federal and state aid programs.
• Students can receive funding from only one school at a time; however, students may be eligible to have award amounts adjusted if they qualify for dual enrollment. See the campus Financial Aid Office for details.
• Students who transfer to Palm Beach State College from any other school beyond high school must provide official transcripts from all schools attended, including high school. The transcripts must be evaluated by the College before financial aid eligibility can be determined.
• Students in default on a federal loan are ineligible for federal and state financial aid.
• Financial Aid will only pay for classes toward students’ program objective. Degree-seeking or certificate-seeking students should meet with an academic advisor or financial aid to verify if the courses which they register for are eligible for financial aid.
• Students should be aware that federal law requires the federal Pell Grant funds to be prorated based on the number of credits taken, and the student financial aid budget also will be reduced accordingly. In addition, to participate in the student loan program, or to have a previous loan deferred, the student must take at least six credit hours. Finally, as always, eligibility for financial aid depends upon meeting Standards of Satisfactory Academic Progress (SAP).

IMPORTANT STUDENT RESPONSIBILITIES

• Use PantherWeb regularly to monitor changes in your financial aid and registration status and to maintain your current address, phone numbers and other directory information.
• Open and read all email from the College and other correspondence sent to your permanent address; respond promptly.
• Apply for financial aid each year, and understand renewal requirements for all aid received, including the standards of Satisfactory Academic Progress (SAP). For more detailed information on the SAP standards, visit www.palmbeachstate.edu/FinancialAid.
• Complete all classes for which you are registered each term, and/or understand academic policies and dates relating to dropping courses or withdrawals; be responsible for any unpaid charges following the deduction of all financial aid funds, external payments or similar awards.

Financial Aid Disbursement

Disbursement of financial aid awards to students begins in September for the fall term, late January for the spring term, and June for the summer term. Awards are disbursed when the student has submitted all required information and meets all eligibility criteria, including the Standards of Academic Progress for Financial Aid recipients. Disbursements will continue throughout the semester for eligible students. If the total amount of aid disbursed for the term exceeds the cost of tuition, fees and books (if any), the student may receive a financial aid check for any residual credit balance. Direct deposit is available to all students. The signup form is available on PantherWeb, www.palmbeachstate.edu/Pantherweb.

Enrollment Status

Financial aid awards are subject to change depending on the student’s enrollment status at the time of disbursement; this excludes courses that are not yet in progress. For the purpose of awarding and adjusting financial aid, the following chart is used to determine the enrollment status for financial aid recipients. Most financial aid programs permit part-time enrollment status.

<table>
<thead>
<tr>
<th>Status</th>
<th>Credit Hours Required</th>
<th>Clock Hours* Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>12 or more</td>
<td>450 or more</td>
</tr>
<tr>
<td>Three-quarter time</td>
<td>9 to 11</td>
<td>338 to 449</td>
</tr>
<tr>
<td>Half-time</td>
<td>6 to 8</td>
<td>225 to 337</td>
</tr>
<tr>
<td>Less than half-time</td>
<td>1 to 5</td>
<td>37.5 to 224</td>
</tr>
</tbody>
</table>

* Clock hours are divided by 37.5 to obtain the equivalent credit hour value.

Financial Aid for Students with Disabilities
Students with disabilities are eligible to apply for any and all forms of financial assistance that are available through the College. The Office of Disability Support Services (DSS) has a limited number of scholarships for clients.

Students with documented disabilities may enroll in a less than full-time course load as an academic adjustment to accommodate their disabilities under the Americans with Disabilities Act of 1990 and the regulations accompanying Section 504 of the Rehabilitation Act of 1973. Students are encouraged to discuss full-time course load requirements with an academic advisor or student services counselor for their respective program. Additionally, the nature of the disability must warrant the adjustment. A financial aid counselor can determine how a reduced course load will affect their aid.

Gainful Employment

The College is required by federal law, 34 CFR Part 668, to provide information on certificate and diploma programs that prepare students for gainful employment. For more information and the programs affected by this law, visit www.palmbeachstate.edu/AreasofStudy, click on Gainful Employment Information.

Policy on Withdrawals

Financial aid recipients who withdraw from the College (all courses in a given term) or fail to earn a passing grade in at least one course may have to return/repay financial aid funds. Also, withdrawal affects the Standards of Academic Progress for financial aid recipients.

The amount of federal Title IV aid a student must repay is determined by the Federal Formula for Returns of Title IV Funds, as specified in Section 484B of the Higher Education Act. This act also specifies the order of return of the Title IV funds to the programs from which they were awarded. A copy of the complete policy is available on the College website.

Veteran Services

The College is state approved for veterans training. Veterans and eligible dependents who plan to attend under any of the various veterans’ training laws should go to the College's Web page, www.palmbeachstate.edu/VeteransServices, to apply for admission.

Veterans should note that required and/or core courses for some academic programs may be available only at a specified campus. However, the pertinent General Education courses may be taken at any campus. Please see the Veterans Services Web page for details on the various VA Benefits and application instructions.

College Readiness

Palm Beach State College provides a complete program for students to build academic skills for success, whether they are entering from high school or are starting or resuming their college career later in life. College readiness courses in reading, English, mathematics and success skills prepare students for college-level courses.

Any lower-division student may enroll in these classes; however, they are designed especially for students who need some additional skills to be successful in college-level courses in reading, English and mathematics. State law prohibits baccalaureate students from enrolling in college readiness courses. Academic advisors work with these students to design a college readiness plan to help them prepare for college-level work.

COLLEGE READINESS AREAS

The College Readiness program is tailored to each student’s needs. There are several options for college readiness in the areas of mathematics, reading and English. The College Readiness program is designed for students at all levels of college readiness in reading, English and mathematics. For those whose primary language is not English, the program offers English for Academic Purposes foundation courses.

College readiness courses for students whose primary language is English:

- College Reading and Writing (ENC 0017)
- College Grammar Essentials (ENC 0050)
- College Sentence Essentials (ENC 0051)
- College Writing Essentials (ENC 0052)
- College Reading (REA 0056)
College readiness courses for students whose primary language is NOT English:

- Integrated Reading and Writing (EAP 0382)
- Integrated Speech/Grammar (EAP 0388)
- Speaking/Listening 1 (EAP 0400)
- Intermediate Reading (EAP 0420)
- Intermediate Grammar (EAP 0460)

For all college readiness students:

- Developmental Algebra (MAT 0022)
- Developmental Math 1 (MAT 0055)
- Advanced Developmental Algebra (MAT 0056)
- Introduction to the College Experience (SLS 1501). This course is a key course in the College Readiness program. The course teaches study and test-taking skills and time management, and students explore their own learning styles. Many students find the skills they learned in this course to be very valuable to their success in all of their College courses.

COLLEGE READINESS SUPPORT

In addition to the courses, the College offers a complete support network, including academic advising for college readiness students to help in course selection and educational planning.

SUCCESS TIP FOR COLLEGE READINESS STUDENTS

Once the college readiness courses are completed, take the required college-level courses in English (ENC 1101) and mathematics (MAT 1033) as soon as possible to apply the new skills in a college-level course.

English for Academic Purposes-Foundation

The College offers this program for non-native English speaking students who have been placed into this level, prior to taking college readiness courses. The foundation program includes three courses in reading and writing, grammar, and listening and speaking. These courses combine lecture and lab components to meet the specific needs of non-native English speakers. Academic support is provided through tutoring, audio and video technology and interactive computer software in the Student Learning Center/Vocational Preparatory Instruction Lab at each location. Students must successfully complete all three foundation classes before registering for any other classes at the College.

English for Academic Purposes-College Credit

In addition to the foundation and developmental English for Academic Purposes (EAP) courses, the College offers credit-level EAP courses to further develop English language skills for students whose first language is not English.

- Speaking and Listening 2 (EAP 1500)
- High Intermediate Reading (EAP 1520)
- High Intermediate English 2 (EAP 1584)
- Advanced Speaking & Listening (EAP 1600)
- Advanced Reading (EAP 1620)
- Advanced English (EAP 1684)

These courses earn A.A. elective credit that counts toward the Associate in Arts degree. Please see an academic advisor for more information.

Student Learning Center

The Student Learning Center at each campus provides services for all students. The SLC is a highly supportive environment where students can receive additional help through tutoring, individualized instruction and Supplemental Instruction (SI).

The SLC is equipped with computer software and other learning tools to support many credit and college readiness courses. Review materials for standardized tests such as TABE are available. The SLC also provides Vocational Preparatory Instruction (VPI) for students in career certificate programs who need additional skills to pass the TABE test. For more information about the SLC, such as hours of operation, visit www.palmbeachstate.edu/SLC.
Student Services & Student Life

Palm Beach State College strives to provide broad opportunities for the intellectual and cultural development of students in an atmosphere of order and respect. Various student services and organizations are available on each campus, as described in this section.

Academic Advisement

Academic advisors and counselors assist students in designing an educational plan that meets their academic and personal goals. They also serve as a referral source for the many supportive services and resources at the College. Students are urged to maintain contact with their advisors to be certain they are on track to complete their program of study. Students assume ultimate responsibility for course selection. For more information, visit www.palmbeachstate.edu/Advising.

Career Planning and Employment Services

Career services are available online and at each location, where students can visit for an introduction and orientation to career resources. These resources include career advising, computerized career guidance programs, career assessment inventories and a career library for researching occupations and current employment trends. Students can receive personalized information about their interests, abilities and values relating to occupations and educational programs.

Employment services are available to students and graduates, including job search strategies, interviewing and resume writing assistance. Employment advising, workshops and online and printed resources are used to develop effective job search techniques. Students can identify part-time and full-time employment opportunities through the online Career Office, on-campus recruiting and job fairs. Resumes can be posted in the Career Center’s online resume database where employers can search for students meeting their employment needs.

Credit classes in career development and job searching are available to students:

- SLS 1300 Career Self-Assessment - 1 credit
- SLS 1301 Career Development - 3 credits
- SLS 1302 Career Information and Decision Making - 1 credit
- SLS 1303 Job Search - 1 credit

Visit the Career Centers Web page for additional information: www.palmbeachstate.edu/Career.

ELIGIBILITY TO USE CAREER CENTERS

The following persons are eligible to use Career Center services:

- Currently enrolled students in degree, certificate or PSAV programs, credit classes, noncredit professional development courses (i.e., insurance or real estate). Students are eligible for services for the full academic year, even if they enroll for only one term within the year.
- Graduates of Palm Beach State College degree and certificate programs. Former students who complete an associate’s degree, bachelor’s degree, college credit certificate or a PSAV program of 600 clock hours or more are eligible for lifetime access to services. Former students completing PSAV certificate programs less than 600 clock hours are eligible to receive services for one year following receipt of the certificate. After one year, enrollment in another Palm Beach State course or program is needed to receive services.
- Prospective students with applications on file. Transfer students must pay the application fee in order to establish their eligibility.
- Inactive students (those who previously attended Palm Beach State but did not graduate and want to enroll in the upcoming semester or term) must complete an application for readmission as well as meet any additional admission requirements to enroll for the upcoming term. Students may be eligible for limited services until they start classes in the upcoming term.

Center for Early Learning

The College offers an early childhood center at the Palm Beach Gardens campus for the children of students and employees.
The Center for Early Learning in Palm Beach Gardens serves children from age 6 weeks to 5 years. The center offers a play-based, developmentally appropriate curriculum that enriches and enhances the growth of the whole child. Staff members are trained, have a natural affinity for children and are motivated to learn and grow as professionals. The center celebrates and affirms the unique heritage of each family and seeks to work as a team with family, together creating the optimal environment for each child to reach his/her full potential.

Space is limited, and there are usually waiting lists for all age groups. Priority is given to children of students and employees. Students meeting financial requirements may be eligible for reduced fees if funds are available. For additional information, visit www.palmbeachstate.edu/EarlyLearningPBG or call 561-207-5225.

Counseling Center

The College Wide Student Counseling Center provides services and programs to help students maintain their emotional well-being in order to achieve their educational goals. Services are limited to crisis intervention, mental health assessment, brief therapy (four to six sessions) and community referrals.

All services are confidential and free of charge to enrolled students. Services are arranged through the Counseling Center on the Lake Worth campus. For more information or to schedule an appointment, call the center at 561-868-3980.

Disability Support Services

The College is committed to providing full access to all programs, services and facilities for qualified individuals with disabilities as mandated by Section 504 of the Rehabilitation Act of 1973 and by the Americans with Disabilities Act (ADA) Amendments Act of 2008. Services and accommodations are not automatic. It is the responsibility of the student or prospective student to notify the Disability Support Services Office at his/her individual campus of the need for modifications and to provide appropriate written verification by a qualified professional in support of the disability claim. Services cannot be authorized until the documentation has been verified and the student has officially registered with the DSS Office. This voluntary self-declaration procedure is independent from the admissions process itself, and all disability records are treated as confidential and kept separately in the DSS Office.

Students with disabilities are encouraged to meet with the Disability Support Service Manager at their campus before registration. The manager will assist with accommodation needs and coordinate other campus resources to best meet the educational needs of students with disabilities. Visit www.palmbeachstate.edu/Disability for more information.

Ombudsman

The vice president of student services and enrollment management serves as ombudsman for students. This student advocate or his/her office shall assist students in resolving conflicts and in processing appeals through established procedures. The vice president of student services and enrollment management can be reached at 561-868-3142. (See section 1006.51, Florida Statutes.)

PantherCard

The PantherCard is the College's official photo identification card and should always be carried while on campus. A student is eligible for a PantherCard once a credit or noncredit application has been completed. All students are encouraged to obtain a PantherCard by visiting their campus bookstore (or LLRC at the Belle Glade campus). A government-issued photo ID, such as a current driver's license, state ID, or passport, must be presented in order to obtain a PantherCard. The PantherCard serves as a student ID card, library card, and a debit card at the bookstore, cafeteria, and for printing/copying on campus. It is required to access many of the services on campus, including the student learning centers and the wellness centers. Certain programs may require students to display their PantherCard when in class or attending training provided by the College or an off-site location. The first PantherCard is included in a student's fees; however, replacement for a lost, stolen or damaged card is subject to a replacement fee. For more information, visit www.palmbeachstate.edu/PantherCard.

PantherWeb

Students use the College's online Student Services tool, PantherWeb, to pay for tests, add, drop or withdraw from classes, pay tuition, view transcripts and degree audits and change personal information. An assigned student ID and password are given to students when they apply. For more information, visit www.palmbeachstate.edu/Pantherweb.
Student Handbook

All regulations and policies pertaining to student conduct are listed in the Student Handbook located online at www.palmbeachstate.edu/catalog/StudentHandbook. Students are responsible for reading the information in the Student Handbook.

College students are considered to have reached the age of responsibility and discretion. Their conduct, both in and out of college, is expected to be dignified and honorable. Students must realize that the responsibility for their success in college rests largely upon themselves. Each student, by the act of enrolling, is obligated to obey the rules and regulations formulated by the College. Each student is responsible for observing all Board of Trustees’ policies and procedures as published in the Student Handbook, College Catalog and other College publications.

Student Life

ATHLETICS

The College has varsity intercollegiate athletic teams for women (basketball, volleyball and softball) and for men (basketball and baseball). Teams play in the National Junior College Athletic Association, Division I, in the Southern Conference. The College’s athletic programs provide opportunities for students to experience competition, skill development, self-discipline and cooperation. Visit www.palmbeachstate.edu/Athletics for more detailed information.

CENTER FOR STUDENT LEADERSHIP

The Center for Student Leadership focuses on developing a broad range of transferable skills to prepare students for leadership positions within the College as well as the global marketplace. For more information, contact the student life director at 561-868-3842.

INTRAMURAL AND RECREATIONAL ACTIVITIES

Intramural and recreational activities represent a broad selection of individual and team sports. Club sports are also available. Students must tryout, be prepared to play at much higher levels of competition and travel to games outside the College. Opportunities are available for students to participate in all phases of the intramural program, including planning and organizing, competing and officiating.

STUDENT GOVERNMENT

Each campus has a Student Government Association. These groups provide guidance and direction to the student body, develop student programs and activities, promote student involvement, develop positive working relationships and provide students with opportunities to develop and exercise leadership skills. Contact the campus Student Activities office for more information.

STUDENT ORGANIZATIONS AND CLUBS

The College offers assistance in the formation and official recognition of clubs and other organizations of students and faculty who have interests in common. There are well-defined procedures available through the Student Activities office for the establishment and sanctioning of a student club or organization.

To hold office in a student organization, a student must have a minimum 2.0 grade point average (GPA) at the beginning of tenure of office and must achieve a minimum 2.0 GPA during each term in office. Clubs and organizations may have individual membership requirements; students can visit any campus Student Activities Office to acquire specific club requirements.

For the list of sanctioned clubs on each campus, visit www.palmbeachstate.edu/StudentActivities.

Student Publication

The Beachcomber, Palm Beach State College’s student newspaper, is published in the fall and spring terms with an online summer edition. Students are invited to participate in production of the newspaper. Although experience is preferred, a limited number of inexperienced students are accepted as trainees. Students receive practical, on-the-job training in the fields of reporting, advertising, editing, photography and business management. The newspaper office is located at the Palm Beach Gardens campus; email address: beachcomber@palmbeachstate.edu.

Student Success Grants
The College has been awarded several grants to support student success programs.

EDUCATIONAL OPPORTUNITY CENTER

The Educational Opportunity Center is a U.S. Department of Education grant-funded TRIO program. EOC provides assistance and information on college admissions and the financial aid application process to qualified adults 19 and over, who want to enter or continue a program of postsecondary education. Other services include vocational and career counseling, GED preparation, academic advising, financial aid and college admissions workshops. The center assists adults 19 years of age and older who are residents of Palm Beach County who meet federal low-income guidelines and/or are potential first-generation college students. For more information, call 561-868-3681.

STUDENT SUPPORT SERVICES

This program is a U.S. Department of Education grant-funded TRIO program serving 170 low-income, first-generation college students and students with disabilities. Services provided include personalized academic and financial aid advisement, tutoring, career exploration activities, cultural events and university tours. The program assists students in completion and transition from one level of higher education to the next. Students must be enrolled at Palm Beach State College in a degree-seeking program to be eligible for services. For more information, call 561-868-3392.

Testing Services

Test Centers are located on each campus and offer comprehensive testing services for faculty and students. A variety of national and state exams for students, including PERT, LOEP, CLEP, Accuplacer and TABE are administered, in addition to instructor make-up and distance learning exams. The Centers maintain a comprehensive set of standards and adhere to approved policies and procedures to which students are expected to adhere.

For Test Center locations, hours of operation, a listing of exams offered, and policies and procedures, visit www.palmbeachstate.edu/Testing.

Academic Support

Dr. Floyd F. Koch Honors College

As part of its commitment to high achievement, Palm Beach State College offers the Honors College, designed for students who enjoy a challenge and wish to excel in their studies. Students who seek the challenge of Honors coursework can select from two options, Honors courses or an Honors component. The experience of either option helps students to make interdisciplinary and real-life connections and prepares them with skills needed to go on to a university or the workforce.

The first option is enrollment in Honors courses. These learning environments promote the development of critical thinking and research skills through in-depth class discussions, reading and writing assignments, and nontraditional classroom styles and activities. Each course has “Honors” clearly indicated in its title, which is also noted on the student’s transcript.

The second option is to add an Honors component to any credit course, with faculty permission, by completing an Honors project contract. In this case, the student completes an Honors project in the course and meets with the faculty member throughout the term for guidance and advice.

Palm Beach State College students qualify for the Honors College with a cumulative 3.5 GPA or acceptable test scores on a placement test. Students who register with the Academic Services Office are given priority registration as Honors College students. Students who graduate with a 3.5 GPA and have 12 credit hours of Honors coursework completed with a grade of B or higher are designated as Honors Silver graduates. Students who graduate from Palm Beach State College with a 3.5 GPA and have 21 hours of Honors courses (including IDH2105) and have completed other criteria as specified on the Honors website earn Honors Gold. All Honors graduates are given special recognition at the graduation ceremony. Honors graduates have many scholarship opportunities when transferring to an upper division university. Scholarships also are awarded to the top performing Honors College students through the Dr. Floyd F. Koch Honors College Scholarship, the Stewart Scholarship, the Presidential Honors College Scholarship, the Honors College Merit Award and other scholarship programs.

To learn more about the Honors College and its benefits, call Academic Services at 561-868-3892 or visit the website at www.palmbeachstate.edu/Honors.
eLearning
eLearning classes through the Internet provide increased student access through alternative education delivery systems and flexibility of time and location. Online courses promote the integration of technology in the learning environment and the globalization of education through electronic access to information and experts worldwide. The only difference between face-to-face courses and distance learning courses is in the type of course delivery. Course materials are online with the possible exception of testing. Students may contact their professors and other classmates via telephone, email, chat rooms, bulletin boards, or in some instances, on-campus meetings.

These courses have the same educational objectives as face-to-face classes, are fully accredited and appear on a student’s transcript the same as a face-to-face class. Additional fees are required. For more information, go to www.palmbeachstate.edu/eLearning or send an email to elearning@palmbeachstate.edu. Students logon to https://palmbeachstate.blackboard.com for online courses.

WHO SHOULD TAKE AN eLEARNING CLASS?
Successful eLearning students need to be highly motivated and have good study and time management skills. They must be willing to contact their faculty/instructor for assistance when needed and be responsible for completing assignments on time and without reminders. Before students register for their first eLearning class, they should visit www.palmbeachstate.edu/eLearning or contact an academic advisor for any questions regarding the requirements of eLearning classes.

SUPPORT SERVICES FOR eLEARNING STUDENTS
Students registered in eLearning courses receive the same support services as on-campus students. These services include registration, advising, financial aid, disabled student services, bookstore services, tutoring, library services and Testing Center services, as well as many others.

INTERNET COURSES
Internet classes offer a world of resources to students who have Internet access. These classes provide some of the materials in an anytime anywhere mode. Students can keep in touch with the faculty/instructor and other students by using the communication tools of the Internet.

Internet courses include:

1. Pure Internet courses are taken entirely over the Internet. On-campus time is NOT required. Some faculty/instructors may request an optional on-campus orientation meeting or testing.
2. Hybrid courses require attendance in a face-to-face classroom in conjunction with activities involving the use of the Internet.
3. Component courses are face-to-face classes supplemented with some Internet activities.

Institute of Excellence in Early Care and Education
The Institute of Excellence in Early Care and Education provides the child care workforce of Palm Beach County with a comprehensive approach to career development. Offerings include an extensive training selection, career advising, scholarships for qualified applicants, and technical assistance for early child care educators. The goal is a quality, seamless professional development system for early childhood personnel entering and exiting the system at any level. A quality assurance system ensures quality of trainers and trainings. The quality assurance system incorporates guidelines and standards for training activities, including a process for approving trainers who meet these standards. The Institute maintains a registry of approved trainers and training. For more information on the Institute’s offerings and support, visit www.palmbeachstate.edu/IEECE.

Institute of Teacher Education
The Institute of Teacher Education at Palm Beach State College addresses the need for teaching professionals in Palm Beach County. The Institute programs, collaborative efforts with the School District of Palm Beach County, include:

- The Teacher Certification Program — a certification pathway for professionals with non-education bachelor degrees.
• The Substitute Teacher Academy — a noncredit program for K-12 substitute teacher preparation consisting of six courses and 45 contact hours. Topics include Introduction to Substitute Teaching, Classroom Management and Control (separate courses for elementary and secondary education), Presentation Techniques, Technology in the Classroom, and Lesson Planning.

• Professional Development — noncredit workshops for Florida Teacher Certification Exam preparation and credit courses for ESOL compliance.

Scholarships may be available for some programs. To find out more about the Institute of Teacher Education, visit www.palmbeachstate.edu/programs/TeacherEd.

Library Learning Resource Centers

Library services and resources support the curriculum, faculty and students at all locations. Campus libraries maintain a diverse collection of materials that includes books, periodicals, local, state and national newspapers, microfilm and reference materials. Access to all library materials and electronic collections of books, periodicals and journals is available through LINCC (Library Information Network for Community Colleges), the online catalog. More than 150 full-text databases and eBooks are available online. The Collection includes 190,000 volumes, over 100,000 eBooks and 50,000 ejournals (both online and digital), and 250 periodicals. Florida Atlantic University provides Palm Beach State College at Boca Raton with library service through a joint-use agreement.

Librarians are faculty members who are professionals in the research process. They work closely with students in finding and using information and developing information literacy skills. Librarians offer individual and classroom instruction in the use of resources and work collaboratively with other faculty to develop innovative approaches to using library resources. Librarians teach credit courses in the use of electronic resources and teach online courses using the latest technology.

Additional services provided by the library include: an interlibrary loan service that links all Florida community college libraries, universities and public libraries together for cost-free lending/borrowing of materials; a reserve collection of materials; a computer/instruction lab; study rooms and private study areas; photocopiers, and a virtual reference desk (Ask-a- Librarian). Students also have borrowing privileges at FAU and with area libraries that are members of the Southeast Florida Library Information Network (SEFLIN).

Library hours vary on each campus and between terms. For more information, visit www.palmbeachstate.edu/Library.

Vocational Preparatory Instruction Lab

The Vocational Preparatory Instruction (VPI) Lab offers a series of short-term courses for PSAV students who need to remediate all or part of TABE. Students enrolled in Trade and Industry programs who require TABE remediation will be required to register for corequisite VPI courses. Taking the TABE is a requirement to complete any PSAV program that is 450 or more hours in length.

The VPI Lab offers personalized instruction with learning specialists and tutors. Computer programs and additional learning materials are available for the student.

The TABE remediation courses are:

• VPI 0100 - Vocational Preparatory Reading
• VPI 0200 - Vocational Preparatory Mathematics
• VPI 0300 - Vocational Preparatory Language

Before registering for a TABE remediation course, a student should first meet with a PSAV advisor to discuss the entrance requirements for his or her specific program. Students should then visit the VPI Lab, www.palmbeachstate.edu/SLC/TABE-VPI.aspx, for course schedules and further information.

Academic Policies

Class Attendance

Students are expected to attend all of their scheduled classes. For eLearning classes, students are expected to regularly log in to access the class website and participate in the course according to the schedule of events outlined
by the faculty/instructor. Any class session or activity missed, regardless of cause, reduces the opportunity for learning and may adversely affect a student's achievement in the course.

Specific attendance and grading requirements for each course are stated in the respective course syllabus. These requirements may vary from course to course, and it is the student's responsibility to read and adhere to the policies set forth by each class faculty/instructor. Students should seek any needed clarification from the class faculty/instructor.

“NEVER ATTENDED” STATUS

Palm Beach State College's faculty/instructors are required by federal law and various agencies (i.e., Federal Financial Aid Title IV, Veterans Affairs, SEVIS, INS), to confirm class attendance of students. Students who never attend a class during the add/drop period plus eight (8) days after add/drop, will be withdrawn from the class by the faculty/instructor. Students who are withdrawn as never attended will be financially responsible for the class and a final grade of W will appear on their transcript.

A never attended status may cause a student's financial aid funds or veteran benefits to be adjusted or rescinded. For more information, please review the online attendance reporting procedure.

FACULTY/INSTRUCTOR WITHDRAWALS

Faculty/instructors may give a non-punitive WX grade for excessive absences for up to 65 percent of the course session. No WX grades shall be given after 65 percent of the course has elapsed and students will receive a grade for the course. A faculty/instructor withdrawal may also affect a student's financial aid status.

Courses taken for audit are subject to the same attendance criteria. A faculty/instructor may withdraw an audit student (XW) for failure to adhere to the attendance requirements of the course.

Note: Upon the third attempt of a credit course, a withdrawal (student or faculty/instructor) or audit will not be permitted and the student will receive a grade for the course.

Enrollment Status

CLASSIFICATION OF STUDENTS

Students are classified according to the number of college-level credits they have completed, regardless of the number of terms the student has been in attendance.

Lower Division (1000-2000 level coursework)
- Freshman: Less than 24 college-level credits
- Sophomore: 24 or more college-level credits

Upper Division (3000-4000 level coursework)
- Junior: 61-89 college-level credits
- Senior: 90 or more college-level credits

FULL-TIME STUDENT

A student is considered a full-time student when enrolled in 12 or more semester hours of credit or 360 or more clock hours. Although audit and institution credits (i.e., college developmental education courses) carry no credit, they are counted when determining a student's enrollment status. For Selective Service deferment or Veterans Administration benefits, noncredit and college developmental education courses cannot be counted when determining a student’s enrollment status, but must be taken if required.

Note: Enrollment status may be defined differently for financial aid recipients.

STUDENT MAXIMUM COURSE LOAD

Most students are not permitted to enroll in more than 18 semester hours; however, a student who has at least a 3.2 cumulative average may enroll in a maximum of 21 semester hours.

ENROLLMENT VERIFICATION
Palm Beach State College has authorized National Student Clearinghouse to provide enrollment verification certificates for its students through its online Student Self-Service program. This service, available 24 hours, 7 days a week, will allow students the ability to print, save, or email official enrollment verification certificates free of charge. For more information, visit www.palmbeachstate.edu/Admissions.

Academic Recognition

PRESIDENT’S LIST

At the end of each fall or spring term, a student carrying a full academic load (12 hours for which they receive credit, excluding institutional credit) and earning a term grade point average of 3.8 or higher will be placed on the President’s List. At the end of the spring term, a part-time student who has accumulated 12 or more semester hours credit during the combined fall and spring terms with a combined term grade point average of 3.8 or higher will be placed on the President’s List.

DEAN’S LIST

At the end of each fall or spring term, a student carrying a full academic load (12 hours for which they receive credit, excluding institutional credit) and earning a term grade point average of 3.20 to 3.79 will be placed on the Dean’s List. At the end of spring term, a part-time student who has accumulated 12 or more semester hours credit during the combined fall and spring terms with a combined term grade point average of 3.20 to 3.79 will be placed on the Dean’s List.

Standards of Academic Progress

The College requires each student to maintain reasonable academic progress. Any student not maintaining the minimum cumulative grade point average as specified in the Standards of Academic Progress (SOAP) policy will be placed on academic probation and could be either suspended or dismissed from the College.

Financial Aid Student Note: Students receiving financial aid are also affected by a separate “Satisfactory Academic Progress (SAP) for Financial Aid Students” listed in the Student Handbook and online at Financial Aid.

Developmental Education Course Note: Developmental education courses will not be calculated in students’ cumulative grade point average but will be used in calculations for term grade point averages.

Good Academic Status

Students who are not on academic probation or dismissal from the College are considered in good academic status. Students in credit programs must maintain a cumulative grade point average (CGPA) of:

- 1.4 or better for 1-14 semester hours attempted
- 1.6 or better for 15-27 semester hours attempted
- 1.8 or better for 28-45 semester hours attempted
- 2.0 or better for over 45 semester hours attempted

Academic Status Note: The College administration will continually assess the impact of the academic progression policy and make adjustments as necessary to the academic probation grade point average table above. It is anticipated that the cumulative grade point average required to remain in good academic standing will increase in the future. Therefore, it is imperative that students meet with an academic advisor regularly to discuss academic success issues and support services and to carefully plan their academic program.

Academic Probation

Probation will be continued as long as the student fails to achieve the standard cumulative grade point average (CGPA) for the number of hours attempted (see section above). Probation will be calculated at the end of each term. Transfer students whose CGPA does not meet the standard for good academic status will enroll on academic probation. Any student on academic probation will be limited in course load to a maximum of 12 semester hours during the fall, spring and summer terms.

Students on academic probation are required to meet with an academic advisor prior to registering for subsequent terms. Academic advisors are authorized to limit the number of hours and types of courses taken by students on academic probation. Academic probation is noted on the student’s permanent record.
Academic Suspension

Academic suspension is the first involuntary separation. Academic suspension results from a student’s failure, while on academic probation, to regain good academic standing or achieve a minimum 2.0 term grade point average (GPA). Suspension requires the student to stay out of school for one semester to reflect on his/her academic goals and level of commitment to education. Academic suspension is noted on the student’s permanent record. Students readmitted after an academic suspension will be on academic probation and must meet with an academic advisor prior to registering for classes.

Academic Dismissal

Academic dismissal is a subsequent involuntary separation imposed upon a student who, having been previously suspended from the College and readmitted, fails to regain good academic status or achieve a minimum 2.0 term grade point average (GPA) for each academic term. After one calendar year, students on academic dismissal are eligible to appeal for readmission to the College Wide Appeals Committee. Academic dismissal is noted on the student’s permanent record. An appeal for readmission is not automatic and the decision of the committee is final.

Note: Students on academic suspension or dismissal are eligible to enroll in PSAV or avocational courses.

Grades

GRADE REPORTS

Grade reports are not mailed; students may access their grades at the end of each session or term on Pantherweb, or on the Florida Virtual Campus website, www.FloridaShines.org. Students may also assess their academic progress and status for each term by obtaining an online degree audit on PantherWeb.

GRADING SYSTEM

Final grades for each term are recorded and retained permanently. The following grades are used to calculate the grade point average (GPA):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B*</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C*</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
</tbody>
</table>

*Grades in college developmental courses are not used to calculate the GPA.

The following grades are not used to calculate the GPA:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>L</td>
<td>Instructor Grade Late</td>
</tr>
<tr>
<td>N</td>
<td>No Pass</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>W</td>
<td>Student Withdrawal or Never Attended Class</td>
</tr>
<tr>
<td>WA</td>
<td>Administrative Withdrawal</td>
</tr>
<tr>
<td>WX</td>
<td>Withdrawn by Instructor for Excessive Absences</td>
</tr>
</tbody>
</table>
Most avocational classes will be assigned a grade of NG unless the course requires a record of attendance. In those cases where an NG is not the grade, an S or WX may be issued.

**GRADE POINT AVERAGE (GPA)**

The cumulative GPA is determined by dividing the total quality points earned by the total semester hours attempted (including all transfer credit). Quality points are assigned as follows:

- A = 4 quality points per credit hour
- B = 3 quality points per credit hour
- C = 2 quality points per credit hour
- D = 1 quality point per credit hour

Only the last attempt of a repeated course will be used in computing the grade point average (except for the third attempts and beyond that will be averaged); however, all grades appear on the student’s transcript. The Palm Beach State College grade point average is determined by dividing the total quality points earned at the College by the total semester hours attempted at the College. The term grade point average is determined by dividing the total quality points earned during a term by the total semester hours attempted during that term.

**GRADE CHANGE PROCEDURE**

Students may approach a faculty/instructor to initiate an informal grade appeal process at any time after the final course grade is assigned. If students wish to appeal the grade further, a formal grade appeal process must be initiated no later than the 10 business days after classes begin in the following fall or spring term. Additional grade appeal information is listed in the Student Handbook.

**GRADE FORGIVENESS POLICY**

In accordance with Florida State Board of Education Administrative Rules, Chapter 6A-14.0301, courses for which a grade of C or higher was earned may not be repeated. Students may attempt a course only three times. All grades for the course will appear on the student’s transcript, but only the last grade received will be used to calculate the grade point average (GPA), even if that grade is lower.

Permission for a fourth attempt will be considered only through an academic appeals process based on major extenuating circumstances. However, in the case of a fourth attempt, the grade for the third and fourth attempts will be used to calculate the GPA (grade forgiveness will not apply to third and subsequent attempts). The appeal request for a fourth attempt must be submitted in writing and accompanied by supporting documentation to the College-Wide Appeals Committee. Palm Beach State does not permit the appeal for fifth attempts.

The State’s Articulation Agreement does not allow courses to be repeated for the purpose of changing a student’s grade point average after the associate degree has been awarded; therefore, the College’s Forgiveness Policy pertains only up to the time of the awarding of degree and does not extend beyond that time. Transfer credits earned by prior learning or credit-by-exam programs (e.g., CLEP, AP, IB, etc.) may not be used to forgive a grade. Institutions to which subsequent transfer is made may not necessarily honor Palm Beach State’s grade forgiveness policy.

**INCOMPLETE GRADES**

Incomplete grades are automatically changed to punitive grades of F, N or U if not made up within 30 calendar days after classes begin in the subsequent fall or spring term. (Please see the Academic/Registration Calendar for deadlines.) It is the student’s responsibility to complete all assignments and submit them to the faculty/instructor. Classes with incomplete grades may not be used to satisfy course prerequisites.

**REPEATED COURSES AND ACADEMIC AVERAGE**
Only courses for which a grade of D or F was earned or withdrawals may be repeated. A student may not audit a course in which a grade of C or higher was received. A student will be permitted a maximum of three attempts per course. Attempts include the original grade, repeats of course grades, audits after the add/drop period ends, and withdrawals (student or faculty/instructor). Upon the third attempt of a course, a withdrawal or audit will not be permitted and the student will receive the grade earned. This grade will be used in quality point average computation. All grades from the third and fourth attempts will be calculated in the grade point average.

A fourth attempt may be allowed only through the academic appeals process based on major extenuating circumstances. The appeal request for a fourth attempt must be submitted in writing and accompanied by supporting documentation to the appropriate campus dean of student services. Fifth attempts are not allowed, and this may not be appealed.

Credit can only be earned once per course, unless the course is designated as “repeatable,” such as music, chorus, etc., that have been successfully completed and are now being repeated for further skill enhancement, courses that are required to be repeated by a regulatory agency, or courses that are being repeated as part of a regulatory requirement for continuing education to stay current in a field, such as teacher certification.

Students receiving financial aid or veterans benefits should consult with the Financial Aid Office before repeating a course to determine what impact, if any, repeating a course has on their financial aid status.

Note: Students will be assessed the full cost of instruction (out-of-state tuition), beginning with the third attempt for college developmental education and credit courses. Students may appeal the higher cost to the campus registrar through the add/drop period. Decisions are based on state-issued guidelines.

Audit and Withdrawal Policies

Deadline dates for audit and withdrawal are published in the Academic/Registration Calendar. In cases of non-standard beginning or ending dates, the audit deadline is the last day of add/drop, and the withdrawal deadline is 65 percent of the course session. Students with questions about audit and withdrawal deadlines should contact the Registrar’s Office at any campus location.

Students receiving financial aid or veterans benefits should consult with the Financial Aid Office before auditing or withdrawing from a course to determine what impact, if any, an audit or withdrawal would have on their financial aid status. International students and athletes must get authorization from their advisor before auditing or withdrawing from a class.

AUDITING COURSES

A student may be admitted to certain courses on an audit basis by completing an official Audit Request form and submitting it to any campus Registrar’s Office prior to the audit deadline. Audit requests will not be processed after the add/drop period ends. Classes designated as audit during add/drop do not count as attempts. Students auditing a course must attend class, but they are not required to take tests and examinations. A grade of X will be denoted on the student’s transcript for audit classes. Auditing students may not change their schedule to seek credit in any course in which they are enrolled. Prerequisite requirements and the cost for auditing a course is the same as taking it for credit.

Courses taken for the third or fourth attempt or for high school dual enrollment/early admission may not be audited. Students are not permitted to audit college developmental courses, courses under a selected admission program, or vocational credit or noncredit courses. A student may not audit a course in which he or she received a grade of C or higher. A faculty/instructor may withdraw an audit student (XW) for failure to adhere to the attendance requirements of the course.

STUDENT WITHDRAWALS

Students may withdraw from course(s) online through Pantherweb. A grade of W will be denoted on the student’s transcript for withdrawn class. The deadline to withdraw for each enrolled course is listed on the student’s Class Schedule. Students are permitted a maximum of two attempts and/or withdrawals per course.

There is normally no refund for withdrawals submitted after the add/drop deadline (see the calendar in this catalog for deadlines); however, if a student has certain extenuating circumstances (such as death of family member or personal hospitalization), a refund may be considered. See Refund Appeals policy in the Student Handbook. Students
considering withdrawing from any course are strongly encouraged to speak with an academic advisor to discuss any impact that a withdrawal may have financially or academically.

Certain Limited Access programs prohibit course withdrawals. A student may not withdraw from a PSAV course that meets less than two times. Students should speak with a program advisor for more information.

**Note:** Upon the third attempt, the student will not be permitted to withdraw and will receive a grade for that course.

Alternative Ways to Earn College Credit

Palm Beach State may award credit for certain types of prior learning (outside the traditional classroom) experiences or credits earned through accelerated mechanism exam programs, e.g., Advanced International Certificate of Education (AICE), Advanced Placement (AP), College-Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), Excelsior College Examinations and International Baccalaureate (IB) and UExcel examination (UExcel). Students wishing to have work evaluated for courses completed through online providers should review the Online Course Equivalency Process.

CREDIT BY EXAMINATION

Palm Beach State College follows the guidelines set by the Articulation Coordinating Committee in Florida State Board Rule 6A-10.024(7) for awarding credits to students who have participated in accelerated mechanism exam programs. Credit for all exams is awarded based on the recommendation of the State of Florida Articulation Coordinating Committee.

Students may not receive credit by examination for courses in areas where they have received college credit for equal courses or more advanced work.

Students may earn up to 45 semester hours of course credit through one or more of the mechanisms listed below. A grade of S for satisfactory and no grade points will be assigned for credit hours awarded for credit by examination programs. Students must have official exam results sent directly to the College Registrar’s Office prior to enrollment.

A complete list of the credit-by-exam equivalencies can be found in the College’s Transfer Credit Manual. The score minimums, credit hours and course equivalencies awarded are subject to change for any examination without prior notice.

**Advanced International Certificate of Education (AICE)**

Secondary school students who were enrolled in programs of study offered through the Advanced International Certificate of Education (AICE) program administered by the University of Cambridge Local Examinations Syndicate and have passing scores of A through E are eligible to receive college credit in the appropriate subject areas.

**Advanced Placement (AP)**

Secondary school students who were enrolled in a course offered through the AP program administered by the College Board and have received a score of 3, 4 or 5 on the national exams are eligible to receive college credit in the appropriate subject areas.

**College Level Examination Program (CLEP)**

College credits may be earned through the successful completion of general and subject level examinations. The typical passing score on computer-based CLEP exams for general education purposes is 50, although paper-and-pencil versions will be different.

**International Baccalaureate (IB)**

Secondary school students who have been awarded the IB diploma or non-diploma with passing scores of 4 or higher may earn college credit in the appropriate subject areas.

**Excelsior college examinations (ECE)**

The College follows the guidelines in Florida State Board Rule 6A-10.024 for awarding ECE credits. The minimum grade, credit hours and course equivalencies awarded are subject to change without prior notice.
UExcel examinations (UExcel)

Exams offered in general college subjects developed jointly by Excelsior College and Pearson, a leader in learning products and services.

MILITARY SERVICE CREDITS

The College follows the guidelines in Florida State Board Rule 6A-10.024(12) for awarding credit for Defense Activity of Non Traditional Educational Support (DANTES) exams. The College grants credit for the United States Armed Forces Institute (USAFI) and College Level Examination Program (CLEP). Credit is not granted for USAFI high school or college level GED tests. However, students may use the USAFI high school certification or GED for admission to the College. The College is a Service Opportunity College (SOC) member and uses the American Council on Education (ACE) guidelines in evaluating military learning experiences.

PRIOR LEARNING ASSESSMENT

The assessment for prior learning is designed to recognize the academic value of learning through work experience portfolios, challenge exams, specific high school or PSAV to credit articulation, and health or industry licensure certification. Some credits will be held in escrow until the student has completed at least 25 percent of his/her program credit hours at the College.

Courses awarded through prior learning assessment must be offered as a requirement or an elective in an A.S. degree or vocational credit certificate program at the College. General education, A.A. and bachelor's level courses are not awarded through the prior learning assessment process.

Students may not receive credit by examination for courses in areas where they have received college credit for equal courses or more advanced work.

The fees associated with prior learning vary with the type of assessment. For complete information on the process, visit www.palmbeachstate.edu/Prior-Learning.

CAREER PATHWAY

Career Pathway is a program that recognizes work successfully completed in high school and awards that achievement with college credit. The College has an agreement with the School District of Palm Beach County for awarding college credit for certain high school level courses. To receive credit in some courses, the student is required to complete a portfolio or a challenge examination. For more detailed information, visit www.palmbeachstate.edu/Prior-Learning.

DEPARTMENTAL AND SPECIAL COURSE CHALLENGE EXAMINATIONS

Palm Beach State has identified certain courses within the curriculum as being eligible for earning credit through a challenge examination. If the student achieves a passing score on the examination, credit or hours will be awarded to the student's transcript. For a current list of challenge exams and procedures, visit www.palmbeachstate.edu/Prior-Learning.

**Note:** Students can only take each challenge exam associated with a specific course once.

Graduation

All students, without regard to the degree or certificate to be granted, must meet general requirements for graduation from the College and fulfill all financial obligations to the College. Final responsibility for meeting the requirements for graduation rests with the student. If the student is in doubt about course, program or College requirements, the student should contact an academic advisor for clarification and guidance. Students also are encouraged to periodically check their degree audit located on PantherWeb to verify the status of their degree requirements.

EXCESS HOURS ADVISORY

A state provision affects tuition charges for some students who plan to eventually transfer to a state university for their bachelor's degree. Section 1009.286, Florida Statutes, and Board of Governors Regulation 7.003 establish an "excess hours" surcharge for credit hours beyond 110 percent of the hours required for a bachelor's degree program at a state university. For example, if the program length is 120 credit hours, all credits attempted beyond 132 (which
is 110 percent of 120) may be subject to the excess hours surcharge. The amount of the surcharge is equal to 50 percent of the tuition rate for each credit hour. Course withdrawals and repeats, as well as enrollment in courses not essential to the intended transfer program, may contribute to a potential excess hours surcharge.

To avoid the surcharge and enrollment in nonessential courses, students are encouraged to meet with an academic advisor early, at least by the time the student has accumulated 30 credit hours, and be advised of the admission requirements for their intended major or transfer program.

**LEARNING OUTCOMES FOR DEGREES AND CERTIFICATES**

**Creating a Culture of Evidence**

Palm Beach State College values its central role as a teaching and learning institution, and its mission statement emphasizes the importance of having a responsive curriculum through learning outcomes. Learning outcomes can be thought of as the knowledge, skills and abilities students attain as a result of their involvement in an educational activity.

The learning outcomes approach reflects a conceptual shift towards making learning more meaningful and effective for both students and faculty. It requires that students gain an understanding of the fact that education can enable them to enrich their lives by learning. This is in contrast to the viewpoint that education is a task primarily done to satisfy the demands of others, such as faculty or the institution.

By developing educational experiences based on what students should be able to do with their knowledge, the learning outcomes approach helps faculty, staff and students understand the purpose of any educational activity, program or course.

The College has defined learning outcomes for each degree and certificate it offers. To view these learning outcomes, visit www.palmbeachstate.edu/LearningOutcomes.

**CATALOG IN EFFECT FOR GRADUATION POLICY**

Students who have maintained continuous enrollment have the option of graduating under the catalog in effect at the time they enter the College or any catalog in effect during the student’s continuous enrollment, as long as the catalog chosen is not more than five years old. Continuous enrollment may be maintained by enrollment in one credit or PSAV course for a minimum of one term per academic year.

If students choose a new catalog, all requirements from the new catalog must be met for graduation. If continuous enrollment is maintained for a period of more than five years, the catalog five years previous will be chosen for them, unless students specify otherwise. If attendance is interrupted by 12 months, students must graduate under the catalog in effect when they are readmitted or any future catalog within five years of the date of graduation (as in above statement). The College does not guarantee that courses will always be available. Some courses or programs may be discontinued. The College reserves the right to change the curriculum as necessary.

*Note: Students must graduate under the program requirements in effect the term they enter a Limited Access program.*

**GRADUATION REQUIREMENTS FOR THE BACHELOR’S DEGREE**

- Ensure all required official high school and postsecondary transcripts have been received by the College.
- Complete at least 25 percent of the degree program at Palm Beach State, also known as “courses in residence” (no relationship to in-state resident tuition). Transfer coursework, credits-by-exam, and credits for prior learning cannot be used to satisfy the course residency requirement.
- Complete all course requirements as specified in the program of study published in the effective catalog.
- Successfully complete all courses in the 120 credit hours program.
- Successfully complete the Capstone course requirement at Palm Beach State College.
- Complete all General Education courses AND upper division courses with a grade of C or higher.
- Earn a cumulative grade point average (GPA) of 2.0 or higher in each of the following areas:
  - Demonstrate foreign language competence. The Florida Department of Education has identified the competencies as successful completion of two credits of sequential high school foreign language instruction, or eight to ten credits in one foreign language at the college level or passing scores on the College Level Examination Program (CLEP). Native speakers of another language who can demonstrate proficiency by evidence of a secondary high
school transcript may petition for a waiver. Students should contact the Bachelor’s Degree Programs Office for more information.

- Satisfy all outstanding obligations, financial or otherwise, to the College.

**GRADUATION REQUIREMENTS FOR THE ASSOCIATE IN ARTS (A.A.) DEGREE**

- Ensure all required official high school and postsecondary transcripts have been received by the College.
- Complete at least 25 percent of the degree program at Palm Beach State, also known as “courses in residence” (no relationship to in-state resident tuition). Transfer coursework, credits-by-exam, and credits for prior learning cannot be used to satisfy the course residency requirement.
- Complete all course requirements as specified in the program of study published in the effective catalog.
- Complete a minimum of 36 credit hours of General Education courses and 24 credit hours of elective courses with a grade of C or higher.
- Earn a cumulative grade point average (GPA) of 2.0 or higher in each of the following areas:
  - Foreign Language Requirement - For undergraduate admission to a state university, students must have earned two credits (two years) of sequential foreign language at the high school level. If a student did not complete this requirement while in high school, the requirement can be met through successful completion of eight credit hours in one foreign language or demonstration of proficiency by passing a College Level Examination Program (CLEP) foreign language test. Satisfaction of this university admission requirement may not satisfy a specific university graduation requirement of foreign language for certain majors. Students are encouraged to determine the graduation requirements for the university they plan to attend.
  - Satisfy all outstanding obligations, financial or otherwise, to the College.

**GRADUATION REQUIREMENTS FOR THE ASSOCIATE IN SCIENCE (A.S.) DEGREE**

- Ensure all required official high school and postsecondary transcripts have been received by the College.
- Complete all course requirements as specified in the program of study published in the effective catalog.
- Complete the number of program-specific General Education courses with a grade of C or higher.
- Complete at least 25 percent of the degree program at Palm Beach State, also known as “courses in residence” (no relationship to in-state resident tuition). Transfer coursework, credits-by-exam, and credits for prior learning cannot be used to satisfy the course residency requirement.
- Earn a cumulative grade point average (GPA) of 2.0 or higher in each of the following areas:
  - Satisfy all outstanding obligations, financial or otherwise, to the College.

**GRADUATION REQUIREMENTS FOR THE ADVANCED TECHNICAL CERTIFICATE (ATC), APPLIED TECHNOLOGY DIPLOMA (ATD), OR COLLEGE CREDIT CERTIFICATE (CCC)**

- Ensure all required official high school and postsecondary transcripts have been received by the College.
- Complete all course requirements as specified in the program of study published in the effective catalog.
- Complete at least 25 percent of the degree program at Palm Beach State, also known as “courses in residence” (no relationship to in-state resident tuition). Transfer coursework, credits-by-exam, and credits for prior learning cannot be used to satisfy the course residency requirement.
- Earn a cumulative grade point average (GPA) of 2.0 or higher for all required certificate or diploma program courses in each of the following areas:
  - Satisfy all outstanding obligations, financial or otherwise, to the College.

**GRADUATION REQUIREMENTS FOR THE POSTSECONDARY ADULT VOCATIONAL CERTIFICATE (PSAV)**

- Ensure all required official high school and postsecondary transcripts have been received by the College.
- If PSAV program requires the Test of Adult Basic Education (TABE), the student must qualify for TABE exemption or take the test and achieve the appropriate minimum skill level scores. For required TABE scores, please refer to the Areas of Study for the particular PSAV program.
- Satisfy all outstanding obligations, financial or otherwise, to the College.

**Graduation with Multiple Degrees**

No more than one A.A. degree may be granted. Students who have an A.A. degree or higher are eligible for any A.S. degree upon completion of those degree requirements. Students who have an A.S. or A.A.S. degree are eligible for an A.A. degree upon completion of those requirements. Students with an A.A.S. degree may receive an A.S. degree in the same area upon completion of the additional coursework.
Students seeking an additional bachelor’s degree should contact the Bachelor’s Degree Programs Office for more information.

GRADUATION DISTINCTIONS

The College gives special recognition to students in a degree program (Bachelor's and Associates) who demonstrate outstanding academic performance while working toward a degree. The program for the Commencement Ceremony is printed prior to the recording of final grades for the fall or spring term. As a result, the commencement program will be based on the cumulative GPA achieved at the end of the term prior to the ceremony.

Students who graduate in a degree program with a cumulative GPA of 3.2 or higher will be noted in the Commencement program as graduating with the following distinctions:

<table>
<thead>
<tr>
<th>GPA Range</th>
<th>Distinction</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2 - 3.49</td>
<td>Cum Laude (with Honors)</td>
</tr>
<tr>
<td>3.5 - 3.79</td>
<td>Magna Cum Laude (with High Honors)</td>
</tr>
<tr>
<td>3.8 - 4.0</td>
<td>Summa Cum Laude (with Highest Honors)</td>
</tr>
</tbody>
</table>

Honors graduates will be recognized with the following additional academic regalia to be worn at the Commencement ceremony:

- Dr. Floyd F. Koch Honors College – Medallion
- Dental Honors Society – White stole with blue edging and lilac tassel
- Radiography Honors Society – Gold stole with Greek burgundy letters (Lambda Nu) and maroon tassel
- Respiratory Honors Society – Gold pin
- PSI Beta – Medallion
- Phi Theta Kappa – Gold stole with blue Greek letters and gold tassel with Greek letters
- Phi Theta Kappa (approved officers) – Medallion
- Sigma Beta Delta Honor Society – Medallion; forest green stole with gold/forest green cord and tassel

GRADUATION CEREMONY - COMMENCEMENT

A commencement ceremony is held twice a year, in December (Fall) and May (Spring). During each term, the College will conduct a preliminary review of each currently enrolled student’s degree audit. Students who will be 100% program complete or a potential term graduate at the end of the term will be eligible for graduation. A graduation status notification will be sent to eligible students’ PantherWeb email account inviting them to participate in the Fall or Spring term commencement ceremony.

Students who wish to participate in the commencement exercise must submit a response to the invitation by the established RSVP deadline. For more detailed information, visit www.palmbeachstate.edu/Graduation.

Note: Summer graduates who are in enrolled in the spring term with six credits or less remaining for the completion of their degree program may participate in the spring ceremony. Students wishing to participate should send an email request to the Graduation Office at graduation@palmbeachstate.edu.

DEGREE VERIFICATIONS

Palm Beach State College has authorized National Student Clearinghouse to provide verification of degrees and certificates for its students through its online Student Self-Service program. This service, available 24 hours, 7 days a week, will allow students the ability to print, save, or email official verification certificates free of charge. For more information, on this and other free services provided by the National Student Clearinghouse Self-Service program, visit Admissions-Enrollment Verification.

Security of Student Records

DEFINITION - STUDENT RECORDS

Educational records, including records, files, documents or other materials which contain information directly related to the student, are maintained by the College. These include but are not limited to, applications, test scores, transcripts, photos and correspondence. All received transcripts and documents are the property of the College and may not be copied or transmitted to third parties, except in accordance with state law.

INSPECTION OF RECORDS
Eligible Persons

In compliance with the Family Educational Rights and Privacy Act (FERPA, also known as the Buckley Amendment), student records at the College (located in the Office of the Registrar) are open for inspection only by the student and, as per FERPA guidelines:

- School officials who have a legitimate educational interest as defined by college policy;
- State educational authorities;
- Federal and state officials representing state or federal programs;
- Persons having written authorization for release;
- Officials in compliance with judicial orders.

Upon request, the College discloses education records without consent to officials of another school in which a student seeks or intends to enroll, or where the student is already enrolled so long as the disclosure is for purposes related to the student’s enrollment or transfer.

Viewing the Records

- Permanent records are never permitted out of the Office of the Registrar.
- Students may view their transcripts from other institutions but may not obtain a copy of the record, except by writing to request a copy from the institution from which the transcript originated.
- Students may make an appointment to view their records at the counter in the presence of Registrar’s Office personnel.

REQUESTS FOR COPIES OF RECORDS

- Palm Beach State College transcripts are released only upon written consent of the student.
- If a student cannot have access to the record, i.e., if he/she lives too far away (minimally outside of Palm Beach County) or extenuating circumstances exist, students may request copies of their records through written requests to the College registrar. The request must specify the types of records to be copied. The registrar will comply with a request for a meeting and/or copies in a reasonable timeframe (no more than 30 business days), depending upon the complexity of the records requested and the time during the term in which the request is received.
- Students will pay a fee of 50 cents per page, up to 49 pages, then $1 per page thereafter for any approved copies of their records.
- Subpoenas of student records must be issued by a court of competent jurisdiction and specify the type of records being requested. A fee of $35 will be charged per subpoena. Those requesting records by subpoena must allow sufficient time (at least 10 business days) for the affected student to be notified prior to the issuance of records.

RETENTION OF RECORDS

Student records will be maintained for a maximum of five years from the student’s attendance. Certain documents, such as grades, will be maintained longer in accordance with state archiving and records retention laws and the College Registrar Records and Retention Schedule.

STUDENT DIRECTORY INFORMATION

The College abides by federal and state regulations regarding the privacy of student records and complies with the laws regarding access procedures.

The Federal Education Rights and Privacy Act (FERPA) requires each institution to determine "directory information" that may be released without the student’s consent, unless the student has specifically requested that some or all of the information not be released. Palm Beach State has classified the following as directory information:

- Student name
- Personal email address (non-institutional)
- Dates of attendance (session dates only)
- Major field of study
- Weight and height of members of athletic teams
- Degrees and awards received
- Most recent prior educational institution attended
If a student does not wish to have the directory information released, the student must complete and submit a non-disclosure form indicating which of the above items are not to be released. The non-disclosure form is located on Pantherweb. (Log into PantherWeb and click on the “Don’t Share My Information” button, located at the top right corner of the Web page.)

STUDENT RIGHT TO PRIVACY

The College respects students’ personal information and protects information carefully. The student’s Social Security number is not used as a student’s primary identifier (although it is collected); an institutional Student ID number is assigned for student use to access records and receive services.

STUDENT RECORDS AMENDMENT APPEAL PROCESS

If a student believes there is inaccurate, misleading information in the permanent record which is otherwise in violation of the student’s privacy rights, the student should contact the Registrar’s Office to arrange a hearing. A hearing will be conducted according to FERPA.

- The hearing will be within a reasonable period of time after the request is received.
- The student shall be given notice of date, place and time reasonably in advance.
- A written decision shall be made by the registrar within a reasonable period of time after the hearing. The written decision and summary shall be based on evidence presented and reasons for the decision.

Areas of Study

- GENERAL EDUCATION
- DEGREE AND CERTIFICATE LIST
- META MAJORS

Palm Beach State College offers several different types of awards for its academic programs including bachelor’s and associate degrees, certificates and diplomas. This catalog section contains detailed information about each program of study offered by the College. This information is also available at www.palmbeachstate.edu/AreasOfStudy. This website provides the same information on courses included in each program and presents information that complements the presentation in the catalog, such as a suggested educational plan (course sequence). The website allows the student to check availability of classes needed for an educational program by linking directly to the College’s online registration system, PantherWeb. Because the web system is dynamic, some courses may have updated course numbers due to State Course Numbering System actions.

DEGREE AUDIT

Another useful online tool students should become familiar with is the degree audit. A degree audit allows your college transcript to be automatically compared against all needed courses for your selected academic program. The degree audit indicates what courses you have satisfied within the program and provides a listing of courses still needed for program completion. The degree audit may be accessed by signing onto the PantherWeb system using the student’s College-issued user-id and password. The degree audit function is located on the Records tab on the student’s home page. For a tutorial on how to run a degree audit, visit the website. The College strongly encourages students to use these online tools in addition to the personalized advising available at each of the college’s campuses and through web advising, www.palmbeachstate.edu/Advising.

DEGREES AND CERTIFICATES

This section of the catalog contains detailed information on the degrees and certificates awarded by the College. These awards are organized by program group, which lists all programs in a curriculum area. For example, all health care programs, such as Nursing and Dental Hygiene, are listed together in a program group called Health Science. The website at www.palmbeachstate.edu/AreasOfStudy is organized in exactly the same way.

Sometimes an academic program leads to a job title or career not indicated by the title of the program. To help the student locate a needed or desired program, the College has developed an online “keyword” search. The student may enter job titles and see what academic program offers education related to that area. For example, if the job title “police officer” is entered, the programs related to the Criminal Justice area are displayed.
Each program contained in this section of the catalog lists all courses needed for program completion. All degree programs require general education courses. To see all general education courses offered by the college, please see the General Education section of this Catalog.

Palm Beach State College awards associate and bachelor’s degrees:

- B.A.S. – Bachelor of Applied Science
- B.S.N. – Bachelor of Science in Nursing
- A.A. – Associate in Art
- A.S. – Associate in Science

The College offers certificate and diploma programs in a variety of fields:

- ATC – Advanced Technical Certificate
- ATD – Applied Technology Diploma
- CCC – College Credit Certificate
- CPP – Certificate of Professional Preparation
- PSAV – Post Secondary Adult Vocational Certificate

Through Corporate and Continuing Education, the College also offers noncredit courses in various fields to meet the learning and professional development needs of the community.

Degrees

BACHELOR OF APPLIED SCIENCE
This degree is designed for students who wish to earn a bachelor’s degree after earning an associate degree (or at least 60 credits with 15 credits of transferable general education) to gain career advancement.

BACHELOR OF SCIENCE IN NURSING
This degree is designed for students who wish to earn a bachelor’s degree after earning an associate degree (or at least 60 credits with 15 credits of transferable general education) to gain career advancement.

ASSOCIATE IN ARTS
This degree is designed for students who wish to transfer to an upper division college or university.

ASSOCIATE IN SCIENCE
This degree is designed for students who wish to enter the workforce in a skilled field.

Certificates and Diplomas

ADVANCED TECHNICAL CERTIFICATE
These certificate programs are designed for students who have already earned an associate degree. They provide advanced skills in a specific area to be studied.

APPLIED TECHNOLOGY DIPLOMA
These programs are either clock-hour noncredit or credit hour based. They provide entry-level courses in a specific area that usually can be applied towards an associate in science degree.

CERTIFICATE OF PROFESSIONAL PREPARATION
A college-level program to prepare baccalaureate degree holders for licensure, certification, credentialing, examinations or other demonstrations of competency necessary for entry into professional occupations.

COLLEGE CREDIT CERTIFICATE
These programs provide the student with a set of technical skills in a specific area of study. Each college credit certificate applies towards an associate in science degree.

POSTSECONDARY ADULT VOCATIONAL CERTIFICATE
These are clock-hour based noncredit programs that provide the student with broad entry-level skills in the chosen field of study. Many of these programs can apply towards an associate in science degree.

META MAJORS
A meta-major is a collection of academic programs that have common or related content, and the intent is for Florida College System institutions to be able to advise associate degree seeking students based on the selection of a meta-
major academic pathway. There are eight meta-majors, and each has gateway courses in English and mathematics that are appropriate for the meta-major. View more details.

General Education

GENERAL EDUCATION REQUIREMENTS FOR DEGREES
General Education is a grouping of courses selected from five different areas to ensure that students receive a well-balanced and rich education. Each degree offered by Palm Beach State College requires General Education courses. The B.A.S., B.S.N. and the A.A. degrees require 36 hours of General Education. A.S. degrees typically require 15 to 18 hours of General Education, but some degrees may have more General Education courses to meet program learning outcome requirements. The student should locate the desired degree program in the catalog or on the College’s website at www.palmbeachstate.edu/AreasofStudy. The appropriate General Education courses are listed within the course listing for the program.

General Education Philosophy

The General Education program at Palm Beach State College prepares students for lifelong intellectual pursuits and responsible participation in a complex global society through a core curriculum that encourages examination of diverse values and perspectives and offers students a depth and breadth of learning that transcends the content of any one specific discipline.

General Education Learning Outcomes

• Communications: Demonstrate effective communication skills for a variety of audiences.
• Humanities: Demonstrate an awareness of and an ability to effectively analyze creative works.
• Mathematics: Demonstrate an understanding of mathematical concepts to solve real-world problems.
• Natural Sciences: Demonstrate comprehension of fundamental concepts, principles or processes about the natural world.
• Social Sciences: Understand and apply sociological, cultural, political, psychological, historical and economic principles to a global environment.

Florida Statute 1007.25 specifies that General Education courses come from five core areas: communications, humanities, mathematics, natural science and social science. In accordance with the state articulation agreement (Florida Administrative Code 6A-10.024), each college and/or university shall honor the completion of the General Education program if such completion is noted on the student’s transcript. The State of Florida requires all public colleges and universities to include a specified amount of writing and mathematics in their curriculum to ensure students have achieved substantial competency in these areas as specified in Florida Administrative Code 6A-10.30. The courses that satisfy this requirement are marked with GR in the listing on this page.

General Education Courses at Palm Beach State College

General Education courses must be completed with a grade of C or higher to apply to any B.A.S., B.S.N., A.A., or A.S. degree program. Each degree offered by the College has its own General Education requirements. Presented below are the General Education course requirements for the B.A.S., B.S.N. and the A.A. degree. Please consult with the FloridaShines.org website or a Palm Beach State academic advisor to determine which general education courses will fulfill the common prerequisite courses needed for your major in the state university system. A.S. students should refer to their specific program of study to determine which general education courses from the list below are required for their program.

AREA I - COMMUNICATIONS 9 CREDITS
TIER 1 - Select one of the following courses:

• ENC 1101 College Composition 1 (GR) (3)

TIER 2 - Select one of the following courses:

• ENC 1102 College Composition 2 (GR) (3)
• ENC 1141 Writing About Literature (GR) (3)

TIER 3 - Students must take the following course:
• SPC 1017    Fundamentals of Speech Communication (GR) (3)

Approved Transfer Composition or Speech*
*(Verify course credit with an advisor)

AREA II - HUMANITIES    6 CREDITS
TIER 1 – Select one of the following courses:

• ARH 1000    Art Appreciation    (GR) (3)
• MUL 1010    Music Appreciation    (GR) (3)
• PHI 1010    Introduction to Philosophy    (GR) (3)
• THE 1000    Theatre Appreciation    (GR) (3)
• LIT 1000    Introduction to Literature    (GR) (3)

TIER 2 - If LIT 1000 is not selected in Tier 1, either an AML, ENL or LIT course must be selected in Tier 2
If LIT 1000 is selected in Tier 1, then any other course other than AML, ENL or LIT must be selected from either Tier 1 or Tier 2

• AML 2010    American Literature to 1865    (GR) (3)
• AML 2020    American Literature after 1865    (GR) (3)
• AML 2600    African American Literature    (GR) (3)
• AML 2631    Hispanic American Literature    (GR) (3)
• AML 2660    Jewish American Literature    (GR) (3)
• ARH 2050    Art History: Ancient to Renaissance    (GR) (3)
• ARH 2051    Art History: Renaissance to Contemporary    (GR) (3)
• ENL 2012    English Literature before 1800    (GR) (3)
• ENL 2022    English Literature after 1800    (GR) (3)
• FIL 2000    Film Appreciation    (GR) (3)
• LIT 2050    Survey of Literary Humor    (GR) (3)
• LIT 2370    The Bible as Literature    (GR) (3)
• LIT 2090    Contemporary Literature    (GR) (3)
• LIT 2110    World Literature before the Renaissance    (GR) (3)
• LIT 2120    World Literature after the Renaissance    (GR) (3)
• LIT 2190    Introduction to Afro-Caribbean Literature    (GR) (3)
• LIT 2380    Women in Literature    (GR) (3)
• MUH 2018    History and Appreciation of Jazz    (GR) (3)
• MUT 1001    Fundamentals of Music    (GR) (3)

Approved Transfer Humanities or Literature*
*(Verify course credit with an advisor)

AREA III - MATHEMATICS    6 CREDITS
TIER 1 – Select one of the following courses:

• MAC 1105    College Algebra    (GR) (3)
• MAC 2311    Calculus with Analytic Geometry 1    (GR) (4)
• MGF 1106    Liberal Arts Mathematics    (GR) (3)
• MGF 1107    Finite Mathematics    (GR) (3)
• STA 2023    Statistics    (GR) (3)

TIER 2 - Select one of the following courses OR select another course from Tier 1:

• MAC 1114    Trigonometry    (GR) (3)
• MAC 1140    Precalculus    (GR) (3)
• MAC 1147    Precalculus Algebra and Trigonometry    (GR) (5)
• MAC 2233    Survey of Calculus (for Business Majors)    (GR) (3)
• MAC 2312    Calculus with Analytic Geometry 2    (GR) (4)
• MAC 2313    Calculus with Analytic Geometry 3    (GR) (4)
• MAP 2302    Differential Equations    (GR) (3)
• MAS 2103    Linear Algebra    (GR) (3)
Approved Transfer Mathematics*
*(Verify course credit with an advisor)

AREA IV - NATURAL SCIENCES    9 CREDITS

TIER 1 - Select one of the following courses:

• AST 1002    Descriptive Astronomy    (3)
  (Lab AST 1002L optional)    (1)
• BSC 1005    Concepts of Biology (Non-Science Major)    (3)
  (Lab BSC 1005L optional)    (1)
• BSC 1010 and BSC 1010L    Principles of Biology 1 and Lab    (4)
• BSC 2085 and BSC 2085L    Anatomy and Physiology 1 and Lab    (4)
• CHM 1045 and CHM 1045L    General Chemistry 1 and Lab    (4)
• ESC 1000    Earth Science    (3)
• EVR 1001    Introduction to Environmental Science    (3)
• PHY 2048 and PHY 2048L    General Physics with Calculus 1 and Lab    (5)
• PHY 2053    General Physics 1    (4)

TIER 2 - Select one of the following courses OR select another course from Tier 1:

• AST 1003    Planetary Astronomy    (3)
• AST 1004    Stellar and Galactic Astronomy    (3)
• BOT 1010 and BOT 1010L    General Botany and Lab    (4)
• BSC 1011 and BSC 1011L    Principles of Biology 2 and Lab    (4)
• BSC 2086 and BSC 2086L    Anatomy and Physiology 2 and Lab    (4)
• BSC 2421 and BSC 2421L    Introduction to Biotechnology and Lab    (5)
• CHM 1025    Introductory Chemistry    (3)
• CHM 1032    Principles of Chemistry    (3) (Lab CHM 1032L optional)    (1)
• CHM 1046 and CHM 1046L    General Chemistry 2 and Lab    (4)
• GLY 1000    Descriptive Geology    (3)
• HUN 1201    Elements of Nutrition    (3)
• MCB 2010 and MCB 2010L    Microbiology and Lab    (4)
• OCE 1001    Introduction to Oceanography    (3) (Lab OCE 1001L Optional)    (1)
• PHY 1001    Applied Physics    (3)
• PHY 2049 and PHY 2049L    General Physics with Calculus 2 and Lab    (5)
• PHY 2054    General Physics 2    (4)
• PSC 1341    Physical Science for Today’s World    (3)

TIER 3 - Select one of the following courses:

• HSC 1101    Contemporary Issues in Health    (GR)    (3)
• HSC 2100    Health Concepts and Strategies    (GR)    (3)

OR

• Select ANY OTHER 3-5 credit general education course from among the five categories of general education

Approved Transfer Science*
*(Verify course credit with an advisor)

AREA V - SOCIAL SCIENCE    6 CREDITS

TIER 1 - Select one of the following courses:

• AMH 2020    US History from 1865 to Present    (GR)    (3)
• ANT 2000    Anthropology    (GR)    (3)
• ECO 2013    Principles of Macroeconomics    (GR)    (3)
• POS 1041    Introduction to American Government    (GR)    (3)
• PSY 2012    General Psychology    (GR)    (3)
• SYG 2000    Introduction to Sociology    (GR)    (3)

TIER 2 – If you selected AMH or POS in Tier 1, select SYG, PSY, ANT, ECO or GEA in Tier 1 or Tier 2
If you selected ANT, ECO, PSY or SYG in Tier 1, select AMH or POS in Tier 1 or Tier 2

- AMH 2010    US History to 1865    (GR) (3)
- GEA 1000    Principles of Geography & Conservation    (GR) (3)
- SYG 1230    American Minorities Today    (GR) (3)
- SYG 2010    American Social Problems    (GR) (3)
- POS 1001    Introduction to Political Science    (GR) (3)
- POS 2112    American State and Local Government    (GR) (3)

Approved Transfer Social Science*
*(Verify course credit with an advisor)
ASSOCIATE IN ARTS

Associate in Arts (Transfer Degree)

Program Description
Palm Beach State College's Associate in Arts (A.A.) transfer degree is designed for the student who plans to transfer to a Florida public university or state college as a junior to complete a bachelor's degree. Students spend the first two years at Palm Beach State, where they prepare for hundreds of possible transfer majors, then their last two years at a university or state college.

During their two years at Palm Beach State, students take the same courses that they would take as a freshman or sophomore at a university. That means a student plans his/her program of study around a planned major or career and the state university or state college he/she wants to attend. A student graduates with an A.A. degree from Palm Beach State, transfers to a university or state college, and earns a bachelor's degree in one of hundreds of different major areas available at the state universities/colleges.

The A.A. degree requirements include:

- 36 credit hours of General Education courses and
- 24 credit hours of university transfer program courses.

It is important that a student select appropriate courses in both the General Education and university/college transfer program areas. A Palm Beach State advisor can assist with course selection, or students can use the FloridaShines.org on-line system, as detailed in this catalog section. The Associate in Arts degree contains 36 hours of General Education. Each A.A student must complete these courses with a “C” or higher to meet graduation requirements. The student must carefully choose the courses that will satisfy General Education requirements. By checking the FloridaShines.org system, students can determine which courses the university to which they would like to transfer accepts as satisfying program requirements. For example, MGF 1106 Liberal Arts Mathematics will satisfy the Associate in Arts degree requirements in mathematics but will not satisfy entrance requirements for a student who wishes to transfer to an upper division business administration program. It is imperative to check the www.FloridaShines.org Web site to find the correct courses, or see a Palm Beach State advisor.

Career Path Notes
Associate in Arts degree transfer programs - State universities/colleges in Florida offer more than 200 different majors that Palm Beach State students can pursue. Before planning a major, students are advised to:

- speak with a Palm Beach State advisor
- consult the catalog or the specific department at the university/college to which they plan to transfer to confirm which courses they should take at Palm Beach State.

All Florida college Associate in Arts graduates are guaranteed certain rights under the statewide Articulation Agreement listed in Florida Administrative Code 6A-10.024. The Articulation Agreement governs the transfer of students from Florida public colleges to the state university system. Guarantee of university/college admission does not guarantee admission to a limited access program. In a limited access program, the admissions requirements are more selective and may include a higher grade point average (GPA), higher test scores, auditions and/or portfolios. Selection for admissions to university/college limited access programs is competitive. However, college A.A. graduates have the same opportunity to enroll in these programs as students who began at the university.

Admission Requirements
Students must:

- Have a standard high school diploma or GED;
- Complete an Application for Admission located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Responsibility for understanding and meeting the requirements for graduation rests with the student. Refer to the Graduation Requirements information provided in the Academic Policies section of this catalog.

Transfer Guidelines
Foreign Language Requirement - For undergraduate admission to a state university, students must have earned two credits of sequential foreign language at the high school level. If a student did not complete this requirement while in high school, the requirement can be met through successful completion of eight credit hours in one foreign language, or demonstration of proficiency by passing a College Level Examination Program (CLEP) foreign language test. Satisfaction of this university admission requirement may not satisfy a specific university graduation requirement of foreign language for certain majors. Students are encouraged to determine the graduation requirements for the university they plan to attend.

Choosing the Proper Courses to Satisfy University/College Admission Requirements - All state universities/colleges have provided lists of courses that meet admission requirements for each of its majors. These lists, also known as “common prerequisites,” detail the required courses needed in both General Education and university transfer program courses. In order to have each course at Palm Beach State count towards A.A. graduation and facilitate transfer to the desired major at the university/college, students should target their desired transfer university/college and major early in their coursework at Palm Beach State. Once a student has identified the university/college and program, finding the correct courses to take at the College can be accomplished by:

1. Meeting on a regular basis with a Palm Beach State advisor who can track your progress and make sure you are taking the correct courses for your desired university and major;

OR

2. Using the Web site developed by the State of Florida to facilitate student transfer called www.FloridaShines.org (a service of Florida Virtual Campus), which is detailed at the end of this section.

Other Transfer Opportunities for the Associate in Arts Degree

Palm Beach State College has transfer agreements with several private colleges and universities from around the nation. Included are all the members of Independent Colleges and Universities of Florida (ICUF). For transfer agreement information, visit www.palmbeachstate.edu/transfer.

Program Length

Students may complete the program in two years if they attend full-time.

Location

The program is offered at all Palm Beach State College campuses.

To see when the course is offered, click the course number. To see a course description, click the course title

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<tr>
<th>Required Courses</th>
<th>Credit Hours:</th>
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<tr>
<td>ENC 1101 College Composition 1</td>
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<tr>
<td>ENC 1102 College Composition 2</td>
<td>3</td>
</tr>
<tr>
<td>ENC1141 Writing about Literature</td>
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<tr>
<td>HSC1101 Contemporary Issues in Health</td>
<td>3</td>
</tr>
<tr>
<td>HSC2100 Health Concepts and Strategies</td>
<td></td>
</tr>
<tr>
<td>Any 3-5 credit hour course from Areas 1 - V</td>
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</tr>
<tr>
<td>SPC 1017 Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>Communications</td>
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</tr>
</tbody>
</table>

Select two courses from AREA II (Humanities) 6

Select two courses from AREA III (Mathematics) 6

Select two courses from AREA IV (Science) 6
Select two courses from AREA V (Social Science) 6

Total General Education Requirements 36

ELECTIVES

Common Prerequisite Courses 24

Total Program Credit Hours: 60

SELECTING COMMON PREREQUISITE COURSES - OVERVIEW OF “FloridaShines” (a services of Florida Virtual Campus)
The FloridaShines online system provides comprehensive access to information for Florida high school and college students. The system, found at www.FloridaShines.org provides the student with access to information on programs and courses at Florida's 28 community colleges and 11 universities. Students can access transcripts and grades, and they can “degree-shop” to see how effectively their credits can transfer to other colleges and universities. To fully appreciate the scope and depth of the information provided, you are encouraged to explore this site. Some of the main topics are listed on the Careers tab.

Career Planning
FloridaShines.org provides career planning tools such as Florida Choices Planner and “FRED” (Florida Research and Economic Database), which provides detailed information on employers, income and wages, geographic area profiles and economic indicators.

High School Planning
This section of FloridaShines.org helps high school students to fulfill graduation requirements, helps students choose a college and provides scholarship information.

College/Vocational-Technical Planning
This section of FloridaShines.org provides comprehensive search capability for finding degree and certificate programs at technical centers, colleges and universities. It also includes links to college catalogs, student services, orientation and information for students with disabilities.

Financial Aid Information
This section of FloridaShines.org provides information on financial aid availability and the ability to apply online for some types of state and federal financial aid.

Admissions
Using the FloridaShines online common admissions application, students can apply to Palm Beach State or to multiple participating Florida colleges at one time. The student will only need to enter his/her personal information once but should keep in mind that most colleges charge application fees. It is important to visit individual Web sites for additional information on specific colleges or universities.

Transfer Services
This section of FloridaShines.org lists transfer requirements for graduating A.A. degree students, a transfer student bill of rights, and what to do if you have difficulty in transferring any courses. In addition, the site contains a transient student form.

College Advising Tools
Currently enrolled, transferring or returning students may be able to access their personal information and utilize the following tools: • Sample Degree Audit, to review requirements of a particular degree program at selected institutions. • Institutional Degree Audit, to compare the student's academic record at his/her home institution to the major currently on record. • Degree Program Shopping, to compare the student's academic record to the particular degree programs at his/her home institution. • Remote Degree Program Shopping, to compare the student's academic record to particular degree programs at another institution. • Planning, to compare the student’s academic record along with courses he/she may want to take to particular degree programs at selected institutions.

College Transcripts & Grades
Currently enrolled, transferring or returning students may be able to access their unofficial Palm Beach State transcript through FloridaShines.org. This transcript is unofficial because it does not contain the official registrar’s seal.
and may not contain test information, enrollment history, major(s), classification, and degrees awarded. However, an unofficial transcript is an accurate list of courses and grades as recorded by the institution.

**Fees & Payments**
This link in the FloridaShines.org system provides access to pay fees online to Palm Beach State.

**Records & Registration**
This link in the FloridaShines.org system provides access to records and registration through the Palm Beach State PantherWeb system.

**Distance Learning**
This section of the FloridaShines.org system provides information on distance learning opportunities through the Florida Virtual School and the Florida Distance Learning Consortium.

**Library Services**
This area of the FloridaShines.org system provides links to electronic library systems such as SUNLINK, the K-12 library system; LINCCWEB, the state college library system; and FCLA, the university library system, along with library links from all Florida institutions.

**Advising Manuals**
The Florida Department of Education publishes several official advising documents and manuals on FloridaShines.org for access by counselors, students and parents. These include the Statewide Articulation Manual, the common prerequisite manual and the Independent Colleges and Universities (ICUF) Articulation Manual.

**How to use FloridaShines.org**
Most of the FloridaShines system does not require a log-in or password; however, applying to a college or university online requires a FloridaShines sign-on. A FloridaShines sign-on is a self-assigned, unique, log-in/password combination that is associated with all student-based personal information entered on the FloridaShines Web site. This sign-on is used to send an online application to Palm Beach State or another Florida college or university. To access their transcripts or run a degree audit, students must use the student ID number and PIN code that they use to register online at the College. The FloridaShines system has online help and a glossary of terms to help users navigate through the system. Palm Beach State student services personnel also can help students learn to navigate the FloridaShines system.
BACHELOR’S DEGREES AND CERTIFICATE

Bachelor of Applied Science

Palm Beach State College offers several different bachelor's degree programs. The degrees are a combination of lower division courses (1000-2000 level) and upper division courses (3000-4000 level).

The lower division course requirements for B.A.S. degrees include:
• 36 credits of transferable general education courses
• 18 transferable credits of concentration area preparation courses
• 24 credits of transferable electives

The Associate degree preparation courses for the B.A.S. concentration areas may come from the student's A.S. or A.A. degree program. These hours must be deemed transferable credit (see "Bachelor Degree Seeking Students" under Admissions & Financial Aid tab to determine the transferability of credit into the bachelor’s degree programs). Please see a bachelor's degree advisor for specific information on how lower division courses meet these requirements and what additional coursework may need to be taken to meet program admission and graduation requirements.

Special Notes
Bachelor's Degree Student Orientation: This orientation must be completed before student is accepted in the program.

General Education. The bachelor's degree requires completion of 36 credits of transferable general education credits, satisfying Palm Beach State College's general education requirements (or indication on the transcript that the student has completed general education requirements at another Florida college or university). Each bachelor's degree has requirements as to the types of acceptable degrees and coursework that may apply to each degree. Please see a bachelor's degree advisor for more information.

The B.A.S. degree in Supervision & Management and the B.A.S. in Information Management upper division course requirements include 21-24 credits of program core courses that all concentration areas of the respective degrees share, and 18-21 semester hours of concentration area courses including a "capstone" course experience where students apply their learning in relation to their concentration area. The lower and upper division courses total the 120 credits needed for bachelor's degree completion.

GRADUATION REQUIREMENTS
Students must:
• Successfully complete all courses in the program. All general education courses and upper division courses must be completed with a grade of "C" or higher.
• Achieve at least a 2.0 grade point average on a 4.0 scale in all course work attempted at the College and at other institutions.
• Demonstrate foreign language competency. The Florida Department of Education has identified competency as successful completion of two credits of high school foreign language instruction, eight to ten credits in one foreign language at the college level or passing scores on the College Level Examination Program (CLEP). Native speakers of another language who can demonstrate proficiency may petition for a waiver. Students should contact the Bachelor's Degree Programs Office for more information.
• Satisfy all financial obligations to the College.

DETAILS OF LOWER DIVISION REQUIREMENTS FOR BACHELOR OF APPLIED SCIENCE INFORMATION MANAGEMENT & SUPERVISION AND MANAGEMENT

<table>
<thead>
<tr>
<th>GENERAL EDUCATION REQUIREMENTS</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>ENC 1101 College Composition 1</td>
<td>3</td>
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<td>ENC 1102 College Composition 2</td>
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<td>HSC 1101 Contemporary Issues in Health</td>
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</table>
-or-
HSC 2100 Health Concepts and Strategies

-or-
Any 3-5 credit hour course from Areas I - V 3
SPC 1017 Fundamentals of Speech Communications 3

Select two courses from Area II (Humanities) 6
Select two courses from Area III (Mathematics) 6
Select two courses from Area IV (Science) 6
Select two courses from Area V (Social Science) 6

**Total Required General Education Credits** 36

**LOWER DIVISION ELECTIVE COURSES** 24

**CONCENTRATION AREA PREPARATION COURSES** 18

**Total Lower Division Credits** 78

*The concentration area preparation courses and the electives may come from the student’s A.S. or A.A. degree program, provided the hours are deemed transferable credit (see the Admissions Section of this catalog for determining the transferability of credit into the bachelor’s degree program). Please see a bachelor's degree advisor for specific information on how your lower division courses meet these requirements and what additional coursework you may need to take to meet program admission and graduation requirements. Each concentration area within the degree has specific courses that must be taken at the lower level to prepare a student for upper division study.

**Bachelor of Science in Nursing**

Palm Beach State College offers several different bachelor’s degree programs. The degrees are a combination of lower division courses (1000-2000 level) and upper division courses (3000-4000 level).

The lower division requirements for the B.S.N. degree include:
- 36 credits of transferable general education courses
- 30 credits of transferable nursing core courses
- 18 transferable credits of common prerequisite courses

The concentration areas preparation courses and the elective courses may come from the student's A.S. or A.A. degree program, provided the hours are deemed transferable credit (see "Bachelor Degree Seeking Students" under Admissions & Financial Aid tab Catalog to determine the transferability of credit into the bachelor's degree programs). Please see a bachelor's degree advisor for specific information on which lower division courses meet these requirements and what additional coursework may be needed to meet program admission and graduation requirements.

**General Education.** The bachelor's degree requires completion of 36 semester hours of transferable general education credit hours, satisfying Palm Beach State College's general education requirements (or indication on the transcript that the student has completed general education requirements at another Florida college or university).

Each bachelor's degree has requirements as to the types of acceptable A.S./A.A.S. degrees and coursework that may apply to each degree. Please see a bachelor's degree advisor for more information. The B.S.N. degree in Nursing upper division requirements include 36 credits. This includes a “capstone” course experience where students apply their learning in relation to their course work.

**GRADUATION REQUIREMENTS**

Students must:

- Successfully complete all courses in the program. All general education courses and upper division courses must be completed with a grade of "C" or higher.
- Achieve at least a 2.0 grade point average on a 4.0 scale in all coursework attempted at the College and at other institutions.
• Demonstrate foreign language competencies. The Florida Department of Education has identified the competencies as successful completion of two credits of high school foreign language instruction, eight to ten credits in one foreign language at the college level or passing scores on the College Level Examination Program (CLEP). Native speakers of another language who can demonstrate proficiency may petition for a waiver. Students should contact the Bachelor’s Degree Programs Office for more information.

• Satisfy all financial obligations to the College.

DETAILS OF LOWER DIVISION REQUIREMENTS FOR BACHELOR OF SCIENCE IN NURSING

GENERAL EDUCATION REQUIREMENTS

(Unless otherwise specified, select courses from each General Education category. See General Education tab under Degrees & Certificates)

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<th>Course</th>
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<td>ENC 1102</td>
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<td>HSC 2100</td>
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<td>—or—</td>
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<td>SPC 1017</td>
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<tr>
<td>Area III (Mathematics) MAC1105 or MGF1106 or MGF1107</td>
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<td>Area III (Mathematics) STA2023 Statistics</td>
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<td>BSC 2085</td>
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<tr>
<td>MCB 2010</td>
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<td>PSY 2012</td>
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<td>Any course from Area V (Social Science) (AMH/POS)</td>
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Total Required General Education Credits 36

Core Nursing courses from A.S. Degree 30

LOWER DIVISION COMMON PREREQUISITE COURSES

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<tr>
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<td>AA Elective Course</td>
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</tbody>
</table>
Certificate of Professional Preparation

Do you already have a bachelor’s degree? If so, the Certificate of Professional Preparation in Project Management may be your ticket to a more satisfying career.

Designed for people with bachelor's degrees or higher, this 100% online certificate program provides the essential knowledge and skills you need to get ahead. All industries strive for optimal performance and seek employees who can deliver results. Project management expertise will increase your value to your company, as well as help you take your career in a new direction.

Many positions require a project management skill set, including:

- Business Analyst
- Business Development Manager
- Business Process Improvement Manager
- Information Technology Manager
- Operations Manager
- Product Manager
- Program Planner
- Project Manager
- Quality Assurance Manager
- Team Leader

This 100% online certificate covers:

- All knowledge areas in the Project Management Body of Knowledge (PMBOK®): project integration, scope, time, cost, quality, procurement, human resources, communications and risk management.
- All phases of a project life cycle from initiation, planning and execution to monitoring and controlling, and last of all, closing.
- Competencies for several certifications including the Project Management Institute's Certified Associate in Project Management (CAPM®) and Project Management Professional (PMP®). Employers look for and value PMI certification.

This program consists of seven online courses. Palm Beach State has been providing online learning for over 10 years. Our experienced instructors make you feel like you're taking real classes...because you are.

Information Management-Database Administration BAS

Information Management - Database Administration Concentration (T801)

Type of Award

- BAS - Bachelor of Applied Science

Program Website

www.palmbeachstate.edu/programs/Bachelor

Program Description

The program is 120 hours in length and articulates from existing Associates in Science/Associates in Applied Science degrees in the computer science field. The core curriculum includes coursework in project management, systems design and programming, business law, finance and business writing.

Admission Requirements

To apply for the bachelor's degree program in Information Management, students must have earned an A.S. or A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do not have an associate degree may be accepted with permission of the dean. This program requires a specific set of prerequisite courses in the computer science discipline. Please see a bachelor's degree advisor for more information on the specific lower-division course requirements. Please see the Admissions section of the catalog for detailed admission requirements for bachelor's degree programs.
Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a "C" or higher in all general education courses and upper division courses. Students must also meet the foreign language requirements. Additional completion information.

Capstone course: The following Capstone criteria must be met prior to registration in the course:
1. All lower division courses are satisfied
2. All upper division common core classes are completed
3. Successful completion of 12-15 credits of concentration area courses
4. Capstone may be taken concurrently with no more than two 3-credit courses and not any upper division common core courses. Restrictions may apply.

Program Length
Total program semester hours: 120

Location
The program is offered at the Lake Worth campus.

For More Information
Richard Chance, chancer@palmbeachstate.edu, (561) 868-4119

To see when the course is offered, click the course number. To see a course description, click the course title.

Courses From A.S./A.A.S. Degree

Program: Data Management & Security

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<tr>
<th>Courses from A.S./A.A.S. Degree (Lower Division Details)</th>
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<tr>
<td>Credits: 42</td>
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General Education Courses

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Upper Division Common Core Courses

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<td>GEB3213</td>
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<tr>
<td>FIN3400</td>
</tr>
<tr>
<td>ISM3113</td>
</tr>
<tr>
<td>ISM3212</td>
</tr>
<tr>
<td>ISM3314</td>
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Concentration Area Required Courses

<table>
<thead>
<tr>
<th>Credits: 18</th>
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<tbody>
<tr>
<td>CTS4425</td>
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<tr>
<td>COP4834</td>
</tr>
<tr>
<td>ISM4213</td>
</tr>
<tr>
<td>ISM4210</td>
</tr>
<tr>
<td>ISM4211</td>
</tr>
</tbody>
</table>
AREAS OF STUDY

ISM4117  Data Mining and Data Warehousing  3
Concentration Capstone Course  Credits: 3
ISM4330  Capstone Experience: Database Administration  3

Total Program Credits: 120

*Courses from existing Supervision & Management BAS degree

Employment Opportunities
As a graduate of this program, students will be prepared to work in information technology-related positions such as Information Technology Managers, Application Programmers, Network Administrators, Database Administrators, Computer Software Engineers, Systems Analysts and Business Analysts.

Career Path Notes
After completion of this program, students may choose to apply for graduate study at a public or private university.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Information Management-Project Management BAS
Information Management - Project Management (T804)

Type of Award
BAS - Bachelor of Applied Science

Program Website
www.palmbeachstate.edu/programs/Bachelor

Program Description
Graduates of this program will have the knowledge and skills to pursue managerial-level positions in an information technology/management information systems environment. Students in this program take 21 credits of upper division (junior/senior level) core courses that provide a broad applied background in finance, legal and ethical issues, communications, leadership, and project management. An additional 21 credits of upper division concentration area courses focus on coursework to prepare students for employment in specialized areas in the information technology field, such as networking and security assurance or database administration and project management.

Admission Requirements
To apply for the bachelor's degree program in Information Management, students must have earned an A.S. or A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do not have an associate degree may be accepted with permission of the dean. This program requires a specific set of prerequisite courses in the computer science discipline. Please see a bachelor's degree advisor for more information on the specific lower-division course requirements. Please see the Admissions section of this catalog for detailed admission requirements for bachelor's degree programs.

Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a “C” or better in all general education courses and upper division courses. Students must also meet the foreign language requirements. Additional completion information
Program Length
Total program credits: 120

Location
The program is offered at the Lake Worth campus; most courses in the program are offered online.

For More Information
Richard Chance, chancer@palmbeachstate.edu, (561) 868-4119

To see when the course is offered, click the course number. To see a course description, click the course title.

Courses From A.S./A.A.S. Degree
Credit: 42

Courses from A.A./A.A.S. degree Lower division details.

General Education Courses
Credit: 36

General Education Courses (Transferable)

Upper Division Common Core Courses
Credit: 21

BUL3130 Legal and Ethical Environment of Business 3
COP3530 Programming Languages and Concepts 3
GEB3213 Business Writing 3
FIN3400 Principles of Financial Management 3
ISM3113 Systems Analysis and Design 3
ISM3212 Database Management Systems 3
ISM3314 Project Management 3

Concentration Area Required Courses
Credit: 18

ISM4313 Managing IT Integration 3
ISM4312 Project and Change Management 3
ISM4332 IT Project Schedule and Cost Control 3
MAN4520 Quality Management Control 3
MAN4574 Acquisitions Management 3
MAN4584 Project Risk Management 3

Concentration Capstone Course
Credit: 3

ISM4881 Capstone Experience: Project Management 3

Total Program Credits: 120

*Some courses in this concentration area are offered as hybrid courses which require on-campus attendance.

Employment Opportunities
Upon completion of this program, students may seek employment in a variety of business and organizational settings in information technology related areas for positions requiring a bachelor’s degree for consideration.
Career Path Notes
After completion of this program, students may choose to apply for graduate study at a public or private university.

Career Center
www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Information Management-Security and Network Assurance BAS

Information Management - Security & Network Assurance (IT Forensics) Concentration (T803)

Type of Award
BAS - Bachelor of Applied Science

Program Website
www.palmbeachstate.edu/programs/Bachelor

Program Description
The program is 120 hours in length and articulates from existing Associates in Science/Associates in Applied Science degrees in the computer science field. The core curriculum includes coursework in project management, systems design and programming, business law, finance and business writing.

Admission Requirements
To apply for the bachelor's degree program in Information Management, students must have earned an A.S. or A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do not have an associate degree may be accepted with permission of the dean. This program requires a specific set of prerequisite courses in the computer science discipline. Please see a bachelor’s degree advisor for more information on the specific lower-division course requirements. Please see the Admissions section of the catalog for detailed admission requirements for bachelor's degree programs.

Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a “C” or better in all general education courses and upper division courses. Students must also meet the foreign language requirements. (Additional Information)

Capstone course: The following Capstone criteria must be met prior to registration in the course:
1. All lower division courses are satisfied
2. All upper division common core classes are completed
3. Successful completion of 12-15 credits of concentration area courses
4. Capstone may be taken concurrently with no more than two 3-credit courses and not any upper division common core courses. Restrictions may apply.

Program Length
Total program semester hours: 120

Location
This program is offered at the Lake Worth campus.

For More Information
Richard Chance, chancer@palmbeachstate.edu, (561) 868-4119

To see when the course is offered, click the course number. To see a course description, click the course title.
### Courses From A.S./A.A.S. Degree

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td></td>
<td><strong>Courses from A.A./A.A.S. degree</strong></td>
<td><strong>42</strong></td>
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<tr>
<td></td>
<td>(Lower Division Details)</td>
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### General Education Courses

<table>
<thead>
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<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Courses</strong></td>
<td><strong>36</strong></td>
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<td></td>
<td>(Transferable)</td>
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### Upper Division Common Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUL3130</td>
<td>Legal and Ethical Environment of Business *</td>
<td>3</td>
</tr>
<tr>
<td>COP3530</td>
<td>Programming Languages &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>GEB3213</td>
<td>Business Writing *</td>
<td>3</td>
</tr>
<tr>
<td>FIN3400</td>
<td>Principles of Financial Management *</td>
<td>3</td>
</tr>
<tr>
<td>ISM3113</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ISM3212</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>ISM3314</td>
<td>Project Management</td>
<td>3</td>
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</table>

### Concentration Area Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CNT4408</td>
<td>Information System Security</td>
<td>3</td>
</tr>
<tr>
<td>CNT4406</td>
<td>Network Security and Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>ISM4320</td>
<td>Applications in Information Security</td>
<td>3</td>
</tr>
<tr>
<td>ISM4220</td>
<td>Business Data Communications, Telecommunications/Network</td>
<td>3</td>
</tr>
<tr>
<td>ISM4323</td>
<td>Security Management</td>
<td>3</td>
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<tr>
<td>ISM4324</td>
<td>Computer Forensics</td>
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</table>

### Concentration Capstone Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ISM4331</td>
<td>Capstone Experience: Security and Network Assurance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Credits: 120**

*Courses from existing Supervision & Management BAS degree

### Employment Opportunities

As a graduate of this program, students will be prepared to work in information technology-related positions such as Information Technology Managers, Application Programmers, Network Administrators, Database Administrators, Computer Software Engineers, Systems Analysts and Business Analysts.

### Career Path Notes

After completion of this program, students may choose to apply for graduate study at a public or private university.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

Nursing BS

**Nursing (BS S901)**

**Type of Award**

BS - Bachelor of Science

**Program Website**

www.palmbeachstate.edu/programs/Bachelor

**Program Description**

Graduates of this program will be prepared to advance into administrative and supervisory positions in the nursing and health care fields. The program is designed as a "2+2" program, where program applicants must have earned an associate degree in Nursing from an accredited school and have a current Florida licensure in Nursing. The curriculum in the program follows the state prescribed articulated curriculum for advancement of A.S. degree nurses into the Bachelor of Science in Nursing degree program. The lower division requirements include 84 credits, including general education, nursing courses and common prerequisite courses. The upper division courses include 36 credit hours of course work that focuses on leadership, management, advanced care concepts, research, and contemporary issues in nursing. The program culminates in a capstone course that synthesizes the concepts learned throughout the program.

**Admission Requirements**

To apply for the bachelor's degree program in Nursing, students must have earned an A.S. degree in nursing and have a cumulative GPA of 2.5 or higher. In addition, students must have current Florida licensure in Nursing. Please see the Admissions section of this catalog for detailed admission requirements for bachelor's degree programs. Upon acceptance in the program, students will be contacted and will be required to attend a mandatory orientation session.

**Completion Requirements**

Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a "C" or better in all general education courses and upper division courses. Students must also meet the foreign language requirements. *(Additional Information)*

**Program Length**

Total program semester hours: 120

**Location**

The program is offered at the Lake Worth campus and online.

**For More Information:**

Mary A. Biderman, Ph.D., MA, BSN
Email: bidermam@palmbeachstate.edu
(561) 868-4127

Adina DiFederico-Yates, Ph.D., MSN, BSN
Email: difedera@palmbeachstate.edu
(561) 868-4128

To see when the course is offered, click the course number. To see a course description, click the course title.

**General Education Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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</tr>
<tr>
<td>ENC1102</td>
<td>College Composition 2</td>
<td>3</td>
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<tr>
<td>Course Code</td>
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<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------</td>
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</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
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</tr>
<tr>
<td></td>
<td>Select two courses from Area II (Humanities)</td>
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<tr>
<td></td>
<td>Area III (Mathematics) MAC1105 or MGF1106 or MGF1107</td>
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<td>Area III (Mathematics) STA2023 Statistics</td>
<td>3</td>
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<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
<td>3</td>
</tr>
<tr>
<td>MCB2010</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Area V (Social Science) (AMH/POS)</td>
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<tr>
<td>HSC1101</td>
<td>Contemporary Issues in Health</td>
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</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any 3-5 credit course from Area I-V</td>
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<td>Core Nursing Courses From A.S./A.A.S. Degree</td>
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<td>Core Nursing Courses From A.S. Degree</td>
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<td>Lower Division Common Prerequisite Courses</td>
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<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
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<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
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<tr>
<td>BSC2086L</td>
<td>Anatomy and Physiology 2 Lab</td>
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<tr>
<td>CHM1032</td>
<td>Principles of Chemistry</td>
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<tr>
<td>DEP2004</td>
<td>Human Growth and Development</td>
<td>3</td>
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<tr>
<td>HUN1201</td>
<td>Elements of Nutrition</td>
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<tr>
<td>MCB2010L</td>
<td>Microbiology Lab</td>
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<td>AA Elective Course</td>
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<td>Upper Division Common Core Courses</td>
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<tr>
<td>NUR3825</td>
<td>Transitional Nursing Role Perspectives (BS)</td>
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<tr>
<td>NUR4107</td>
<td>Nursing Perspectives/Global Trends (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR3125</td>
<td>Advanced Pathophysiology for Nursing (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR3119</td>
<td>Heritage of Nursing Concepts/Theories (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR3164</td>
<td>Nursing Research and Informatics (BS)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
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<tr>
<td>NUR3069</td>
<td>Advance Health Assessment (BS)</td>
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<tr>
<td>NUR3678</td>
<td>Nursing Care for the Geriatric Patient and Other Vulnerable Populations (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR4847</td>
<td>Clinical Decision Making/Critical Thinking (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR4655</td>
<td>Nursing in a Multicultural Society (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR4827C</td>
<td>Leadership and Management in Professional Nursing (BS)</td>
<td>3</td>
</tr>
<tr>
<td>NUR4636C</td>
<td>Community Health Nursing (BS)</td>
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</tr>
<tr>
<td>NUR4945</td>
<td>Capstone Experience: Nursing (BS)</td>
<td>3</td>
</tr>
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</table>

Total Program Credit: 120

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
Graduates may seek employment in a variety of health care environments that require a bachelor's degree in nursing.

**Career Path Notes**
After completion of this program, students may choose to apply for graduate study at a public or private university.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Project Management CPP**

**Certificate of Professional Preparation - Project Management (C810)**

**Type of Award**
CPP - Certificate of Professional Preparation

**Program Website**
[www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor)

**Program Description**
The Certificate of Professional Preparation in Project Management concentrates on project management fundamentals focusing on all knowledge areas covered in the Project Management Body of Knowledge (PMBOK) to include: project integration, scope, time, cost, quality, human resource, communications, risk, and procurement management. Students will gain an understanding of all phases of a project life cycle form initiation, planning, execution, monitoring & controlling, to closing.

These courses cover competencies for several certifications including Project Management Institute's Certified Associate in Project Management (CAPM) and Project Management Professional (PMP).

**Admission Requirements**
To apply for the Certificate of Professional Preparation in Project Management program, students must have earned a bachelor's degree and have at least a 2.0 GPA. Please see a bachelor's degree advisor for more information and
program course requirements. Also see the Admissions section of the catalog for detailed admission requirements for the bachelor’s degree programs.

Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a "C" or better in all program courses. (Additional Information)

Program Length
Total program semester hours: 21

Location
This program is offered online and at the Lake Worth campus.

For More Information
Richard Chance, chancer@palmbeachstate.edu, (561) 868-4119

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ISM3314</td>
<td>Project Management</td>
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</tr>
<tr>
<td>ISM4313</td>
<td>Managing IT Integration</td>
<td>3</td>
</tr>
<tr>
<td>ISM4312</td>
<td>Project and Change Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM4332</td>
<td>IT Project Schedule and Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>MAN4520</td>
<td>Quality Management Control</td>
<td>3</td>
</tr>
<tr>
<td>MAN4574</td>
<td>Acquisitions Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN4584</td>
<td>Project Risk Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 21

For individualized course sequence

Employment Opportunities
Graduates of this program will be prepared to work in information technology-related positions, such as project managers, information technology managers, systems analysts, business analysts, quality assurance managers, and business process improvement managers.

Career Path Notes
After completion of this program, students may choose to obtain an industry certification in project management such as Project Management Institute's Certified Associate in Project Management or Project Management Professional. Students may choose to apply for graduate study at a public or private university.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Supervision and Management-Entrepreneurship BAS

Supervision & Management Entrepreneurship (BAS T704)
Type of Award
BAS - Bachelor of Applied Science

Program Website
www.palmbeachstate.edu/programs/Bachelor

Program Description
Graduates of this program will have the knowledge, skills and opportunity to pursue managerial-level positions in a variety of careers. Students in this program take 24 credits of upper division (junior/senior level) core courses that provide a broad applied background in finance, legal and ethical issues, management information systems, leadership, human resources and management. An additional 18 credits of upper division concentration area courses focus on coursework to prepare students for employment in a variety of managerial roles and career settings in the public and private sectors and entrepreneurial endeavors.

Admission Requirements
To apply for the bachelor’s degree program in Supervision and Management, students must have earned an A.S. or A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do not have an associate degree may be accepted with permission of the dean. Please see the Admissions section of this catalog for detailed admission requirements for bachelor's degree programs.

Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a “C” or better in all general education courses and upper division courses. Students must also meet the foreign language requirements. (Additional Information)

Capstone course: The following Capstone criteria must be met prior to registration in the course:
1. All lower division courses are satisfied
2. All upper division common core classes are completed
3. Successful completion of 12-15 credits of concentration area courses
4. Capstone may be taken concurrently with no more than two 3-credit courses and not any upper division common core courses. Restrictions may apply.

Program Length
Total program semester hours: 120

Location
The program is offered at the Lake Worth campus.

For More Information
Dr. C. Thomas Capers, capers@palmbeachstate.edu, (561) 868-4111

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Courses From A.S./A.A.S. Degree</th>
<th>Credits: 42</th>
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<tbody>
<tr>
<td>(Lower Division Details)</td>
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<table>
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<tr>
<th>General Education Courses</th>
<th>Credits: 36</th>
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<table>
<thead>
<tr>
<th>Upper Division Common Core Courses</th>
<th>Credits: 24</th>
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<tbody>
<tr>
<td>BUL3130</td>
<td>Legal and Ethical Environment of Business</td>
</tr>
<tr>
<td>FIN3400</td>
<td>Principles of Financial Management</td>
</tr>
<tr>
<td>ISM4011</td>
<td>Management Information Systems</td>
</tr>
</tbody>
</table>
### Areas of Study

#### Supervision and Management-General Management BAS  
**Supervision & Management - General Management Concentration (BAS T701)**

**Type of Award**  
BAS - Bachelor of Applied Science

**Program Website**  
www.palmbeachstate.edu/programs/Bachelor

**Program Description**  
As a graduate of this program, students will have the knowledge, skills and opportunity to pursue managerial-level positions in a variety of careers. B.A.S. students will take 24 semester hours of upper division (junior/senior level) core courses that provide a broad applied background in accounting, finance, legal and ethical issues, management

### Concentration Area Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAN3025</td>
<td>Administrative Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN3240</td>
<td>Organizational Theory and Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN3301</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN4120</td>
<td>Leadership Challenges and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>GEB3213</td>
<td>Business Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Credits:** 12

### Electives - Choose one

Choose ENT3413, ENT4114, GEB3453, GEB4940C, MAN4802 or RMI3004

**Credits:** 3

### Concentration Capstone Course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENT4900</td>
<td>Capstone Experience: Entrepreneurship</td>
<td>3</td>
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</table>

**Credits:** 3

**Total Program Credits:** 120

### Employment Opportunities

Upon completion of this program, students may seek employment in a variety of business and organizational settings in managerial-level positions that require a bachelor’s degree for consideration.

### Career Path Notes

After completion of this program, students may choose to apply for graduate study at a public or private university.

### Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
information systems, leadership, human resources and management. An additional 18 hours of upper division
centration area courses focus on coursework to prepare students for employment in a variety of managerial roles
and career settings in the public and private sectors.

Admission Requirements
To apply for the bachelor's degree program in Supervision and Management, students must have earned an A.S. or
A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do
not have an associate degree may be accepted with permission of the dean. Please see the Admissions section of
the catalog for detailed admission requirements for bachelor's degree programs.

Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a “C”
or better in all general education courses and upper division courses. Students must also meet the foreign language
requirements. (Additional Information)

Capstone course: The following Capstone criteria must be met prior to registration in the course:
1. All lower division courses are satisfied
2. All upper division common core classes are completed
3. Successful completion of 12-15 credits of concentration area courses
4. Capstone may be taken concurrently with no more than two 3-credit courses and not any upper division common
core courses. Restrictions may apply.

Program Length
Total program semester hours: 120

Location
The program is offered at the Lake Worth campus.

For More Information
Dr. C. Thomas Capers, capers@palmbeachstate.edu, (561) 868-4111

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Courses From A.S./A.A.S. Degree</th>
<th>Credits: 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Courses</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BUL3130</td>
<td>Legal and Ethical Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>FIN3400</td>
<td>Principles of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>GEB3213</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ISM4011</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MAN3025</td>
<td>Administrative Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN3240</td>
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<td>3</td>
</tr>
<tr>
<td>MAN3301</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN4120</td>
<td>Leadership Challenges and Supervision</td>
<td>3</td>
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</tbody>
</table>
Concentration Area Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB4891</td>
<td>Strategic Management &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MAN4401</td>
<td>Labor Relations Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN4504</td>
<td>Operational Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MAR4802</td>
<td>Marketing for Managers</td>
<td>3</td>
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</tbody>
</table>

Electives - Choose 3 credits

Choose GEB3375, GEB3453, GEB4113, GEB4940C or MAN4162

Credits: 3

Concentration Capstone Course

GEB4935 Capstone Experience: General Management

Credits: 3

Total Program Credits: 120

Employment Opportunities

Upon completion of this program, students may seek employment in a variety of business and organizational settings in managerial-level positions that require a bachelor’s degree for consideration.

Career Path Notes

After completion of this program, students may choose to apply for graduate study at a public or private university.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/

Supervision and Management-Health Management BAS

Supervision & Management - Health Management Concentration (BAS T702)

Type of Award

BAS - Bachelor of Applied Science

Program Website

www.palmbeachstate.edu/programs/Bachelor

Program Description

As a graduate of this program, students will have the knowledge, skills and opportunity to pursue managerial-level positions in a variety of careers. B.A.S. students will take 24 semester hours of upper division (junior/senior level) core courses that provide a broad applied background in accounting, finance, legal and ethical issues, management information systems, leadership, human resources and management. An additional 18 hours of upper division concentration area courses focus on coursework to prepare students for employment in a variety of managerial roles and career settings in the public and private sectors.

Admission Requirements

To apply for the bachelor’s degree program in Supervision and Management, students must have earned an A.S. or A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do not have an associate degree may be accepted with permission of the dean. Please see the Admissions section of this catalog for detailed admission requirements for bachelor’s degree programs.
Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a “C” or better in all general education courses and upper division courses. Students must also meet the foreign language requirements. (Additional Information)

Capstone course: The following Capstone criteria must be met prior to registration in the course:
1. All lower division courses are satisfied
2. All upper division common core classes are completed
3. Successful completion of 12-15 credits of concentration area courses
4. Capstone may be taken concurrently with no more than two 3-credit courses and not any upper division common core courses. Restrictions may apply.

Program Length
Total program semester hours: 120

Location
The program is offered at the Lake Worth campus.

For More Information
Dr. C. Thomas Capers, capers@palmbeachstate.edu, (561) 868-4111

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Courses From A.S./A.A.S. Degree</th>
<th>Credits: 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Lower Division Details)</td>
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</table>

<table>
<thead>
<tr>
<th>General Education Courses</th>
<th>Credits: 36</th>
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<tr>
<td>MAN3301 Human Resources Management</td>
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<tr>
<td>MAN4120 Leadership Challenges and Supervision</td>
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<thead>
<tr>
<th>Concentration Area Required Courses</th>
<th>Credits: 12</th>
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<tbody>
<tr>
<td>HSA3110 Healthcare Organization &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>HSA4421 Legal Aspects &amp; Legislation in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>MAN4504 Operational Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>HSC4500 Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>Electives - Choose one</td>
<td>Credits: 3</td>
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</table>
Choose GEB4940C, HSA3160, HSA4109 or HSA4553 3

Concentration Capstone Course

HSA4938  Capstone Experience: Health Management 3

Total Program Credits: 120

Employment Opportunities
Upon completion of this program, students may seek employment in a variety of business and organizational settings in managerial-level positions that require a bachelor’s degree for consideration.

Career Path Notes
After completion of this program, students may choose to apply for graduate study at a public or private university.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Supervision and Management-Project Management BAS

Supervision & Management Project Management (BAS T705)

Type of Award
BAS - Bachelor of Applied Science

Program Website
www.palmbeachstate.edu/programs/Bachelor

Program Description
Graduates of this program will have the knowledge, skills and opportunity to pursue managerial-level positions in a variety of careers. Students in this program take 24 credits of upper division (junior/senior level) core courses that provide a broad applied background in finance, legal and ethical issues, management information systems, leadership, human resources and management. An additional 18 credits of upper division concentration area courses focus on coursework to prepare students for employment in a variety of managerial roles and career settings in the public and private sectors and entrepreneurial endeavors.

Admission Requirements
To apply for the bachelor’s degree program in Supervision and Management, students must have earned an A.S. or A.A. degree and have at least a 2.0 GPA. Students who have earned a minimum of 60 credits and a 2.0 GPA but do not have an associate degree may be accepted with permission of the dean. Please see the Admissions section of this catalog for detailed admission requirements for bachelor’s degree programs.

Completion Requirements
Students must successfully complete all courses in the curriculum, have at least a 2.0 GPA and have earned a “C” or better in all general education courses and upper division courses. Students must also meet the foreign language requirements. (Additional Information)

Capstone course: The following Capstone criteria must be met prior to registration in the course:
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**Program Length**
Total program semester hours: 120

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Dr. C. Thomas Capers, capers@palmbeachstate.edu, (561) 868-4111

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<tr>
<td>ISM3314</td>
<td>Project Management</td>
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<tr>
<td>MAN4520</td>
<td>Quality Management Control</td>
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<td>MAN4574</td>
<td>Acquisitions Management</td>
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<td>MAN4584</td>
<td>Project Risk Management</td>
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<td>Choose GEB4940C, ISM4312, ISM4313 or ISM4332</td>
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<tr>
<td>ISM4881</td>
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<td>Capstone Experience: Project Management</td>
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Total Program Credits: 120

**Employment Opportunities**
Upon completion of this program, students may seek employment in a variety of business and organizational settings in managerial-level positions that require a bachelor's degree for consideration.
Career Path Notes
After completion of this program, students may choose to apply for graduate study at a public or private university.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Accounting Technology AS

Accounting Technology  (AS 2050)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Accounting

Program Description
This degree program is designed for the student who will seek immediate employment in the accounting field upon graduation or who is presently employed in accounting and allied fields and desires advancement.

Course content includes accounting, tax, computer applications and business communications.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Professor D'Agati, (561) 868-3173
Professor Danso, (561) 868-3174

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>Any Course from Humanities - Area II</td>
<td>3</td>
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<tr>
<td>Any Course from Social Science - Area V</td>
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<td>Required Courses</td>
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<td>APA1111 Bookkeeping</td>
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<tr>
<td>ACG2022 Financial Accounting</td>
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<tr>
<td>ACG2071 Managerial Accounting</td>
<td>3</td>
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<tr>
<td>ACG2100 Intermediate Accounting</td>
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<tr>
<td>ACG2360 Cost Accounting</td>
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<tr>
<td>ACG2450 Microcomputer Operations Accounting</td>
<td>3</td>
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<tr>
<td>CGS1513 Electronic Spreadsheets</td>
<td>3</td>
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<tr>
<td>APA2172 Computerized Bookkeeping</td>
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<tr>
<td>BUL2241 Business Law 1</td>
<td>(3)</td>
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<tr>
<td>-or-</td>
<td></td>
<td></td>
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<tr>
<td>GEB1011 Introduction to Business</td>
<td>(3)</td>
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<tr>
<td>-or-</td>
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<tr>
<td>MAN2021 Principles of Management</td>
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<td>CGS1100 Microcomputer Applications</td>
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<td>MNA2100 Human Relations in Business</td>
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<tr>
<td>GEB2214 Business Communications</td>
<td>3</td>
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<tr>
<td>TAX2000 Federal Income Tax 1</td>
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<tr>
<td>TAX2010 Federal Income Tax 2</td>
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<tr>
<td>Electives - Choose 3 credits</td>
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<td>Select any course with the prefix BUL, CGS, ECO, ENT, GEB, MAN, MAR, MKA, MNA, PLA, or TAX</td>
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</table>

Total Program Credits: 64

**Employment Opportunities**

The program prepares the student for employment as a para-professional accountant or an assistant to an accountant (C.P.A.) performing tax and management advisory services, or as a full-charge bookkeeper to include management duties. Students can work in businesses, government agencies and accounting firms.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor). In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Accounting Technology CCC

Accounting Technology (6110)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Accounting

Program Description
This college credit certificate program is designed to prepare the student for entry-level employment in the accounting field. Course content includes principles, procedures and theories of organizing and maintaining business and financial records and the preparation of accompanying financial reports.

Admission Requirements

• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/Admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Students may complete the program in one year if they attend full time or two years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Professor D'Agati, (561) 868-3173
Professor Danso, (561) 868-3174

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
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<td>MTB1103 Business Mathematics</td>
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<tr>
<td>GEB2214 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CGS1100 Microcomputer Applications</td>
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<tr>
<td>APA1111 Bookkeeping</td>
<td>3</td>
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<td>ACG2022 Financial Accounting</td>
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<tr>
<td>ACG2071 Managerial Accounting</td>
<td>3</td>
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<tr>
<td>ACG2450 Microcomputer Operations Accounting</td>
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</tr>
<tr>
<td>TAX2000 Federal Income Tax 1</td>
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</tbody>
</table>

ELECTIVES (2 CREDITS REQUIRED)
Select any course with the prefix BUL, CGS, ECO, ENT, GEB, MAN, MAR, MKA, MNA, PLA or TAX

Total Program Credits: 27
Employment Opportunities
This credit program is designed to prepare the student for employment as an accounting clerk, junior accountant or assistant accountant, or to provide supplemental training for persons previously or currently employed in the accounting field.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/gainfulemployment/.

Career Path Notes
Credits in this certificate program will transfer directly into the Associate in Science (A.S.) degree in Accounting Technology.

Career Center
http://www.palmbeachstate.edu/career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Banking Specialist-Financial Services CCC
Banking Specialist-Financial Services (6117)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Business

Program Description
This program is a college credit certificate for individuals currently employed in the banking industry or for those who would like to pursue a career in the banking field.
The Banking Specialist College Credit Certificate program provides students with both general knowledge and specific competencies that establish a foundation for a successful financial services career. This 12-credit certificate includes training in banking principles, law and banking, marketing for bankers and business communications.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Students may complete this program in one semester full-time or one year part-time.

Location
The program is offered at the Lake Worth campus.

For More Information
Juliett Tracey, traceyj@palmbeachstate.edu, (561) 868-3813

To see when the course is offered, click the course number. To see a course description, click the course title.
## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>BAN1004</td>
<td>Principles of Banking</td>
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<tr>
<td>MAR2011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUL2241</td>
<td>Business Law 1</td>
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</tr>
<tr>
<td>GEB2214</td>
<td>Business Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence [CLICK HERE]°

## Employment Opportunities

This certificate is well suited for individuals who plan to make banking a long-term career. Those individuals included career entry employees with clerical, administrative or customer service responsibilities.

## Gainful Employment

Program length excludes this program from gainful employment reporting requirements.

## Career Path Notes

Credits in this certificate program will transfer directly into the Associate in Science (A.S.) degree in Business Administration and Management.

## Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/

## Business Administration and Management CCC

### Business Administration and Management (6111)

#### Type of Award

CCC - College Credit Certificate

#### Program Website

www.palmbeachstate.edu/programs/Business

#### Program Description

This college credit certificate program is designed to prepare the student for employment in business. Course content prepares the student to become proficient in the planning, organizing, directing and controlling of a business, including organizational and human aspects, with emphasis on various theories of management, the knowledge and understanding necessary for managing economic resources, and decision making. Emphasis is given to the ownership of small business enterprises. It also provides supplemental training for persons previously or currently operating or owning a small business.

#### Admission Requirements

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

#### Completion Requirements

- Students must successfully complete all courses listed in the catalog for this program.

#### Program Length
The program can be finished in one year if you attend full-time or two years if you attend part-time.

**Location**
The program is offered at the Lake Worth and Belle Glade campuses.

**For More Information**
Jane Montonen, montonej@palmbeachstate.edu, (561) 868-3171
Juliett Tracey, traceyj@palmbeachstate.edu, (561) 868-3813

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 24</th>
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<tbody>
<tr>
<td>CGS1100 Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>GEB1011 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MNA2100 Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>GEB2214 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUL2241 Business Law 1</td>
<td>3</td>
</tr>
<tr>
<td>MAR2011 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MNA2345 Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MAN2021 Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 24

**Employment Opportunities**
This program is designed to prepare the student for the operation of a small business or to become small business owners/entrepreneurs.

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**
Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Business Administration and Management. Students who complete this certificate cannot be awarded the Marketing CCC (6113).

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Business Administration and Management-Banking Concentration AS**

**Business Administration & Management - Banking Concentration (AS 2039C)**

**Type of Award**
AS - Associate in Science

**Program Website**
[www.palmbeachstate.edu/programs/Business](http://www.palmbeachstate.edu/programs/Business)
Program Description
This degree program is designed for the student who seeks a broad background in business, seeks to start a small business, or wants to advance in a current position. Course content includes entrepreneurship, management and supervision, human relations, marketing and communications.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED; Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at Lake Worth campus.

For More Information
David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Credits: 24

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>ENC1102</td>
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<td></td>
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<tr>
<td>MAC2233</td>
<td>Survey of Calculus</td>
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<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
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<td>STA2023</td>
<td>Statistics</td>
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<tr>
<td>ECO2013</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
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<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
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Required Courses Credits: 24

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<th>Course</th>
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<td>ACG2022</td>
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<td>ACG2071</td>
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<td>BUL2241</td>
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<td>Microcomputer Applications</td>
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<td>ECO2023</td>
<td>Principles of Microeconomics</td>
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<td>GEB1011</td>
<td>Introduction to Business</td>
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</table>
GEB2930  Business Capstone  2

Professional Core Courses  Credits: 12
BAN1004  Principles of Banking  3
MAR2011  Principles of Marketing  3
MAN2021  Principles of Management  3
MNA2100  Human Relations in Business  3

Total Program Credits: 60

For individualized course sequence  CLICK HERE

Employment Opportunities
Employment opportunities are very broad in scope. For more information, visit the Career Center.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Business Administration and Management-Management, Supervision Concentration
AS

Business Administration & Management - Management, Supervision Concentration (AS 2039A)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Business

Program Description
This degree program is designed for the student who seeks a broad background in business, seeks to start a small business, or wants to advance in a current position.
Course content includes entrepreneurship, management and supervision, human relations, marketing and communications.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length

The program can be finished in two years if you attend full time or three years if you attend part time.

Location

The program is offered at Lake Worth campus.

For More Information

David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
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<tr>
<td>ENC1101 College Composition 1</td>
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<td>ENC1102 College Composition 2</td>
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<tr>
<td>ENC1102 Any MAC prefix course from Mathematics - Area III</td>
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<tr>
<td>MAC2233 Survey of Calculus</td>
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<td>SPC1017 Fundamentals of Speech Communication</td>
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<td>STA2023 Statistics</td>
<td>3</td>
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<tr>
<td>ECO2013 Principles of Macroeconomics</td>
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<tr>
<td>ECO2013 Any course from Humanities - Area II</td>
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<table>
<thead>
<tr>
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<tr>
<td>GEB2214 Business Communications</td>
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<td>ACG2022 Financial Accounting</td>
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<td>ACG2071 Managerial Accounting</td>
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<tr>
<td>BUL2241 Business Law 1</td>
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<td>CGS1100 Microcomputer Applications</td>
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<td>ECO2023 Principles of Microeconomics</td>
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<tr>
<td>GEB2930 Business Capstone</td>
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</table>

<table>
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<tr>
<th>Professional Core Courses</th>
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<tr>
<td>MNA2100 Human Relations in Business</td>
<td>3</td>
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<td>MNA2345 Principles of Supervision</td>
<td>3</td>
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<tr>
<td>MAN2021 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MAR2011 Principles of Marketing</td>
<td>3</td>
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</table>
Total Program Credits: 60

For individualized course sequence [CLICK HERE]

**Employment Opportunities**
Employment opportunities are very broad in scope. For more information, visit the Career Center.

**Career Path Notes**
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at palmbeachstate.edu/programs/Bachelor.

In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**
www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information, visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Business Administration and Management-Marketing Concentration AS**

**Business Administration & Management - Marketing Concentration** *(AS 2039B)*

**Type of Award**
AS - Associate in Science

**Program Website**
http://www.palmbeachstate.edu/programs/business/

**Program Description**
This degree program is designed for the student who seeks a broad background in business, seeks to start a small business, or wants to advance in a current position.

Course content includes entrepreneurship, management and supervision, human relations, marketing and communications.

**Program Learning Outcomes**
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/program-learning-outcomes.

**Admission Requirements**
Have a standard high school diploma or GED;

Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/admissions-applications.aspx.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
The program can be finished in two years if you attend full time or three years if you attend part time.

**Location**
The program is offered at Lake Worth campus.

**For More Information**
Jane Montonen, montonej@palmbeachstate.edu, (561) 868-3171
To see when the course is offered, click the course number. To see a course description, click the course title.

### General Education

**Credits: 24**

- **ENC1101** | College Composition 1 | 3
- **ENC1102** | College Composition 2 | 3
- Any MAC prefix course from Mathematics - Area III | 3
- **MAC2233** | Survey of Calculus | 3
- **SPC1017** | Fundamentals of Speech Communication | 3
- **STA2023** | Statistics | 3
- **ECO2013** | Principles of Macroeconomics | 3
- Any course from Humanities - Area II | 3

### Required Courses

**Credits: 24**

- **GEB2214** | Business Communications | 3
- **ACG2022** | Financial Accounting | 4
- **ACG2071** | Managerial Accounting | 3
- **BUL2241** | Business Law 1 | 3
- **CGS1100** | Microcomputer Applications | 3
- **ECO2023** | Principles of Microeconomics | 3
- **GEB1011** | Introduction to Business | 3
- **GEB2930** | Business Capstone | 2

### Professional Core Courses

**Credits: 12**

- **MAR2011** | Principles of Marketing | 3
- **MKA1511** | Advertising | 3
- **MKA2021** | Personal Selling | 3
- **MAN2021** | Principles of Management | 3

**Total Program Credits: 60**

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Employment opportunities are very broad in scope. For more information, visit the Career Center.

### Career Path Notes

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/bachelor/](http://www.palmbeachstate.edu/programs/bachelor/).

In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

### Career Center

[http://www.palmbeachstate.edu/career](http://www.palmbeachstate.edu/career)

For more information about employment opportunities including job outlook and salary information visit:
Business Entrepreneurship AS

Business Entrepreneurship (AS 2040)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Business

Program Description
This A.S. program is designed for the person who has the vision, strategy, and discipline to start a business venture but lacks the business expertise and skills to make it a success. It would also be helpful for those looking to manage a small business, those already in business seeking to expand or diversify, or those considering self-employment for the first time.
Course content includes entrepreneurial thinking, opportunity recognition, sales and marketing, e-commerce and global challenges, managing economic resources, risk-taking, securing financing, getting the required licensing and certifications, decision making, staffing issues, management and leadership skills.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth Campus.

For More Information
Debbie Beres, beresd@palmbeachstate.edu, (561) 868-3788
Juliet Tracey, traceyj@palmbeachstate.edu, (561) 868-3813

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Courses Credits: 15
ENC1101 College Composition 1 3
SPC1017 Fundamentals of Speech Communication 3
Any course from Mathematics - Area III 3
Any course from Social Science - Area V 3
### Required Courses

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<td>ACG2071</td>
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<td>BUL2241</td>
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<td>CGS1100</td>
<td>Microcomputer Applications</td>
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<td>ECO2013</td>
<td>Principles of Macroeconomics</td>
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</tr>
<tr>
<td>ENT1000</td>
<td>Fundamentals of Entrepreneurship</td>
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<td>ENT2120</td>
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<td>ENT2010</td>
<td>New Venture Management</td>
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<td>ENT2112</td>
<td>Planning the Entrepreneurial Venture</td>
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<td>GEB1011</td>
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<td>MNA2100</td>
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<td>MNA2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MKA2021</td>
<td>Personal Selling</td>
<td>3</td>
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</tbody>
</table>

**Total Program Credits: 64**

### Employment Opportunities

This program is designed to prepare the students to start their own business venture, work with others to identify business opportunities, manage a small business, or work for an established organization.

### Career Path Notes

Credits earned in this degree program will transfer into the college's Bachelor of Applied Science, Supervision and Management - General Management Concentration (BAS T701) program.

### Business Operations CCC

#### Business Operations (6481)

#### Type of Award

CCC - College Credit Certificate

#### Program Website

www.palmbeachstate.edu/programs/Business

#### Program Description

This college credit certificate program is designed to prepare the student for entry-level employment in business. Course content prepares the student to become proficient in the planning, organizing, directing and controlling of a business, including organizational and human aspects, with emphasis on various theories of management, the
knowledge and understanding necessary for managing economic resources, and decision making. It also provides supplemental training for persons previously or currently operating or owning a small business.

**Admission Requirements**
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
The program can be completed in one year full-time or 1-1/2 years part-time.

**Location**
This program is offered at the Lake Worth campus.

**For More Information**
Jane Montonen, montonej@palmbeachstate.edu, (561) 868-3171
Juliett Tracey, traceyj@palmbeachstate.edu, (561) 868-3813

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CGS1100</td>
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<td>GEB1011</td>
<td>Introduction to Business</td>
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<td>MAR2011</td>
<td>Principles of Marketing</td>
<td>3</td>
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<td>GEB2214</td>
<td>Business Communications</td>
<td>3</td>
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<tr>
<td>MAN2021</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 18

For individualized course sequence [CLICK HERE]

**Employment Opportunities**
This program is designed to prepare the student for mid-management positions in a variety of business environments or to provide supplemental training for persons previously or currently employed in management occupations.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Business Administration and Management.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Business Specialist CCC

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Business

Program Description
This college credit certificate program is designed to prepare the student for entry-level employment in business. Course content prepares the student to become proficient in the planning, organizing, directing and controlling of a business, including organizational and human aspects, with emphasis on various theories of management, the knowledge and understanding necessary for managing economic resources, decision making and marketing.

Admission Requirements
Have a standard high school diploma or GED; Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in one semester full time or one year part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Jane Montonen, montonej@palmbeachstate.edu, (561) 868-3171
Juliett Tracey, traceyj@palmbeachstate.edu, (561) 868-3813

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGS1100</td>
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<td>GEB1011</td>
<td>Introduction to Business</td>
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<td>MNA2100</td>
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<tr>
<td>MAR2011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence [CLICK HERE]

Employment Opportunities
This program is designed to prepare the student for mid-management positions in a variety of business environments or to provide supplemental training for persons previously or currently employed in management occupations.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Business Administration and Management.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Entrepreneurship CCC
Entrepreneurship (6118)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Business

Program Description
This college credit certificate program is designed for the person who has the vision, strategy and discipline to start a business venture but lacks the business expertise and skills to make it a success. It would also be helpful for those already in business seeking to expand or diversify or those considering self-employment for the first time. Course content includes entrepreneurial thinking, opportunity recognition, sales and marketing, e-commerce and global challenges, managing economic resources, risk-taking, securing financing, getting the required licensing and certifications, decision making, staffing issues, management and leadership skills.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in one year.

Location
The program is offered at the Lake Worth and Boca Raton campuses.

For More Information
Debbie Beres, beresd@palmbeachstate.edu, (561) 868-3788
Juliett Tracey, traceyj@palmbeachstate.edu, (561) 868-3813

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
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<td>ENT1000</td>
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<td>ENT2120</td>
<td>Entrepreneurship Marketing and Selling 3</td>
</tr>
<tr>
<td>ENT2010</td>
<td>New Venture Management 3</td>
</tr>
<tr>
<td>ENT2112</td>
<td>Planning the Entrepreneurial Venture 3</td>
</tr>
</tbody>
</table>
Total Program Credits: 12

For individualized course sequence [CLICK HERE]

**Employment Opportunities**
This program is designed to prepare the students to start their own business venture, work with others to identify business opportunities, or work for an established organization.

**Career Path Notes**
Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Business Entrepreneurship.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Food Service Management CCC**

**Food Service Management (6115)**

**Type of Award**
CCC - College Credit Certificate

**Program Website**
[www.palmbeachstate.edu/programs/Hospitality](http://www.palmbeachstate.edu/programs/Hospitality)

**Program Description**
This certificate is designed to introduce food service management concepts. The courses will provide a broad range of skills and knowledge that will be needed to enter into an entry-level management position. Course content includes sanitation, food production, dining room service and management, and cost control practices.

**Admission Requirements**
Have a standard high school diploma or GED;
Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Approximate program length is one year.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Danny Fontenot, [fontenod@PalmBeachState.edu](mailto:fontenod@PalmBeachState.edu), (561) 868-3353

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>27</td>
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</tbody>
</table>
### Areas of Study

**HFT1000**  
Introduction to the Hospitality Business  
3

**FOS1201**  
Food Service Sanitation  
2

**FSS1220**  
Professional Cooking  
1

**FSS1220L**  
Professional Cooking Lab  
2

**HFT1850C**  
Dining Room Management  
3

**FSS1221C**  
Quantity Food Production I  
4

**FSS2242C**  
International Foods  
3

**FSS2500**  
Food and Beverage Cost Control  
3

**CGS1100**  
Microcomputer Applications  
3

**FSS2105**  
Purchasing for the Hospitality Industry  
3

**Electives**  
Credits: 3

**Electives**  
3

**Total Program Credits:** 30

*Electives: select from courses with the prefixes FSS or HFT.*

---

**Employment Opportunities**

Employment opportunities include restaurants, hotel food service, country club kitchen management, catering management, or retail food production.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Courses earned in this certificate will transfer directly into the Associate of Science (A.S.) degree in Hospitality and Tourism Management.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

---

**Hospitality CCC**

**Hospitality** (6116)

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Hospitality](http://www.palmbeachstate.edu/programs/Hospitality)

**Program Description**
This certificate is designed to introduce hotel management concepts. The courses will provide a broad range of skills and knowledge that will be needed to understand the management process within the lodging industry. Course content includes security, personnel practices, purchasing, front office procedures, property operations management, and legal aspects of the hospitality industry.

Admission Requirements
Have a standard high school diploma or GED; Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Approximate program length is one year.

Location
The program is offered at the Lake Worth campus.

For More Information
Danny Fontenot, fontenod@PalmBeachState.edu, (561) 868-3353

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>HFT1000  Introduction to the Hospitality Business</td>
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<tr>
<td>HFT2220  Personnel Management Practices</td>
<td>3</td>
</tr>
<tr>
<td>FSS2105  Purchasing for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT2600  Hospitality Industry Law</td>
<td>3</td>
</tr>
<tr>
<td>HFT2410  Hotel-Motel Front Office and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HFT1630  Management of Security in Hospitality Business</td>
<td>3</td>
</tr>
<tr>
<td>HFT1313  Hospitality Property Management</td>
<td>3</td>
</tr>
<tr>
<td>CGS1100  Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>FSS2500  Food and Beverage Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>Electives*</td>
<td>Credits: 3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
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</table>

Total Program Credits: 30

*Electives: select from courses with the prefixes FSS or HFT.

Employment Opportunities
Employment opportunities include motel and hotel rooms division, country clubs, time shares, extended living hotels or condo hotels.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.
Career Path Notes
Courses earned in this certificate will transfer directly into the Associate in Science (A.S.) degree in Hospitality and Tourism Management.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Hospitality and Tourism Management AS
Hospitality and Tourism Management (AS 2060)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Hospitality

Program Description
This degree program is designed for the student seeking a management career in the hospitality industry as well as other allied fields.
Course content includes food service, menu planning, cooking, hospitality management and hotel administration.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Danny Fontenot, Fontenod@PalmBeachState.edu, (561) 868-3353

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
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<th>General Education</th>
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<tr>
<td>ENC1101</td>
<td>College Composition 1 3</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication 3</td>
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<td>Any course from Mathematics - Area III 3</td>
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</table>
### Required Courses

<table>
<thead>
<tr>
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<tr>
<td>HFT1000</td>
<td>Introduction to the Hospitality Business</td>
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<tr>
<td>HFT2220</td>
<td>Personnel Management Practices</td>
<td>3</td>
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<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
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<tr>
<td>FSS2105</td>
<td>Purchasing for the Hospitality Industry</td>
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<tr>
<td>HFT1630</td>
<td>Management of Security in Hospitality Business</td>
<td>3</td>
</tr>
<tr>
<td>HFT1313</td>
<td>Hospitality Property Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT2410</td>
<td>Hotel-Motel Front Office and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>FOS1201</td>
<td>Food Service Sanitation</td>
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<tr>
<td>FSS1220</td>
<td>Professional Cooking</td>
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<tr>
<td>FSS1220L</td>
<td>Professional Cooking Lab</td>
<td>1</td>
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<tr>
<td>FSS2500</td>
<td>Food and Beverage Cost Control</td>
<td>3</td>
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<td>FSS1221C</td>
<td>Quantity Food Production 1</td>
<td>4</td>
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<td>ACG2022</td>
<td>Financial Accounting</td>
<td>4</td>
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<tr>
<td>HFT1850C</td>
<td>Dining Room Management</td>
<td>3</td>
</tr>
<tr>
<td>FSS2242C</td>
<td>International Foods</td>
<td>3</td>
</tr>
<tr>
<td>HFT2600</td>
<td>Hospitality Industry Law</td>
<td>3</td>
</tr>
<tr>
<td>HFT2510</td>
<td>Sales Promotion and Advertising in Hotels and Food Service</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 64

For individualized course sequence, [CLICK HERE](#).

### Career Path Notes

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. See the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor) for more information. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Insurance Claims Adjuster PSAV

**Insurance Claims Adjuster (5498)**

**Type of Award**  
PSAV - Post Secondary Adult Vocational Certificate

**Program Website**  
www.palmbeachstate.edu/programs/Insurance

**Program Description**  
This PSAV program is designed to prepare students to work in an insurance office as an accredited claims adjuster. This program is approved by the Florida Department of Financial Services, Division of Agent and Agency Services, as a pre-licensing requirement for obtaining a ACA 5.20 or 6.20 Insurance License. This course is required for the public adjuster apprentice (3.21) license.

**Program Learning Outcomes**  
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**Admission Requirements**  
No high school diploma or GED is required. Students must:  
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**  
Students must successfully complete the course listed in the catalog for this program.

**Program Length**  
Total program clock hours: 40; Approximate program length: 5 weeks

**Location**  
This program is offered at the Lake Worth and Boca Raton campuses.

**For More Information**  
David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**  
<table>
<thead>
<tr>
<th>Course</th>
<th>Clock Hours</th>
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</thead>
<tbody>
<tr>
<td>RMI0635</td>
<td>40</td>
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</tbody>
</table>

Total Program Clock Hours: 40

For individualized course sequence, CLICK HERE.

**Employment Opportunities**  
This program will prepare students to work in an insurance office handling insurance claims for the clients on behalf of the insurance company. It also meets the state requirement for pre-licensing for the public adjuster apprentice license.  
NOTE: You cannot be licensed in Florida if you do not possess a Social Security Number.

**Gainful Employment**  
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
Upon successful completion of the program, students are able to apply to Florida Department of Insurance to obtain their 5.20 or 6.20 insurance license. This course will also enable students to meet the requirement on the public adjuster apprentice license.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Insurance Customer Service Representative PSAV

Insurance Customer Service Representative (5497)

EFFECTIVE JULY 1 - THIS LICENSE IS NO LONGER OFFERED AT PBSC

To see how to be eligible for a 4.40 license, please click here.

Type of Award

PSAV - Post Secondary Adult Vocational Certificate

Program Website

www.palmbeachstate.edu/programs/Insurance

Program Description

This PSAV program is designed to prepare students to work in an insurance office as a registered customer service representative. This program is approved by the Florida Department of Financial Services, Division of Agent and Agency Services, as a pre-licensing requirement for the RCSR (4.40) Insurance License.

Program Learning Outcomes

For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements

No high school diploma or GED is required. Students must:
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements

Students must successfully complete the course listed in the catalog for this program.

Program Length

Total program clock hours: 40: Approximate program length: 5 weeks

Location

This program is offered at the Lake Worth and Palm Beach Gardens campuses.

For More Information

David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMI0093</td>
<td>40</td>
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</tbody>
</table>

Total Program Clock Hours: 40
Employment Opportunities
This program will prepare students to work in an insurance office handling customer service issues for their clients on their insurance policies.
NOTE: You cannot be licensed in Florida if you do not possess a Social Security Number.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Upon successful completion of the program, students are eligible to apply to Florida Department of Insurance to obtain their 4.40 insurance license.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Life/Health/Variable Annuities Agent PSAV
Life, Health and Variable Annuities Agent (5470)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Insurance

Program Description
This PSAV program prepares the student to take the State of Florida licensing exam for a position as a life insurance agent, including health and variable annuities. This course is for all participants who deal with the ultimate consumer and must obtain a Florida insurance license. This pre-licensing course is approved by the Florida Department of Financial Services, Division of Agent and Agency Services.
Course content includes development of communication, critical thinking, human relations and employability skills. Topics included in the course: insurance terminology and concepts, federal and state regulations and legal contracts.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:
Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program hours: 40. Approximate program length: five weeks.

Location
The program is offered at the Lake Worth campus.
For More Information
David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>RMI0092</td>
<td>Life, Health and Variable Annuities</td>
<td>40</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 40

For individualized course sequence CLICK HERE

Employment Opportunities
This program prepares the student for an entry-level insurance position selling life, health, and/or variable annuities. Note: You cannot be licensed in Florida if you do not possess a Social Security Number.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Upon successful completion of the program, the student may take the Florida Department of Insurance examination for licensure in life, health & variable annuities.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Marketing CCC
Marketing (6113)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Business

Program Description
This college credit certificate program is designed to prepare the student for entry-level employment in the marketing field. Course content includes marketing, advertising, personal selling, business law, management and general business knowledge.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Students may complete the program in one year if they attend full time or two years part time.
Location
The program is offered at the Lake Worth campus.

For More Information
Jane Montonen, montonej@PalmBeachState.edu, (561) 868-3171

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAR2011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUL2241</td>
<td>Business Law 1</td>
<td>3</td>
</tr>
<tr>
<td>MKA1511</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td>MAN2021</td>
<td>Principles of Management</td>
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<tr>
<td>MKA2021</td>
<td>Personal Selling</td>
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<td>GEB1011</td>
<td>Introduction to Business</td>
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<tr>
<td>GEB2214</td>
<td>Business Communications</td>
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</table>

Total Program Credits: 24

Employment Opportunities
This credit program is designed to prepare the student for employment as an advertising and display specialist or marketing, advertising, & public relations specialist. This program also provides supplemental training for persons previously or currently employed in these occupations.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Business Administration and Management. Students who complete this certificate cannot be awarded the Business Administration and Management CCC (6111).

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Paralegal AS

Paralegal (2505)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Paralegal

Program Description
This degree program prepares the student for employment as a legal assistant/paralegal in law-related occupations, including public and private law practice and/or corporate or government law-related activities. Course content includes legal concepts, court systems, tort law, business law, real estate law, immigration, estate law, bankruptcy and legal communications.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth and Palm Beach Gardens campuses.

For More Information
Dr. Cary High, highc@PalmBeachState.edu, (561) 207-5150

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Credits: 18

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
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<td></td>
<td>Any course from Social Science - Area V</td>
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<td></td>
<td>Any course from Humanities - Area II</td>
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</tr>
<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
<td>3</td>
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<tr>
<td>ENC1101</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Mathematics - Area III or Natural Sciences - Area IV, Tier 1 &amp; 2</td>
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Required Courses Credits: 40

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<tr>
<td>BUL2241</td>
<td>Business Law I</td>
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<tr>
<td>PLA1003</td>
<td>Introduction to Paralegalism</td>
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<td>PLA2611</td>
<td>Real Estate Law and Property Transactions</td>
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<td>PLA2229</td>
<td>Court System: Procedures and Pleadings II</td>
<td>3</td>
</tr>
<tr>
<td>PLA2465</td>
<td>Bankruptcy Law and Procedure</td>
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</tr>
<tr>
<td>PLA2841</td>
<td>Immigration Law &amp; Procedures</td>
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### AREAS OF STUDY

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<tr>
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<tr>
<td>PLA1104</td>
<td>Legal Writing and Research I</td>
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<td>PLA2630</td>
<td>Real Estate Closing and Document Preparation</td>
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<td>PLA2483</td>
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<td>PLA2114</td>
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<td>Court System: Procedures and Pleadings I</td>
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<td>PLA1273</td>
<td>Tort Law</td>
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<tr>
<td>PLA2600</td>
<td>Administration of Estates</td>
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**Electives - Choose 6 credits**

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<tbody>
<tr>
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<td>Criminal Law</td>
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<tr>
<td>PLA1949C</td>
<td>Co-op Legal Assistant I</td>
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<tr>
<td>PLA2800</td>
<td>Family Law</td>
<td>3</td>
</tr>
<tr>
<td>PLA2762</td>
<td>Law Office Management</td>
<td>3</td>
</tr>
<tr>
<td>POS1041</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PLA2303</td>
<td>Criminal Litigation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Credits: 64**

**Employment Opportunities**

Graduation from this program will qualify a student to sit for the National Association of Legal Assistants national exam to become a Certified Legal Assistant (CLA). Students are encouraged to take this exam.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor). In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Property/Casualty Agent-General Lines PSAV**

**Property and Casualty General Lines Agent (5469)**

**Type of Award**

PSAV - Post Secondary Adult Vocational Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Insurance](http://www.palmbeachstate.edu/programs/Insurance)

**Program Description**
This PSAV program is designed to prepare students to take the State of Florida licensing examination for the property & casualty general lines (2.20 authority), in preparation for the position of general lines agent. This pre-licensing course is approved by the Florida Department of Financial Services, Division of Agent and Agency Services. Topics include automobile, fire & allied lines, general liability, homeowner's insurance, crime & surety, worker's compensation, inland & ocean marine, aviation and boiler machinery. Course content includes development of communication, critical thinking, human relations and employability skills.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program clock hours: 200. Approximate program length: 14 weeks.

Location
The program is offered at the Boca Raton, Lake Worth and Palm Beach Gardens campuses.

For More Information
David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
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<tr>
<td>RMI0091</td>
<td>Property and Casualty/General Lines</td>
<td>200</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 200

For individualized course sequence CLICK HERE

Employment Opportunities
The entry-level insurance agent understands automobile insurance, fire and allied lines, general liability, homeowners insurance, crime and surety, workers compensation, inland and ocean marine and aviation.
NOTE: You cannot be licensed in Florida if you do not possess a Social Security Number.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Upon successful completion of this program, the student is eligible to take the Florida Department of Insurance exam for licensure in property & casualty/general lines.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Real Estate Broker PSAV

Real Estate Broker  (5475)

NOTE: This program is suspended and no longer accepting new students

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/RealEstate

Program Description
This PSAV program is a study of the principles and practices needed to become a real estate broker. Topics include getting started as a broker, valuing real property, listing and selling real property and specialties such as zoning, environmental issues and property management and real estate closings. This pre-licensing class is approved by the Florida Department of Business and Professional Regulation, Real Estate Commission.
This program is designed to prepare students to become a real estate broker by successfully completing this course and then passing the state license exam.
NOTE: An applicant for a Florida Real Estate Broker’s License must have held an active Real Estate Sales Associate License for at least 24 months.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
In addition to the above requirements, students must either have an active Florida real estate sales associate license for 24 months within the immediate past five years, or have an active real estate broker license, or sales associate license for 24 months within the immediate past five years from another state.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program is 72 hours in length: six to nine weeks.

Location
The course is offered at the Lake Worth campus.

For More Information
David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>REE0042</td>
<td>Real Estate Broker</td>
<td>72</td>
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</tbody>
</table>

Total Program Clock Hours: 72

For individualized course sequence CLICK HERE

Employment Opportunities
This is a career sales position and is based on industry opportunities.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Upon successful completion of the program, the student is eligible to take the broker's exam with the Florida Department of Insurance.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: 
O-Net Online: http://online.onetcenter.org/

Real Estate Sales Associate PSAV

Real Estate Sales Associate  (5499)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/RealEstate

Program Description
This PSAV program is a study of the basic principles, practices and theories of real property, economic value, legal implication and relationship to the sales associate and broker. This pre-licensing class is approved by the Florida Department of Business and Professional Regulation, Real estate Commission. The pre-license course for real estate sales associates must be successfully completed prior to taking the state license examination. Real estate is one of the major industry groups in the Florida economy. The selling and leasing of housing is an especially strong career opportunity in South Florida.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program hours: 63. Approximate program length: four to ten weeks.

Location
The program is offered at the Boca Raton, Lake Worth and/or Palm Beach Gardens campuses.

For More Information
David Knopp, knoppd@palmbeachstate.edu, (561) 868-3689

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
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</thead>
<tbody>
<tr>
<td>REE0047</td>
<td>Florida Real Estate Sales Agent</td>
<td>63</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 63
Employment Opportunities

The program is designed to begin preparing students for employment as a real estate sales associate or to provide supplemental education for those previously or currently employed in this occupation. NOTE: You cannot be licensed in Florida if you do not possess a Social Security Number.

Gainful Employment

Program length excludes this program from gainful employment reporting requirements.

Career Path Notes

Upon successful completion of the program, the student is eligible to take the Sales Associate exam with the Florida Department of Insurance.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/
CHILD CARE, HUMAN SERVICES AND TEACHER EDUCATION

30 Hour Family Child Care Certification PSAV

30-Hour Family Child Care Certification (5363)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Childcare

Program Description
This PSAV program fulfills the child care training required by the Florida Department of Children and Families for child care providers to operate a licensed family child care home. Home child care providers serving children birth to 5 years old must complete a two part course: Part 1 Rules and Regulations-Family and Part II Introduction to Child Care Worker Certification.

Part I – Rules and Regulations-Family
This course is designed to give family child care home providers an overview of the state and local rules and regulations that govern the child care industry. The goal of this course is to ensure family child care professionals recognize the primary laws that govern child care in Florida and understand the role of the regulatory agencies that enforce those laws. The student will be introduced to course material that will be covered on the Department of Children and Families mandated competency test:
1. Participants will understand how the law defines their roles and responsibilities as child care professionals.
2. Participants will understand the responsibilities of regulatory agencies involved in licensing and inspecting family child care home programs.
3. Participants will identify and understand the primary laws, rules and regulations that govern state and local licensing and child care practices.
4. Participants will understand key business practices related to providing licensed child care in Florida.

Part II – Introduction to Child Care Worker Certification
This course fulfills Part II of two Parts required to complete the 30-Hour Family Child Care Training mandated by the Department of Children and Families for child care workers. This course combines the Introductory Child Care training with the 10-Hour Behavioral Observation and Screening component for a total of 24 hours of training. This course provides training on identifying and reporting child abuse and neglect; health, safety and nutrition; child growth and development as well as behavioral observation and screening techniques.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:

- Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

- After registering and paying the applicable tuition fee students must ALSO register for the class on the Department of Children and Families Web site: www.myflorida.com/childcare/Training. For additional information regarding scheduling the exam visit www.palmbeachstate.edu/programs/Childcare (select Child Care Exam).
Completion Requirements
Students are required to successfully pass with a score of 70 percent or better the state-mandated competency tests to be awarded their child care certification to work in a licensed family child care home. For all information related to the competency exam required for childcare certification visit http://www.myflorida.com/childcare/Training or www.palmbeachstate.edu/programs/Childcare (select Child Care Exam).

Program Length
Total required hours: 30.

Location
The program is offered at all Palm Beach State campuses.

For More Information
Luisa Brennan, brennanl@PalmBeachState.edu, (561) 868-4048

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEV0118</td>
<td>Rules &amp; Regulations for Family Child Care</td>
<td>6</td>
</tr>
<tr>
<td>HEV0115</td>
<td>Introductory Child Care Worker Certification</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 30

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Palm Beach State has additional credit child care and education programs.

Career Center
www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online:  http://online.onetcenter.org/

Addiction Studies CCC

Addiction Studies (6392)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/HumanServices

Program Description
The Addiction Studies college credit certificate will provides a quicker and less intensive route for practitioners in the field to obtain their addiction certification provided by the Florida Certification Board. In addition, the college credit certificate provides a vital workforce development initiative to aid students and community agencies in obtaining certification, with increases in salary and employment.

Admission Requirements
- Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in 18 months if you attend full time.

Location
The program is offered at the Lake Worth campus.

For More Information
Suzie Duff, duffs@PalmBeachState.edu, (561) 868-3461.

To see when the course is offered, click the course number. To see a course description, click the course title.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HUS1356</td>
<td>HIV AIDS and Domestic Abuse</td>
<td>1</td>
</tr>
<tr>
<td>HUS1001</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUS1302</td>
<td>Counseling and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>HUS1421</td>
<td>Assessment and Treatment Planning in Addictions</td>
<td>3</td>
</tr>
<tr>
<td>HUS1423</td>
<td>Group Counseling in Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HUS1424</td>
<td>Counseling the Chemically Dependent Person</td>
<td>3</td>
</tr>
<tr>
<td>HUS1440</td>
<td>Family Issues in Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>HUS1450</td>
<td>Dual Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>HUS1400</td>
<td>Psychopharmacology of Drugs of Abuse</td>
<td>2</td>
</tr>
<tr>
<td>HUS1850</td>
<td>Field Work in Human Services 1</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850L</td>
<td>Field Work in Human Services 1 Internship</td>
<td>3</td>
</tr>
<tr>
<td>HUS2308</td>
<td>Psychotherapy: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology *</td>
<td>3</td>
</tr>
<tr>
<td>SYG2000</td>
<td>Introduction to Sociology *</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 39

*Students will need to provide adequate English and Reading placement test scores or complete ENC1101 before enrolling in this course.

For individualized course sequence [CLICK HERE](#)

Employment Opportunities
This program is designed to prepare students for employment in the addictions field as substance abuse counselors, human services practitioners, chemical dependency practitioners, addictions specialists, and social services practitioners or to provide supplemental training for persons previously or currently employed in these occupations.

**Career Path Notes**

The Addiction Studies CCC provides a route for practitioners in the field to obtain their addictions professional certification provided by the Florida Certification Board. Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Human Services-Addiction Studies.

**Career Center**

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)

O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Career and Technical Educator ATC**

**Career and Technical Educator (4393)**

**Type of Award**

ATC - Advanced Technical Certificate

**Program Website**

www.palmbeachstate.edu/programs/TeacherEd/Professional-Development.aspx.

**Program Description**

The Career and Technical Education (CTE) Advanced Technical Certificate assists current Palm Beach County School District CTE instructors who wish to obtain a professional CTE district certification. Candidates must be current CTE instructors in teaching positions in the areas of medical/health science, business/technology, career pathways/criminal justice/OJT, STEM/industrial education/TV production, family consumer science or hospitality and tourism. Candidates must take the four required Career and Technical Education courses within their valid three-year temporary district certification period to gain a professional CTE district certification. This program is a district-approved certification program that consists of 12 credits and can be completed in one year. Courses are offered in the evenings and on weekends on the Lake Worth campus and through distance learning.

**Admission Requirements**

Candidates for the program must have a valid School District of Palm Beach County issued Statement of Status of eligibility and temporary CTE district certification.

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

The program can be completed in one year.

**Location**

The program is offered at the Lake Worth campus and distance learning.

**For More Information**

Contact the Institute of Teacher Education at 561-868-3823

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

Credits: 12
**EPI0001**  
*Classroom Management*  
3

**EPI0002**  
*Instructional Strategies*  
3

**EEX2010**  
*Introduction to Special Education*  
3

**ECT2180**  
*Curriculum Construction: Career and Technical Education (CTE)*  
3

**Total Program Credits: 12**

*These courses must go through the prior learning process to be recorded on the Degree Audit for this ATC. Contact Institute of Teacher Education's Office for directions.*

**Employment Opportunities**

Employment opportunities include working as a certified Career and Technical Education teacher for the School District of Palm Beach County in a public or charter school setting.

**Career Path Notes**

Students who successfully complete the program will be eligible to apply for their Career and Technical Education District Professional Educator Certificate.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Caring for Children-Birth to 3 Years PSAV**

**Caring for Children Birth To 3 Years (FCCPC) (5390)**

**Type of Award**

PSAV - Post Secondary Adult Vocational Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Childcare](http://www.palmbeachstate.edu/programs/Childcare)

**Program Description**

This program prepares the student who works with children Birth to 3 Years old in a licensed child care facility or family child care home for the National CDA Credential. The program is divided into three modules covering the eight content areas for the Florida Child Care Professional Credential (FCCPC) in which a student must demonstrate competence.

The student will successfully complete 120 hours of formal classroom instruction in the six competency goals, a 2-hour observation during Module 1 and Module 3, document 480 hours of work experience and complete all other Palm Beach State requirements.

Upon completion of the program the student will be awarded a Florida Child Care Professional Credential FCCPC from the Department of Children and Families.

**Program Learning Outcomes**

For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**

These requirements must be met before registering for the FCCPC program:

PREREQUISITES
• Change Program Objective Code
• FCCPC Information Session
• 40-Hour Introductory Child Care Training (Part I, II, & III) or 30 Hr. Family Child Care Training (Part I & II)
• 10 Hour Infant/Toddler Appropriate Practices
• High school diploma (or equivalent) and College Application submitted to Palm Beach State
  www.palmbeachstate.edu/admissions/Admissions-Applications.aspx
• Employed in a licensed child care setting working with children 5 years or younger (preferably birth-3 years of age)
  or family child care home
• TABE Exam (9D Survey)
• Must be at least 18 years of age or older
• Mastery of the English language

An official high school diploma or GED transcript must be on file at the Registrar’s Office. The transcript must show
that the student graduated with a standard diploma from an accredited high school accepted by Palm Beach State.
The transcript must be received and accepted by the registrar before registering for Module 1.

Completion Requirements
Students must successfully pass each FCCPC module with a passing grade of A, B, or C and complete all additional
requirements for each of the modules in order to be eligible to continue in the program. Once the student has
successfully passed each module, a Department of Children and Families Florida Child Care Professional Credential
(FCCPC) will be awarded.

Program Length
Total Required Hours: 600.

Location
The program is offered at all Palm Beach State campuses.

For More Information
Susy Martinez White, martines@palmbeachstate.edu, (561) 868-3807

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>HEV0807</td>
<td>Caring for Children Birth - 3 Years Module 1</td>
</tr>
<tr>
<td>HEV0808</td>
<td>Caring for Children Birth - 3 Years Module 2</td>
</tr>
<tr>
<td>HEV0809</td>
<td>Caring for Children Birth - 3 Years Module 3</td>
</tr>
<tr>
<td>HEV0999</td>
<td>ECPC/FCCPC Practical Experience</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 600

For individualized course sequence CLICK HERE

Employment Opportunities
A student completing this program may find employment opportunities as an early childhood provider, practitioner,
lead or assistant teacher, curriculum specialist, director and program administrator, just to name a few opportunities
in the early childhood field.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
The student who has earned a Department of Children and Families FCCPC Certificate from Palm Beach State can receive college credits toward an Associate in Science degree (A.S.) in Early Childhood Education (2358). The articulation will be processed upon request once students have completed 15 college credits toward the A.S. degree (2358). For more information call (561) 868-4049.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Child Care Center Management CCC

Child Care Center Management (6366)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Childcare

Program Description
This college credit certificate (CCC) program consists of coursework in leadership, administration, educational programming and financial issues associated with managing a quality child care program. This CCC provides instruction consisting of college-level courses to prepare students for the management and administrative aspects of a child care program. The approved course for the foundational level of the Florida Director Credential is EEC 1523 Overview of Child Care Center Management.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Palm Beach State offers the coursework required for the foundational and advanced level credential; however, students must submit their application and additional documentation to the Florida Children's Forum for review and issuance of the Director Credential. Questions on the Florida Director Credential requirements should be directed to the Department of Children and Families at (888) 352-2842.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 12.

Location
The program is offered at the Lake Worth campus.

For More Information
Dr. Colleen Fawcett, (561) 868-3349

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
Clock Hours: 12
<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>EEC1523</td>
<td>Overview of Child Care Center Management</td>
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</tr>
<tr>
<td>EEC2521</td>
<td>Child Care and Education Financial and Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>EEC2002</td>
<td>Child Care and Education Organization Leadership Management</td>
<td>3</td>
</tr>
<tr>
<td>EEC2202</td>
<td>Child Care and Education Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 12

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

This certificate includes the coursework required for the foundational and/or advanced level of the Florida Director Credential. Students completing the CCC for Child Care Center Management will increase their marketability when searching for positions as directors, administrators or owners of child care centers.

**Gainful Employment**

Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**

These 12 credits can apply toward the A.S. degree in Early Childhood Education with a specialization in Child Care Center Management. The courses included in this certificate will satisfy the coursework requirements for child care center managers/administrators who are seeking their Florida Director Credential.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Early Childhood (ECPC) Professional Certification PSAV**

**Early Childhood Professional Certification (ECPC) - Preschool (5364)**

**Type of Award**

PSAV - Post Secondary Adult Vocational Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Childcare](http://www.palmbeachstate.edu/programs/Childcare)

**Program Description**

The Department of Education Early Childhood Professional Certificate (ECPC) program prepares the student who works with children 3 to 5 years old in a licensed child care facility or family child care home for the National CDA Credential.

The student will successfully complete 120 hours of formal classroom instruction in the six competency goals, a 2-hour observation during Module 1 and Module 3, document 480 hours of work experience and complete all other Palm Beach State requirements.

Upon completion of the program the student will be awarded a Department of Education Early Childhood Professional Certificate (ECPC).

**Program Learning Outcomes**
Admission Requirements
These requirements must be met before registering for the ECPC program:
PREREQUISITES
• Change Program Objective Code
• ECPC Information Session
• 40-Hour Introductory Child Care Training (Part I, II, & III)
• 10-Hour Preschool Appropriate Practices
• High school diploma (or equivalent) and College Application submitted to Palm Beach State (www.palmbeachstate.edu/admissions/Admissions-Applications.aspx)
• Employed in a licensed child care setting working with children 5 years or younger (preferably 3-5 years of age)
• TABE Exam (9D Survey)
• Must be at least 18 years of age or older
• Mastery of the English language
An official high school diploma or GED transcript must be on file at the Registrar's Office. The transcript must show that the student graduated with a standard diploma from an accredited high school accepted by Palm Beach State. **The transcript must be received and accepted by the registrar before registering for Module 1.**

Completion Requirements
Students must successfully pass each ECPC module with a passing grade of A, B or C and complete all additional requirements for each of the modules in order to be eligible to continue in the program. Once the student has successfully passed each module, a Department of Education Early Childhood Professional Certificate (ECPC) will be awarded.

Program Length
Total Required Hours: 600.

Location
The program is offered at all Palm Beach State campuses.

For More Information
Suzy Martinez White, martines@PalmBeachState.edu, (561) 868-3807

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>HEV0130</td>
<td>Early Childhood Professional Certificate (ECPC) Module 1</td>
<td>40</td>
</tr>
<tr>
<td>HEV0131</td>
<td>Early Childhood Professional Certificate (ECPC) Module 2</td>
<td>40</td>
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<tr>
<td>HEV0132</td>
<td>Early Childhood Professional Certificate (ECPC) Module 3</td>
<td>40</td>
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<tr>
<td>HEV0999</td>
<td>ECPC/FCCPC Practical Experience</td>
<td>480</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 600

For individualized course sequence **CLICK HERE ▶**

Employment Opportunities
A student completing this program may find employment opportunities as an early childhood provider, practitioner, lead or assistant teacher, curriculum specialist, director and program administrator, just to name a few opportunities in the early childhood field.
Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
The student who has earned a Department of Education ECPC Certificate from Palm Beach State can receive college credits toward an Associate in Science degree (A.S.) in Early Childhood Education (2358). The articulation will be processed upon request once students have completed 15 college credits toward the A.S. degree (2358). For more information call (561) 868-4049.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Early Childhood Education AS

Early Childhood Education  (AS 2358)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Childcare

Program Description
This degree program provides the student with a thorough background in all aspects of child development as well as expanding his or her classroom knowledge into practical hands-on teaching experience. The program also provides the student with the training and information they need to pursue a career working with infants through school age children.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Dr. Colleen Fawcett, (561) 868-3349

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education
Credits: 15
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>ESC1000</td>
<td>Earth Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>-or- Any course from Natural Sciences - Area IV, Tier 1 &amp; 2</td>
<td>3</td>
</tr>
<tr>
<td>ARH1000</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>-or- Any course from Humanities - Area II</td>
<td>3</td>
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<tr>
<td>PSY2012</td>
<td>General Psychology</td>
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**Required Courses**

Credits: 36

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MUL1010</td>
<td>Music Appreciation</td>
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<tr>
<td>EDG1314</td>
<td>Education Practicum 1</td>
<td>3</td>
</tr>
<tr>
<td>ENC1102</td>
<td>College Composition 2 *</td>
<td>3</td>
</tr>
<tr>
<td>EEC1601</td>
<td>Observation and Assessment in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EEC2710</td>
<td>Conflict Resolution in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EEC2271</td>
<td>Teaching Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>EDF2085</td>
<td>Introduction to Diversity for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EEC2734</td>
<td>Health, Safety, and Nutrition for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CHD1220</td>
<td>Child Development, Infancy/Preschool</td>
<td>3</td>
</tr>
<tr>
<td>EDF1030</td>
<td>Behavior Management in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>DEP2102</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>MTB1103</td>
<td>Business Mathematics **</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or- Any course from Mathematics-Area III</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or- Any credit math approved by department</td>
<td>3</td>
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</table>

Required College Credit Certificate (CCC) Courses

Credits: 12

Complete one of the following Certificates to complete this AS program:
Child Care Center Management
CCC 6366
EEC1523; EEC2002; EEC2202; EEC2521
- or -
Infant/Toddler CCC 6367
EEC1001; EEC1522; EEC2201; EEC2407
- or -
Pre-School CCC 6368
EEC1001; EEC1300; EEC1311; EEC1312

Total Program Credits: 63

*EDG1315 Practicum 2 may be taken instead of ENC1102 only by students not planning to transfer to a university.
**(Or higher. Students planning to transfer to a university should see an advisor.)

For individualized course sequence [CLICK HERE]

Employment Opportunities
Students who complete this program can seek educator, caregiver or manager positions within licensed child care centers, in private and public school settings and in afterschool/mentoring programs, such as Head Start. Head Start is a federal program that requires its teachers to have earned at least an A.S. or A.A. degree.

Career Path Notes
Course from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the Web at www.palmbeachstate.edu/programs/Bachelor.
In addition, the Early Childhood Education A.S. degree will articulate to Florida Atlantic University’s Bachelor in Early Childhood Education (BECE) degree and to Lynn University’s Bachelor of Science in Elementary Education Grade K-6.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Human Services CCC

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/HumanServices

Program Description
This college credit certificate program is designed to be the first educational step to a professional career in human services.
This program will focus on broad introductory principles of human behavior specific to the good practices and techniques in human service. Course work will enable students to employ effective communications and interpersonal skills, understand the legal and ethical responsibilities of human services and demonstrate computer literacy.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

Approximate program length: 18 months.

**Location**

The program is offered at the Lake Worth campus.

**For More Information**

Suzie Duff, duffs@PalmBeachState.edu, (561) 868-3461.

To see when the course is offered, click the course number. To see a course description, click the course title.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HUS1001</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology *</td>
<td>3</td>
</tr>
<tr>
<td>SYG2430</td>
<td>Marriage and Family</td>
<td>3</td>
</tr>
<tr>
<td>GEY2000</td>
<td>Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>HUS1424</td>
<td>Counseling the Chemically Dependent Person</td>
<td>3</td>
</tr>
<tr>
<td>HUS1200</td>
<td>Principles of Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>SYG2361</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>HUS1302</td>
<td>Counseling and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850</td>
<td>Fieldwork in Human Services 1</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850L</td>
<td>Fieldwork in Human Services 1 Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 27

*Students will need to provide adequate English and Reading placement test scores or complete ENC1101 before enrolling in this course.

**For individualized course sequence** [CLICK HERE](#)

**Employment Opportunities**

Students who complete this program may find employment as services assistants, social service aides, and case management aides.
Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Human Services.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Human Services-Addiction Studies AS
Human Services-Addiction Studies (2391)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/HumanServices

Program Description
This program focuses on teaching broad, transferable skills and stresses understanding and demonstration of the human services profession, with an emphasis on addictions. The content includes: personal awareness, history and present state of addictions, interdisciplinary addiction professional roles and functions, various treatment modalities, and therapeutic interventions. It will stress interpersonal communication, assessment, evaluation, working knowledge of DSM diagnostic criteria, etiology of addictions, psychopharmacology, and health and safety issues prevalent in the addictive populations.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in two years if you attend full time.

Location
The program is offered at the Lake Worth campus.

For More Information
Suzie Duff, duffs@PalmBeachState.edu, (561) 868-3461.

To see when the course is offered, click the course number. To see a course description, click the course title.
### General Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
</tr>
<tr>
<td>Any course from Humanities - Area II</td>
<td></td>
</tr>
<tr>
<td>Any course from Mathematics - Area III</td>
<td></td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
</tr>
<tr>
<td>Any course from Natural Sciences - Area IV, Tier 1 &amp; 2 (BSC1005 Concepts of Biology recommended)</td>
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</table>

**Credits:** 18

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CLP2001</td>
<td>Personality Development and Adjustment</td>
</tr>
<tr>
<td>DEP2004</td>
<td>Human Growth and Development</td>
</tr>
<tr>
<td>ENC1102</td>
<td>College Composition 2</td>
</tr>
<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
</tr>
<tr>
<td>HUS1356</td>
<td>HIV AIDS and Domestic Abuse</td>
</tr>
<tr>
<td>HUS1001</td>
<td>Introduction to Human Services</td>
</tr>
<tr>
<td>HUS1302</td>
<td>Counseling and Interviewing</td>
</tr>
<tr>
<td>HUS1421</td>
<td>Assessment and Treatment Planning in Addictions</td>
</tr>
<tr>
<td>HUS1423</td>
<td>Group Counseling in Substance Abuse</td>
</tr>
<tr>
<td>HUS1424</td>
<td>Counseling the Chemically Dependent Person</td>
</tr>
<tr>
<td>HUS1440</td>
<td>Family Issues in Chemical Dependency</td>
</tr>
<tr>
<td>HUS1450</td>
<td>Dual Diagnosis</td>
</tr>
<tr>
<td>HUS1400</td>
<td>Psychopharmacology of Drugs of Abuse</td>
</tr>
<tr>
<td>HUS1850</td>
<td>Field Work in Human Services 1</td>
</tr>
<tr>
<td>HUS1850L</td>
<td>Field Work in Human Services 1 Internship</td>
</tr>
<tr>
<td>HUS2308</td>
<td>Psychotherapy: Theory and Practice</td>
</tr>
<tr>
<td>HUS2320</td>
<td>Introduction to Crisis Intervention</td>
</tr>
<tr>
<td>HUS2851</td>
<td>Field Work in Human Services 2</td>
</tr>
<tr>
<td>HUS2851L</td>
<td>Field Work in Human Services 2 Internship</td>
</tr>
<tr>
<td>SYG2000</td>
<td>Introduction to Sociology</td>
</tr>
</tbody>
</table>

**Credits:** 55
Total Program Credits: 73

For individualized course sequence CLICK HERE

Employment Opportunities
This program is designed to prepare students for employment as clinical specialists, human services practitioners, chemical dependency practitioners, addictions specialists, substance abuse counselors, and social services practitioners or to provide supplemental training for persons previously or currently employed in these occupations.

Career Path Notes
The Human Services Addiction Studies A.S. degree provides a route for practitioners in the field to obtain their addictions professional certification provided by the Florida Certification Board. Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. See www.palmbeachstate.edu/programs/Bachelor for more information.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Human Services-General Concentration AS

Human Services-General Concentration (AS 2345)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/HumanServices

Program Description
The traditional human services concentration will prepare the student for an entry-level position as a human services specialist in areas such as children’s services, family counseling, working with juveniles and adolescents, drug and alcohol abuse, the elderly, socially and economically handicapped, mentally or emotionally handicapped and others.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered on the Lake Worth campus.

For More Information
Suzie Duff, duffs@PalmBeachState.edu, (561) 868-3461.

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits: 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any course from Humanities - Area II</td>
<td>3</td>
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<tr>
<td>ENC1101 College Composition 1</td>
<td>3</td>
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<tr>
<td>Any course from Mathematics - Area III</td>
<td>(3)</td>
</tr>
<tr>
<td>PSY2012 General Psychology</td>
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<tr>
<td>SPC1017 Fundamentals of Speech Communication</td>
<td>3</td>
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<tr>
<td>Any course from Natural Sciences - Area IV, Tier 1 &amp; 2</td>
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<table>
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<tr>
<td>CLP2001 Personality Development and Adjustment</td>
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</tr>
<tr>
<td>DEP2004 Human Growth and Development</td>
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<tr>
<td>ENC1102 College Composition 2</td>
<td>3</td>
</tr>
<tr>
<td>HUS1001 Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUS1302 Counseling and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>HUS1200 Principles of Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GEY2000 Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>HUS1424 Counseling the Chemically Dependent Person</td>
<td>3</td>
</tr>
<tr>
<td>HSC2100 Health Concepts and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850 Field Work in Human Services 1</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850L Field Work in Human Services 1 Internship</td>
<td>3</td>
</tr>
<tr>
<td>HUS2308 Psychotherapy: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>HUS2851 Field Work in Human Services 2</td>
<td>2</td>
</tr>
<tr>
<td>HUS2851L Field Work in Human Services 2 Internship</td>
<td>3</td>
</tr>
<tr>
<td>SYG2000 Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>SYG2361 Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SYG2430 Marriage and Family</td>
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</tbody>
</table>

Total Program Credits: 65

For individualized course sequence [CLICK HERE]

Employment Opportunities
Upon completion of this program, you may seek employment in social service agencies, government and community agencies, drug and alcohol rehabilitation treatment facilities, group homes, nursing homes, and educational settings. Some job titles include: Outreach Worker, Youth Program Assistant, Mental Health Technician, Family Support Worker, Addictions Counselor, Job Coach, Behavioral Technician, Habilitation Coach, Residential Worker, and Team/Group Facilitator.

Career Path Notes
Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Human Services-Youth Development Concentration AS

Human Services-Youth Development Concentration (AS 2374)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/HumanServices

Program Description
This degree program is designed to prepare the student for an entry-level position as a youth worker in areas such as afterschool programs, community-based, residential, group home and other youth environments. Course content includes youth development, group dynamics, best practices in youth programming, and supervised fieldwork experiences.
An important part of the program at Palm Beach State is the supervised field work experience that the student receives in an agency, organization or program of his/her choice.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Suzie Duff, duffs@PalmBeachState.edu, (561) 868-3461.

To see when the course is offered, click the course number. To see a course description, click the course title.

**General Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF1030</td>
<td>Behavior Management in the Classroom *</td>
<td>3</td>
</tr>
<tr>
<td>DEP2004</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>ENC1102</td>
<td>College Composition 2</td>
<td>3</td>
</tr>
<tr>
<td>HUS1001</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUS1620</td>
<td>Principles and Best Practices in Afterschool Programs *</td>
<td>3</td>
</tr>
<tr>
<td>HUS1203</td>
<td>Principles of Group Facilitation *</td>
<td>3</td>
</tr>
<tr>
<td>HUS1640</td>
<td>Principles of Youth Work *</td>
<td>3</td>
</tr>
<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850</td>
<td>Fieldwork in Human Services 1</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850L</td>
<td>Fieldwork in Human Services 1 Internship</td>
<td>3</td>
</tr>
<tr>
<td>HUS2308</td>
<td>Psychotherapy: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>HUS2851</td>
<td>Fieldwork in Human Services 2</td>
<td>2</td>
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<tr>
<td>HUS2851L</td>
<td>Fieldwork in Human Services 2 Internship</td>
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<tr>
<td>SYG2000</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SYG2361</td>
<td>Death and Dying * -or- Marriage and Family</td>
<td>3</td>
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<tr>
<td>SYG2430</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>SYG2010</td>
<td>American Social Problems *</td>
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</table>

**Total Program Credits: 65**

*Those Human Services A.S. students who plan to transfer to a Human Services B.S. or Social Work B.S.W. must take the Human Services-General A.S. Concentration.*
For individualized course sequence CLICK HERE

**Employment Opportunities**

Upon completion of this program, you may seek employment in social service agencies, government and community agencies, group homes, afterschool programs and educational settings. Some job titles include: Outreach Worker, Recreation Worker, Youth Program Assistant, Family Support Worker, Job Coach, Residential Worker, and Team/Group Facilitator.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor). In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Infant/Toddler CCC**

**Infant/Toddler (6367)**

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Childcare](http://www.palmbeachstate.edu/programs/Childcare)

**Program Description**

This college credit certificate (CCC) program consists of coursework in curriculum, environments and areas of child development associated with infants and toddlers. This CCC consists of college-level courses in infant/toddler development, curriculum, classroom environment, adult-child interaction and parent relationships.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

Total program credits: 12.

**Location**

The program is offered at the Lake Worth campus.

**For More Information**

Dr. Colleen Fawcett, fawcettc@PalmBeachState.edu, (561) 868-3349
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC1001</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC1522</td>
<td>Infant/Toddler Environments</td>
<td>3</td>
</tr>
<tr>
<td>EEC2201</td>
<td>Developing Curriculum for Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>EEC2407</td>
<td>Social-Emotional Growth and Socialization in Infants and Toddlers</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence [CLICK HERE]

Employment Opportunities

Students who complete the CCC for infant/toddlers will increase their marketability when searching for positions as lead teachers and assistant teachers in infant/toddler classrooms.

Gainful Employment

Program length excludes this program from gainful employment reporting requirements.

Career Path Notes

These 12 credits can be applied to the A.S. degree in Early Childhood Education with a specialization in Infant/Toddler.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Institute of Teacher Education

Teacher Certification Program (F225)

Program Website

www.palmbeachstate.edu/programs/TeacherEd

Program Description

This institutional credit program is designed for professionals with non-education bachelor's degrees to help them transition into teaching careers through competency-based coursework, portfolios, and practicum experience. This teacher certification program consists of seven hybrid courses and two practicum experience courses. The required courses provide the student with a baseline of knowledge in educational theory, effective teaching strategies, classroom management and instructional technology. This program also offers elective courses to further enhance skills in the teaching of reading.

Program Learning Outcomes

For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements

Candidates for the program must have 1) a non-education bachelor's degree from a regionally accredited college or university, 2) a minimum 2.5 grade point average and also a SOE (statement of eligibility) from DOE and 3) passing
score on the GKT, General Knowledge Exam for Reading, English, Essay & Math. Candidates must complete College and program applications and be interviewed by the program manager.

Completion Requirements
Students must complete all the coursework with a 2.5 GPA or higher, complete a portfolio, demonstrate teaching skills, and pass all FTCE exams.

Program Length
Approximate program length: one year.

Location
The program is offered at the Lake Worth campus.

For More Information
Contact the Institute of Teacher Education at (561) 868-3823.

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPI0001</td>
<td>Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EPI0002</td>
<td>Instructional Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EPI0003</td>
<td>Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>EPI0004</td>
<td>The Teaching and Learning Process</td>
<td>3</td>
</tr>
<tr>
<td>EPI0010</td>
<td>Foundations of Research-Based Practices in Reading</td>
<td>3</td>
</tr>
<tr>
<td>EPI0020</td>
<td>Professional Foundations</td>
<td>2</td>
</tr>
<tr>
<td>EPI0940</td>
<td>Field Experience 1</td>
<td>1</td>
</tr>
<tr>
<td>EPI0030</td>
<td>Diversity in the Classroom</td>
<td>2</td>
</tr>
<tr>
<td>EPI0945</td>
<td>Field Experience 2</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Program Credits: 21

For individualized course sequence CLICK HERE

Employment Opportunities
Employment opportunities include working as a certified teacher in a public, charter or private K-12 school setting.

Career Path Notes
Students who successfully complete the program will be eligible to apply for their Florida Professional Educator Certificate.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Introductory 40 Hour Childcare-Birth to 5 Years PSAV
40-Hour Introductory Child Care Training Certification (Birth To 5 Years) (5348)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Childcare

Program Description
This PSAV program fulfills the child care training required by the Florida Department of Children and Families for child care providers working in a licensed child care facility. Child care providers serving children birth to 5 years old must complete: Part I Rules and Regulation-Center Based, Part II Introduction to Child Care Worker Certification, and Part III 10-Hour Component.

PART I – RULES AND REGULATION-CENTER BASED
This course fulfills Part I of three parts required to complete the 40-Hour Introductory Child Care Training mandated by the Department of Children and Families for child care workers. This course is designed to give child care facility providers an overview of state and local rules and regulations that govern the child care industry. It does not offer a formal award.

PART II – INTRODUCTION TO CHILD CARE WORKER CERTIFICATION
This course fulfills Part II of three parts required to complete the 40-Hour Introductory Child Care Training mandated by the Department of Children and Families for child care workers. This course combines the Introductory Child Care training with the 10-Hour Behavioral Observation and Screening component for a total of 24 hours of training. This course provides training on identifying and reporting child abuse and neglect; health, safety, and nutrition; child growth and development as well as behavioral observation and screening techniques.

PART III – 10-HOUR APPROPRIATE PRACTICES
These courses complete Part III of the 40-Hour Introductory Child Care Training mandated by the Department of Children and Families for child care worker certification necessary for employment in a licensed child care facility. This component includes appropriate practices for preschool, school-age children, infants and toddlers and children with special needs. It does not offer a formal award.

**Please note: The 10-Hour Preschool Appropriate Practices is required for students interested in participating in the Early Childhood Professional Certificate (ECPC).**

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:

- Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

After registering and paying the applicable tuition fee, students must ALSO register for the class on the Department of Children and Families website: www.myflorida.com/childcare/training. For additional information regarding scheduling the exam, visit www.palmbeachstate.edu/programs/Childcare (select Child Care Exam).

Completion Requirements
Students are required to successfully pass with a score of 70 percent or better the state-mandated competency tests to be awarded their child care certification to work in a licensed child care facility.

For all information related to the competency exam required for childcare certification visit www.myflorida.com/childcare/Training or www.palmbeachstate.edu/programs/Childcare (select Child Care Exam).

Program Length
Total program hours: 40.

Location
The program is offered at all Palm Beach State campuses.

For More Information
Luisa Brennan, brennanl@PalmBeachState.edu, (561) 868-4048
Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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</thead>
<tbody>
<tr>
<td>HEV0114</td>
<td>Part 1 - Introduction to Child Care</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Rules &amp; Regulations for Center-Based</td>
<td></td>
</tr>
<tr>
<td>HEV0115</td>
<td>Part 2 - Child Care Certification</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Introductory Child Care Worker Certification</td>
<td></td>
</tr>
<tr>
<td>HEV0004</td>
<td>Part 3 - Appropriate Practices Component-Student Specialty (Option 1)</td>
<td>5</td>
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<tr>
<td></td>
<td>Complete:</td>
<td></td>
</tr>
<tr>
<td>HEV0002</td>
<td>Understanding Developmentally Appropriate Practices</td>
<td>5</td>
</tr>
<tr>
<td>HEV0001</td>
<td>Preschool Appropriate Practices</td>
<td>5</td>
</tr>
<tr>
<td>HEV0003</td>
<td>Infant/Toddler Appropriate Practices</td>
<td>5</td>
</tr>
<tr>
<td>HEV0003</td>
<td>School Age Appropriate Practices</td>
<td>5</td>
</tr>
<tr>
<td>OR</td>
<td>(Option 2)</td>
<td></td>
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<tr>
<td>HEV0123</td>
<td>10-Hour Special Needs Appropriate Practices</td>
<td>10</td>
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</tbody>
</table>

Total Program Clock Hours: 40

For individualized course sequence **CLICK HERE**

**Gainful Employment**

Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**

Palm Beach State has additional credit child care and education programs

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Pre-School CCC**

**Pre-School (6368)**

**Type of Award**
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Childcare

Program Description
This college credit certificate (CCC) program consists of coursework in curriculum, environments and areas of child development associated with pre-school children. This CCC provides college-level courses in child development, curriculum, classroom environments, adult-child interaction and parent relationships.

Admission Requirements
* Have a standard high school diploma or GED;
* Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 12.

Location
The program is offered at all Palm Beach State campuses.

For More Information
Dr. Colleen Fawcett, fawcettc@PalmBeachState.edu. 561) 868-3349

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC1001</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EEC1300</td>
<td>Early Childhood Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>EEC1311</td>
<td>Early Childhood Science, Social Studies and Math</td>
<td>3</td>
</tr>
<tr>
<td>EEC1312</td>
<td>Early Childhood Fine Arts &amp; Movement</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence CLICK HERE

Employment Opportunities
The student who completes the CCC for pre-school children will increase his or her marketability when searching for positions as lead teacher and assistant teacher caring for pre-school children.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
These 12 credits can be applied to the A.S. degree in Early Childhood Education with a specialization in Pre-School.
School Age Professional Certification PSAV

School Age Professional Certificate (5373)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Description
The Department of Education School Age Professional Certificate (SAPC) program prepares the student who works with children 5 years and up in a licensed afterschool program. The student must successfully complete the 40-Hour introductory certification training (Part 1 - School Age Program Certification & Part 2 - Foundations of Advancing Youth Development (AYD) Principles); 80 hours of formal instruction in the six competency goals of SAPC coursework, document 480 hours of work experience in an afterschool program, formal interview, professional resource file/portfolio and complete all other Palm Beach State requirements. Upon completion of the program the student will be awarded a Department of Education School Age Professional Certificate.

Students can complete Group A under the School Age Professional Certificate and fulfill the child care training required by the Florida Department of Children and Families for afterschool providers working with children and youths ages 5 years old and up in a licensed child care facility.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements

Group A:
No high school diploma or GED is required. Students must:
• Complete an Application of Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
• 40 Hour School-Age Certification (Part I: School-Age Certification; Part II: Foundations of Advancing Youth Development Principles - AYD) OR 40 Hour Child Care Training (birth-5) and the Foundations of Advancing Youth Development (AYD).

After registering and paying the applicable tuition fee, students must ALSO register for the class on the Department of Children and Families web site: www.myflorida.com/childcare/Training. This is required for the Part I: School-Age Certification ONLY and does not apply to the Part II: AYD. For additional information regarding scheduling the exam, please visit www.palmbeachstate.edu/programs/Childcare

Group B:
These requirements must be met before registering for the SAPC program:
PREREQUISITES
• Change Program Objective Code
• SAPC Information Session
• 40-Hour School-Age Certificate or 40-Hour Child Care Training (birth-5) including the 10-Hour DAP in School Age
• 10-Hour DAP in School-Age (if not included in original 40-hour certification)
• High school diploma (or equivalent) and College Application submitted to Palm Beach State www.palmbeachstate.edu/admissions/Admissions-Applications.aspx
• Employed in a licensed child care setting or afterschool program caring for school-age children 5-12 years
• Must be at least 18 years of age or older
• Mastery of the English language
An official high school diploma or GED transcript must be on file at the Registrar’s Office. The transcript must show that the student graduated with a standard diploma from an accredited high school accepted by Palm Beach State. The transcript must be received and accepted by the registrar before registering for Module 1.

Completion Requirements
Students must successfully pass both SAPC modules with a passing grade of A, B, or C and complete all additional requirements for each of the modules in order to be eligible to continue in the program. Once the student has successfully passed each module, a Department of Education School Age Professional Certificate (SAPC) will be awarded.

Completion Requirements for those students wishing to complete Group A courses only:
• Students are required to successfully pass with a score of 70 percent or better the state mandated competency tests to be awarded their Part I: School Age Child Care Certification.
For all information related to the competency exam required for child care certification go to the Department of Children and Families website: www.myflorida.com/childcare/Training.
For additional information regarding scheduling the exam visit: www.palmbeachstate.edu/programs/Childcare.
• Students are required to successfully pass with a score of 70 percent or better the exam for Part 2 Foundations of Advancing Youth Development (AYD) administered the last class session.
• Certification will be awarded to those students passing the required exam for both Part I & II classes.

Program Length
Total program hours: 120.

Location
The program is offered at all Palm Beach State campuses.

For More Information
Luisa Brennan, brennanl@PalmBeachState.edu, (561) 868-4048 (Group A)
Kimberly Allen, allenk@PalmBeachState.edu, (561) 868-4049 (Group B)

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Group A (Both courses must be completed for DCF Certification)</th>
<th>Clock Hours: 120</th>
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<tbody>
<tr>
<td>HEV0803</td>
<td>Part 1 - School Age Program Certification</td>
<td>28</td>
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<tr>
<td>HEV0804</td>
<td>Part 2 - Foundations of Advancing Youth Development (AYD) Principles</td>
<td>12</td>
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<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group A2** (All three courses must be completed for DCF Certification)</td>
<td></td>
</tr>
<tr>
<td>HEV0114</td>
<td>Rules &amp; Regulations for Center-Based</td>
<td>6</td>
</tr>
<tr>
<td>HEV0115</td>
<td>Introductory Child Care Worker Certification</td>
<td>24</td>
</tr>
<tr>
<td>HEV0004</td>
<td>Understanding Developmentally Appropriate Practices</td>
<td>5</td>
</tr>
</tbody>
</table>

Select one of the following Developmental Appropriate Practices (DAPs):
### AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEV0001</td>
<td>Infant/Toddler Appropriate Practices</td>
<td>5</td>
</tr>
<tr>
<td>HEV0002</td>
<td>Preschool Appropriate Practices</td>
<td>5</td>
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<tr>
<td>HEV0003</td>
<td>School Age Appropriate Practices</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Group A Total</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Group B</strong></td>
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<tr>
<td>HEV0194</td>
<td>School Age Professional Certificate Mod 1</td>
<td>40</td>
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<tr>
<td>HEV0195</td>
<td>School Age Professional Certificate Mod 2</td>
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<tr>
<td></td>
<td><strong>Group B Total</strong></td>
<td>80</td>
</tr>
</tbody>
</table>

**Students completing Group A2 are required to take HEV0804 Foundations of Advanced Youth Development (12) to comply with the local and state requirements.**

**Total Program Clock Hours: 120**

For individualized course sequence [CLICK HERE](#)

### Gainful Employment

Program length excludes this program from gainful employment reporting requirements.

### Career Path Notes

The student who has earned a Department of Education SAPC Certificate from Palm Beach State can receive college credits toward an Associate in Science degree (A.S.) in Human Services with a concentration in Youth Development (2374). The articulation will be processed upon request once students have completed 15 college credits toward the A.S. degree (2374). For more information call (561) 868-4049.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Youth Development CCC

**Youth Development (6387)**

### Type of Award

- CCC - College Credit Certificate

### Program Website

[www.palmbeachstate.edu/programs/HumanServices](http://www.palmbeachstate.edu/programs/HumanServices)

### Program Description

This college credit certificate program is designed to be the first educational step to a professional career in Human Services with emphasis in Youth Services or other positions that are a part of the social services delivery. This program will focus on broad introductory principles of human services specific to best practices and techniques in youth development. Course work will prepare students to function as youth workers using a youth development...
approach in community-based, residential, group home and other youth environments. The program examines established quality standards and best practices and their practical application in Youth programming.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

Approximate program length: 18 months.

**Location**

The program is offered at the Lake Worth campus.

**For More Information**

Suzie Duff, duffs@PalmBeachState.edu, (561) 868-3461.

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUS1001</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUS1203</td>
<td>Principles of Group Facilitation</td>
<td>3</td>
</tr>
<tr>
<td>HUS1640</td>
<td>Principles of Youth Work</td>
<td>3</td>
</tr>
<tr>
<td>HUS1620</td>
<td>Principles and Best Practices in Afterschool Programs</td>
<td>3</td>
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<tr>
<td>EDF1030</td>
<td>Behavior Management in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>DEP2004</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology *</td>
<td>3</td>
</tr>
<tr>
<td>SYG2010</td>
<td>American Social Problems *</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850</td>
<td>Field Work in Human Services 1</td>
<td>3</td>
</tr>
<tr>
<td>HUS1850L</td>
<td>Field Work in Human Services 1 Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 30

*Students will need to provide adequate English and Reading placement test scores or complete ENC1101 before enrolling in this course.

For individualized course sequence **[CLICK HERE](#)**

**Employment Opportunities**

Upon completion of this program, you may seek employment in social service agencies, government and community agencies, group homes, afterschool programs and educational settings. Some job titles include: Outreach Worker, Recreation Worker, Youth Program Assistant, Family Support Worker, Job Coach, Residential Worker, and Team/Group Facilitator.

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

**Career Path Notes**

Credits earned in this certificate program will transfer into the Associate in Science (A.S.) degree in Human Services.

**Career Center**

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Cisco Certified Entry Network Technician (CCENT) CCC

Cisco Certified Entry Network Technician (CCENT) (6542)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This college credit certificate consists of four modules. The program is designed to teach students the skills necessary to design, build and maintain small to medium-sized networks. The knowledge gained will allow networking for the Small Office, Home Office (SOHO) market and the ability to work in small businesses or organizations with networks of fewer than 100 nodes.

Based on the Cisco Networking Academy materials, this CCC has courses in networking, network terminology and protocols, network standards, local-area networks, wide area networks, Open System Interconnection models, cabling, cabling tools, Cisco routers, router configuration, Cisco switches and configuring switches. This course covers the competencies for the Cisco CCENT certification.

Admission Requirements

• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/Admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Approximate program length is one year.

Location
The program is offered at the Lake Worth campus.

For More Information
Ali Fazelpour, fazelpoura@palmbeachstate.edu, (561) 868-3220

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CTS1650</td>
<td>Cisco Networking 1</td>
<td>3</td>
</tr>
<tr>
<td>CTS2651</td>
<td>Cisco Networking 2</td>
<td>3</td>
</tr>
</tbody>
</table>
Total Program Credits: 15

**Employment Opportunities**
Employment opportunities include network administration and networking infrastructure support.

**Career Path Notes**
Credits in this certificate program will transfer directly into the Cisco Certified Network Administrator (CCNA) Routing and Switching CCC and/or Associate in Science (A.S.) degree in Networking Administrator.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Cisco Certified Network Associate (CCNA) Routing and Switching CCC**

Cisco Certified Network Associate (CCNA) Routing and Switching (6135)

**Type of Award**
CCC - College Credit Certificate

**Program Website**
[www.palmbeachstate.edu/programs/ComputerScience](http://www.palmbeachstate.edu/programs/ComputerScience)

**Program Description**
This college credit certificate consists of four modules. The program is designed to teach students the skills necessary to design, build, and maintain small to medium-sized networks. The knowledge gained will allow networking for the Small Office, Home Office (SOHO) market and the ability to work in small businesses or organizations with networks of fewer than 100 nodes. Based on the Cisco Networking Academy materials, this CCC has courses in networking, network terminology and protocols, network standards, local-area networks, wide area networks, Open System Interconnection models, cabling, cabling tools, Cisco routers, router programming, Cisco switches, and configuring switches. This course covers the competencies for the Cisco CCNA certification.

**Admission Requirements**
Have a standard high school diploma or GED;
Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Approximate program length: nine months.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Alireza Fazelpour, fazelpoa@palmbeachstate.edu, (561) 868-3220

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**
Credits: 21
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CTS1650</td>
<td>CISCO Networking 1</td>
<td>3</td>
</tr>
<tr>
<td>CTS2651</td>
<td>CISCO Networking 2</td>
<td>3</td>
</tr>
<tr>
<td>CTS2652</td>
<td>CISCO Networking 3</td>
<td>3</td>
</tr>
<tr>
<td>CTS2653</td>
<td>CISCO Networking 4</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 21

**Employment Opportunities**

Employment opportunities include network administration and networking infrastructure support.

**Gainful Employment**

Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**

Credits earned in this certificate will transfer directly into the Associate in Science (A.S.) degree in Networking Administrator.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Cisco Certified Network Associate (CCNA) Security CCC**

**Cisco Certified Network Associate (CCNA) Security (6540)**

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/ComputerScience](http://www.palmbeachstate.edu/programs/ComputerScience)

**Program Description**

This college credit certificate consists of five courses and is designed to teach students the skills necessary for entry level positions in the field of Cisco security.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/Admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/Admissions/Admissions-Applications.aspx).

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

Students may complete the program in two semesters, six to nine months.
**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Ali Fazelpour, fazelpoura@palmbeachstate.edu, (561) 868-3220

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CTS1650</td>
<td>CISCO Networking 1</td>
<td>3</td>
</tr>
<tr>
<td>CTS2651</td>
<td>CISCO Networking 2</td>
<td>3</td>
</tr>
<tr>
<td>CTS2664</td>
<td>Router and Switch Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 15

**Employment Opportunities**
Employment opportunities include network administration and security positions.

**Career Path Notes**
Credits in this certificate program will transfer directly into the Associate in Science (A.S.) degree in Networking Administrator.

Students who complete this certificate cannot be awarded the Information Technology Technician CCC 6143.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

**Computer Information Security ATC**

**Type of Award**
ATC - Advanced Technical Certificate

**Program Website**
www.palmbeachstate.edu/programs/ComputerScience

**Program Description**
This advanced technical certificate program focuses on the critical need for security policies, implementation techniques, intrusion detection and prevention, vulnerabilities, encryption, authentication, compromised networks, and different tools to address these topics. Students will learn to recognize computer attacks, identify intrusion methods, prevent network attacks, respond to computer attacks and use security tools.

**Program Learning Outcomes**
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**Admission Requirements**
- Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

In addition to the above requirements, students must have one of the following:
• An A.S. degree or higher in an unrelated field with substantial work experience in a computer-related field.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Total program credits: 12.

**Location**
The program is offered at the Lake Worth and Boca Raton campuses.

**For More Information**
Ali Fazelpour, fazelpoa@PalmBeachState.edu, (561) 862-4436

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNT2401   Computer Network Security Policy Development       3</td>
<td></td>
</tr>
<tr>
<td>CNT2407   Information Security Implementation and Standards   3</td>
<td></td>
</tr>
<tr>
<td>CNT2404   Network Attacks and Introduction to TCP/IP Security 3</td>
<td></td>
</tr>
<tr>
<td>CNT2405   Intrusion Detection Systems, Countermeasures and PKI 3</td>
<td></td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence [CLICK HERE]

**Employment Opportunities**
Upon completion of this program, you may seek employment as an information security technician, information security administrator, information security manager or chief information security officer based on the certificate and your previous work experience and degrees.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
A course or courses from other Computer Science programs at Palm Beach State may transfer into this program.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Computer Programing Specialist CCC

**Computer Programming Specialist (6141)**

**Type of Award**
- CCC - College Credit Certificate

**Program Website**
- [www.palmbeachstate.edu/programs/ComputerScience](http://www.palmbeachstate.edu/programs/ComputerScience)

**Program Description**
This college credit certificate program prepares students to analyze business situations and to design, develop and write computer programs. Individuals learn to store, locate and retrieve specific documents, data and information, analyze problems using logic/analysis tools, and write code in several computer languages. They also learn how to test, monitor, debug, document and maintain computer programs. Course content includes computer programming concepts and programming languages.

This certificate covers the core competencies for programming but does not contain General Education requirements.

**Admission Requirements**
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Application.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Application.aspx).

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Approximate program length: one year.

**Location**
The program is offered at the Lake Worth and Boca Raton campuses.

**For More Information**
Dr. Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications 3</td>
</tr>
<tr>
<td>COP1000</td>
<td>Introduction to Programming Logic 3</td>
</tr>
<tr>
<td>COP2840</td>
<td>Server-side Programming * 3</td>
</tr>
<tr>
<td>Electives - Choose 9 credits</td>
<td>Any three COP programming classes 9</td>
</tr>
</tbody>
</table>

Total Program Credits: 18

*Student will need to complete COP1220, COP1332, COP2334, COP2800 or COP2831 to enroll in this certificate course.

For individualized course sequence CLICK HERE

**Employment Opportunities**
This program prepares students for employment as entry-level programmers, programmer specialists or computer programmers.

**Career Path Notes**
Credits earned in this certificate will transfer directly into the Programming College Credit Certificate and the Associate in Science (A.S.) degree in Programming.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

**Computer Programming AS**

**Computer Programming (AS 2126)**

**Type of Award**
AS - Associate in Science

**Program Website**
www.palmbeachstate.edu/programs/ComputerScience

**Program Description**
This degree program prepares students to analyze business situations and to design, develop and write computer programs. Individuals learn to store, locate and retrieve specific documents, data and information, analyze problems using logic/analysis tools, and write code in several computer languages. They also learn how to test, monitor, debug, document and maintain computer programs.

Computer programming course content includes computer programming concepts, programming languages and software project management.

**Program Learning Outcomes**
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**Admission Requirements**
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
The program can be finished in two years of full-time enrollment or three years part time.

**Location**
The program is offered at the Lake Worth and Boca Raton campuses.

**For More Information**
Dr. Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1 (A.S. students)</td>
<td>3</td>
</tr>
</tbody>
</table>
### Areas of Study

**Required Courses**

- **Credits: 21**
  - **CGS1100** Microcomputer Applications 3
  - **COP1000** Introduction to Programming Logic 3
  - **CIS2321** Systems and Applications 3
  - **COP2700** SQL Database Techniques 3
  - **CIS2513** Information Technology Project Management 3
  - **CNT2000** Network Technologies 3
  - **CTS2301** UNIX Installation and Administration Using LINUX 3

### Programming Languages - Choose 15 credits

- **Credits: 15**
  - **COP1220** Introduction to Programming in C 3
  - **COP2334** Programming in C++ 3
  - **COP2800** Programming in Java 3
  - **COP2840** Server-side Programming 3
  - **COP1332** Visual Basic Programming 3
  - **COP2805** Advanced Java Programming 3
  - **COP2831** Advanced Web Page Applications (XML and JavaScript) 3
  - **COP2360** C# Programming 3
  - **COP2660** Android Programming 3
  - **COP2654** Objective C Programming 3

### Business/Computer Electives

- **Credits: 9**
  - Choose 9 Credits*
  - Any courses with the prefix CIS, CGS, CNT, COP, CTS, ACG, APA, ECO, or GEB 9

**Total Program Credits: 63**

* A course cannot be used more than once in the program.
**Employment Opportunities**

The purpose of this program is to prepare students for employment as entry-level programmers, programmer specialists or computer programmers.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science programs in Information Management or Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Information Management CCC**

**Information Management (6136)**

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/ComputerScience](http://www.palmbeachstate.edu/programs/ComputerScience)

**Program Description**

This college credit certificate program prepares individuals to plan, install, configure, monitor, troubleshoot and manage computer networks in a LAN/WAN environment. Students will be prepared to apply conceptual and theoretical knowledge to the workplace utilizing technical skills learned during the program. This certificate covers the core competencies for networking, but does not contain General Education requirements.

Course content includes computer hardware concepts, networking terminology, Microsoft Windows Server and Active Directory implementation and administration, Linux implementation and administration, and network security. These courses cover competencies for several certifications: A+, Network+, MCP and MCSA.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

Approximate program length: one year.

**Location**

The program is offered at the Lake Worth and Boca Raton campuses.

**For More Information**

Dr. Elizabeth Horvath, [horvathe@PalmBeachState.edu](mailto:horvathe@PalmBeachState.edu), (561) 868-3228
To see when the course is offered, click the course number. To see a course description, click the course title.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COP1000</td>
<td>Introduction to Programming Logic</td>
<td>3</td>
</tr>
<tr>
<td>CTS1110</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CNT2402</td>
<td>Implementing and Administering Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CTS2334</td>
<td>Local Area Networks</td>
<td>3</td>
</tr>
<tr>
<td>CTS2320</td>
<td>Wide Area Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 24

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Employment opportunities include information technology specialists, network technicians, network specialists, network managers, network systems analysts, network systems technicians, network support specialists, network administrators, network troubleshooters, help desk specialists, LAN/WAN managers, or systems administrators.

### Gainful Employment

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

### Career Path Notes

Credits earned in this certificate will transfer directly into the Associate in Science (A.S.) degree in Networking Administrator.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Information Security CCC

#### Information Security (6541)

- **Type of Award**
  - CCC - College Credit Certificate

- **Program Website**
  - [www.palmbeachstate.edu/programs/ComputerScience](http://www.palmbeachstate.edu/programs/ComputerScience)

- **Program Description**
  - This college credit certificate consists of seven courses and is designed to teach students the skills necessary for entry level positions in the field of network security. Students will learn and demonstrate proficiency in programming, network design and operations, cyber security, ethical hacking, and penetration testing.
Admission Requirements

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/Admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Students may complete the program in two semesters, six to nine months.

Location
The program is offered at the Lake Worth campus.

For More Information
Elizabeth Horvath, horvathe@palmbeachstate.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COP1000</td>
<td>Introduction to Programming Logic</td>
<td>3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CTS2334</td>
<td>Local Area Networks</td>
<td>3</td>
</tr>
<tr>
<td>CTS2120</td>
<td>Security Essentials</td>
<td>3</td>
</tr>
<tr>
<td>CTS2314</td>
<td>Attack Prevention and Detection</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 21

Employment Opportunities
Employment opportunities include network administration and security positions.

Career Path Notes
Credits in this certificate program will transfer directly into the Associate in Science (A.S.) degree in Networking Administrator.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Information Technology Administration CCC

Information Technology Administration (6142)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This college credit certificate prepares students to work in Internet and intranet environments. The student will learn how to design web pages and utilized applications to create dynamic web pages. Course content includes computer programming concepts, web design languages and web page design. This certificate covers the core competencies for basic web page development but does not contain General Education requirements.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Application.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Approximate program length: one year.

Location
The program is offered at the Lake Worth and Boca Raton campuses.

For More Information
Dr. Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
</tr>
<tr>
<td>3</td>
<td>COP1000</td>
<td>Introduction to Programming Logic</td>
</tr>
<tr>
<td>3</td>
<td>CGS2555</td>
<td>Introduction to the Internet</td>
</tr>
<tr>
<td>3</td>
<td>CGS1800</td>
<td>Introduction to Web Site Development</td>
</tr>
<tr>
<td>3</td>
<td>COP2822</td>
<td>Web Site Design</td>
</tr>
<tr>
<td>3</td>
<td>CGS2801</td>
<td>Advanced Web Page Media</td>
</tr>
</tbody>
</table>

Total Program Credits: 18

For individualized course sequence

Employment Opportunities
This program prepares students for employment as web site developers and web page designers.

Career Path Notes
Credits earned in this certificate will transfer directly into the Web Development Specialist College Credit Certificate and the Associate in Science (A.S.) degree in Internet Services Technology.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
Information Technology Technician CCC

Information Technology Technician (6143)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This college credit certificate program prepares individuals to plan, install, configure, monitor, troubleshoot and manage computer networks in a LAN/WAN environment. Students will be prepared to apply conceptual and theoretical knowledge to the workplace utilizing technical skills learned during the program. This certificate covers the core competencies for networking, but does not contain General Education requirements.

Course content includes computer hardware concepts, networking terminology, Microsoft Windows Server and Active Directory implementation and administration, Linux implementation and administration, and network security. These courses cover competencies for several certifications: A+ and Network.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Application.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Approximate program length: one year.

Location
The program is offered at the Lake Worth and Boca Raton campuses.

For More Information
Dr. Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CTS1110</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CTS1150</td>
<td>Computer Maintenance and Repair</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CNT2402</td>
<td>Implementing and Administering Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2334</td>
<td>Local Area Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 21
Internet Services Technology AS

Internet Services Technology  (AS 2122)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This degree program teaches students to install and configure web servers (Linux Apache and Microsoft IIS), write client and server-side scripts, design web pages, implement web site security and manage intranet and web-based resources.
Course content includes computer programming concepts, web design languages, computer programming, web page design, server-side and client side scripting, and network security.

Program Learning Outcomes
For detailed information, visit  www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth and Boca Raton campuses.

For More Information
Dr. Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education
Credits: 18
Any course from Social Science - Area V  3

ENC1101  College Composition I (A.S. Students)  3

Any course from Mathematics - Area III  3

Any course from Humanities - Area II  3

SPC1017  Fundamentals of Speech Communication  3

HSC1101  Contemporary Issues in Health

-or-

HSC2100  Health Concepts and Strategies  3

Required Courses  Credits: 39

COP2840  Server-side Programming  3

CGS1100  Microcomputer Applications  3

COP1000  Introduction to Programming Logic  3

CGS2555  Introduction to the Internet  3

CGS1800  Introduction to Web Site Development  3

COP1220  Introduction to Programming in C  3

CNT2000  Network Technologies  3

CIS2321  Systems and Applications  3

COP2822  Web Site Design  3

CGS2802  Web Site Administration  3

CNT2402  Implementing and Administering Network Security  3

CGS2801  Advanced Web Page Media  3

COP2831  Advanced Web Page Applications (XML and JavaScript)  3

Business/Computer/Art Electives - 6 Credits Required  Credits: 6

Any courses with the prefix CIS, CGS, CNT, COP, CTS, ACG, APA, ECO, GEB, ART, or GRA*  6

Total Program Credits: 63

*A course cannot be used more than once in the program.

Employment Opportunities

Employment opportunities include Internet/intranet administrators, web site administrators, Internet/intranet developers, web site developers, webmasters, Internet support specialists, web page designers, web managers, or web architects. The content prepares individuals to work in Internet and intranet environments.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science programs in Information Management or Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor.
In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Java Programming CCC

Java Programming (6144)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This college credit certificate program prepares students to analyze business situations and to design, develop and write Java applications for desktop, Web and mobile devices.

This certificate covers the core competencies for programming but does not contain General Education requirements.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in two semesters.

Location
The program is offered at the Boca Raton and Lake Worth campus.

For More Information
Contact the Computer Science Department at (561) 862-4437.

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications 3</td>
</tr>
<tr>
<td>COP1000</td>
<td>Introduction to Programming Logic 3</td>
</tr>
<tr>
<td>COP2822</td>
<td>Web Site Design 3</td>
</tr>
<tr>
<td>COP2800</td>
<td>Programming in Java 3</td>
</tr>
<tr>
<td>COP2805</td>
<td>Advanced Java Programming 3</td>
</tr>
</tbody>
</table>
Employment Opportunities
This program prepares students for employment as entry-level programmers, programmer specialists or computer programmers.

Career Path Notes
Credits earned in this certificate will transfer directly into the Programming College Credit Certificate and the Associate in Science (A.S.) degree in Programming.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Mobile Application Development CCC
Mobile Application Development (6145)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This college credit certificate program prepares students to design, develop and write mobile applications to appeal for both the Android and iOS platforms.

This certificate covers the core competencies for programming but does not contain General Education requirements.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be completed in three semesters.

Location
The program is offered at the Boca Raton and Lake Worth campus.

For More Information
Contact the Computer Science Department at (561) 862-4437.

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
COP2831 Advanced Web Page Applications (XML and JavaScript) 3
COP2660 Android Programming 3

Total Program Credits: 21
AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>CGS1100</td>
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<td>3</td>
</tr>
<tr>
<td>COP1000</td>
<td>Introduction to Programming Logic</td>
<td>3</td>
</tr>
<tr>
<td>COP2800</td>
<td>Programming in Java</td>
<td>3</td>
</tr>
<tr>
<td>COP2660</td>
<td>Android Programming</td>
<td>3</td>
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<tr>
<td>COP2654</td>
<td>Objective C Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2840</td>
<td>Server-side Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2831</td>
<td>Advanced Web Page Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(XML and JavaScript)</td>
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<tr>
<td>COP2664</td>
<td>iOS Programming</td>
<td>3</td>
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<tr>
<td>COP2657</td>
<td>Cross Platform Mobile App Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 27

Employment Opportunities
This program prepares students for employment as entry-level programmers, programmer specialists or computer programmers.

Career Path Notes
Credits earned in this certificate will transfer directly into the Programming College Credit Certificate and the Associate in Science (A.S.) degree in Programming.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Networking Administrator AS

Networking Administrator (AS 2123)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This degree prepares students to plan, install, configure, monitor, troubleshoot and manage computer networks in a LAN/WAN environment. Students will be prepared to apply conceptual and theoretical knowledge to the workplace utilizing technical skills learned during the program.
Course content includes computer hardware concepts, networking terminology, Microsoft Windows Server and Active Directory implementation and administration, Linux implementation and administration, and network security. These courses cover competencies for several certifications: A+, Network+, MCP, and MCSA.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
• Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth and Boca Raton campuses.

For More Information
Dr. Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1 (A.S. students) 3</td>
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<tr>
<td></td>
<td>Any course from Mathematics - Area III 3</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication 3</td>
</tr>
<tr>
<td></td>
<td>Any course from Social Science - Area V 3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II 3</td>
</tr>
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<td>HSC1101</td>
<td>Contemporary Issues in Health -or-</td>
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<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies 3</td>
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</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
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</thead>
<tbody>
<tr>
<td>CIS2321</td>
<td>Systems and Applications 3</td>
</tr>
<tr>
<td>CTS2334</td>
<td>Local Area Networks 3</td>
</tr>
<tr>
<td>CTS2320</td>
<td>Wide Area Networks 3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX 3</td>
</tr>
<tr>
<td>CNT2700</td>
<td>TCP/IP and Network Administration 3</td>
</tr>
<tr>
<td>CNT2402</td>
<td>Implementing and Administering Network Security 3</td>
</tr>
<tr>
<td>CTS1110</td>
<td>Microcomputer Operating Systems 3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies 3</td>
</tr>
<tr>
<td>CTS1150</td>
<td>Computer Maintenance and Repair 3</td>
</tr>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications 3</td>
</tr>
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</table>
**COP1000**  
Introduction to Programming Logic  
3

Business/Computer Electives - 12 Credits Required

Any courses with the prefix CIS, CGS, CNT, COP, CTS, ACG, APA, ECO, or GEB*  
12

Total Program Credits: 63

*A course cannot be used more than once in the program.

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

This program prepares students for employment as information technology specialists, network technicians, network specialists, network managers, network systems analysts, network systems technicians, network support specialists, network administrators, network troubleshooters, help desk specialists, LAN/WAN managers, or systems administrators.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science programs in Information Management or Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Programming CCC**

**Programming (6137)**

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/ComputerScience](http://www.palmbeachstate.edu/programs/ComputerScience)

**Program Description**

This college credit certificate program prepares students to analyze business situations and to design, develop and write computer programs. Individuals learn to store, locate, and retrieve specific documents, data, and information, analyze problems using logic/analysis tools, and write code in several computer languages. They also learn how to test, monitor, debug, document and maintain computer programs.

Course content includes computer programming concepts, programming languages and software project management.

This certificate covers the core competencies for programming but does not contain General Education requirements.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/programs](http://www.palmbeachstate.edu/programs)
Conclusion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Approximate program length: 18 months

Location
The program is offered on the Lake Worth and Boca Raton campuses.

For More Information
Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COP1000</td>
<td>Introduction to Programming Logic</td>
<td>3</td>
</tr>
<tr>
<td>CIS2321</td>
<td>Systems and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CTS2301</td>
<td>UNIX Installation and Administration Using LINUX</td>
<td>3</td>
</tr>
</tbody>
</table>

Programming Languages - Choose 12 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>COP1220</td>
<td>Introduction to Programming in C</td>
<td>3</td>
</tr>
<tr>
<td>COP2334</td>
<td>Programming in C++</td>
<td>3</td>
</tr>
<tr>
<td>COP2800</td>
<td>Programming in Java</td>
<td>3</td>
</tr>
<tr>
<td>COP2840</td>
<td>Server-Side Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP1332</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2805</td>
<td>Advanced Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2831</td>
<td>Advanced Web Page Applications (XML and JavaScript)</td>
<td>3</td>
</tr>
<tr>
<td>COP2360</td>
<td>C# Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2660</td>
<td>Android Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2654</td>
<td>Objective C Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP2700</td>
<td>SQL Database Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 27

Employment Opportunities
This program prepares students for employment as entry level programmers, programmer specialists or computer programmers.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit www.palmbeachstate.edu/areasofstudy/GainfulEmployment.
Web Development Specialist CCC

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ComputerScience

Program Description
This college credit certificate prepares students to work in Internet and intranet environments. The student will
learn how to install and configure web servers (Linux Apache and Microsoft IIS), write client and server-side scripts,
design web pages, implement web site security, and manage intranet and web-based resources. Course content includes computer programming concepts, web design languages, computer programming, Web
design, server-side and client side scripting and network security. This certificate covers the core competencies for web development, but does not contain General Education
requirements.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Approximate program length: one year.

Location
The program is offered at the Lake Worth and Boca Raton campuses.

For More Information
Elizabeth Horvath, horvathe@PalmBeachState.edu, (561) 868-3228

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>3</td>
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<tr>
<td>COP1000</td>
<td>3</td>
</tr>
<tr>
<td>CGS2555</td>
<td>3</td>
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Credits: 36
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<tr>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CGS1800</td>
<td>Introduction to Web Site Development</td>
<td>3</td>
</tr>
<tr>
<td>COP2822</td>
<td>Web Page Design</td>
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</tr>
<tr>
<td>CNT2000</td>
<td>Network Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CGS2802</td>
<td>Web Site Administration</td>
<td>3</td>
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<tr>
<td>CGS2801</td>
<td>Advanced Web Page Media</td>
<td>3</td>
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<tr>
<td>CNT2402</td>
<td>Implementing and Administering Network Security</td>
<td>3</td>
</tr>
<tr>
<td>COP2831</td>
<td>Advanced Web Page Applications (XML and JavaScript)</td>
<td>3</td>
</tr>
<tr>
<td>COP2840</td>
<td>Server-side Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP1220</td>
<td>Introduction to Programming in C</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 36

**Employment Opportunities**

This program prepares students for employment as Internet/intranet administrators, web site administrators, Internet/intranet developers, web site developers, webmasters, Internet support specialists, web page designers, web managers, or web architects.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Credits earned in this certificate will transfer directly into the Associate in Science (A.S.) degree in Internet Services Technology.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
CREATIVE ARTS AND COMMUNICATIONS

Digital Animation CCC

Digital Animation (6288)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/CreativeArts.

Program Description
This certificate program provides an introduction to professional training in digital animation production for students interested in a career in the film and entertainment industry. In this program, students work alongside professionals using cutting edge equipment and technologies, while learning how to put together an animation project from the ground up.

Because courses are offered on a block schedule, it is recommended that the student enrolls in three or more major courses each term. Course content includes sound, editing, design and business concepts in the motion picture and recording industries.

Students work cooperatively with those enrolled in concurrent courses to complete extensive production projects outside of regular class meetings. These projects follow the professional model for production.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in as little as two semesters of full-time enrollment or two years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Michael Seminerio, Department Chair, seminerm@PalmBeachState.edu, (561) 868-3971

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
Credits: 24
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ART1201C</td>
<td>Design Fundamentals</td>
<td>3</td>
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<tr>
<td>ART1300C</td>
<td>Drawing 1</td>
<td>3</td>
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<tr>
<td>DIG2300C</td>
<td>Principles of 2D Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIG2302C</td>
<td>Principles of 3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIG2370C</td>
<td>Advanced 3D Animation - Character Design and Rigging</td>
<td>3</td>
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<tr>
<td>DIG2322C</td>
<td>Modeling for Real Time Systems</td>
<td>3</td>
</tr>
<tr>
<td>DIG2430C</td>
<td>Digital Story Development for Film Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIG2341C</td>
<td>Introduction to Compositing and Visual Effects</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 24

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Organizations employing graduates include video, film and animation production companies, government and educational agencies, motion pictures, commercial advertising studios and broadcast television stations. Some entry-level positions include animation assistant, assistant VFX editor, resource assistant, rotoscope artist, compositor, technical assistant and production assistant.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Associate in Science Motion Picture Production Technology.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Graphic Design Technology AS**

**Graphic Design Technology (AS 2011)**

**Type of Award**

AS - Associate in Science

**Program Website**

[www.palmbeachstate.edu/programs/GraphicDesign](http://www.palmbeachstate.edu/programs/GraphicDesign)

**Program Description**

This degree program is designed to prepare the student to enter the graphic design field, especially as it relates to the printing industry.

Each student will develop a portfolio, crucial for employment, while enrolled in the program. Course content includes design fundamentals, Macintosh computer applications, typography, photography and color design.

**Program Learning Outcomes**

For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
Have a standard high school diploma or GED;
Complete an Application for Admission, located at

Program/Interview Counseling: Students are required to seek advisement from the graphic design department chair to ensure that they enroll in the necessary courses to graduate on schedule.

Completion Requirements
A grade of C or higher is required to advance in the program. All Macintosh computer courses must be taken within five years of graduation or must be repeated. For exceptions, see department chair. Students should be prepared to take day, evening and summer courses to complete their degree requirements.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Victoria Martin, martinv@PalmBeachState.edu, (561) 868-3924

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
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<td>3</td>
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<tr>
<td>ENC1101 College Composition 1</td>
<td>3</td>
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<tr>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
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<tr>
<td>(MAC1105 recommended) **</td>
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<td>SPC1017 Fundamentals of Speech</td>
<td>3</td>
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<tr>
<td>Communication</td>
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<tr>
<td>Any course from Social Science - Area V (SYG 2000 recommended) **</td>
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<tr>
<td>ART1201C Design Fundamentals (a) (b) *</td>
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<td>ART1205C Color Design (a) (b) *</td>
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<td>GRA2171C Portfolio Composition *</td>
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<td>GRA1190C Graphic Design 1 *</td>
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<td>GRA1530C Typography</td>
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<td>GRA2100C Introduction to Macintosh Graphics</td>
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<td>GRA2121C Publication Design 1</td>
<td>3</td>
</tr>
<tr>
<td>GRA2151C Illustrator 1</td>
<td>3</td>
</tr>
<tr>
<td>GRA2191C Graphic Design 2 *</td>
<td>3</td>
</tr>
<tr>
<td>GRA2156C Photoshop 1</td>
<td>3</td>
</tr>
<tr>
<td>PGY1401C Introduction to Photography (a) *</td>
<td>3</td>
</tr>
</tbody>
</table>
### Electives - Choose 13 credits

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART1301C</td>
<td>Drawing 2</td>
<td>3</td>
</tr>
<tr>
<td>CGS1030</td>
<td>PC Starter</td>
<td>1</td>
</tr>
<tr>
<td>COP2822</td>
<td>Web Page Design (b)</td>
<td>3</td>
</tr>
<tr>
<td>GRA2122C</td>
<td>Publication Design 2</td>
<td>3</td>
</tr>
<tr>
<td>GRA2131C</td>
<td>Multimedia Graphics (a) (b)</td>
<td>3</td>
</tr>
<tr>
<td>GRA2152C</td>
<td>Illustrator 2</td>
<td>3</td>
</tr>
<tr>
<td>GRA2160C</td>
<td>Multimedia Animation (a) (b)</td>
<td>3</td>
</tr>
<tr>
<td>GRA2722C</td>
<td>Dreamweaver (b)</td>
<td>3</td>
</tr>
<tr>
<td>GRA2144C</td>
<td>Graphic Web Design (b)</td>
<td>3</td>
</tr>
<tr>
<td>GRA2157C</td>
<td>Photoshop 2</td>
<td>3</td>
</tr>
<tr>
<td>GRA2940</td>
<td>Graphic Design Internship</td>
<td>3</td>
</tr>
<tr>
<td>GRA2132C</td>
<td>Multimedia Design (a)</td>
<td>3</td>
</tr>
<tr>
<td>GRA2136C</td>
<td>Multimedia Video Editing (a)</td>
<td>3</td>
</tr>
<tr>
<td>PGY2801C</td>
<td>Digital Photography 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 64

(a) Students completing these courses can apply for and receive the Multimedia Arts College Credit Certificate. Those certificate students going onto the AS degree would reduce their elective courses to 1 credit.

(b) Students completing these courses can apply for and receive the Web Design College Credit Certificate. Those certificate students going on to complete the AS degree may substitute GRA 2131 for the required course GRA 2100C and will reduce their elective courses to 1 credit.

* These courses articulate with the B.F.A. Graphic Design Program at Florida Atlantic University.

** Students planning to participate in the transfer agreement with Florida Atlantic University must take MAC 1105 and SYG 2000 to be considered.

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Students who complete this program may find work as graphic designers, artists, web page designers, illustrators, preflight administrator service providers, art directors, freelance designers or junior designers.

### Career Path Notes

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

In addition, the Graphic Design program is approved for transfer to Florida Atlantic University's B.F.A. Graphic Design program. Courses with an asterisk indicate transferability to FAU. For information on transfer agreements, visit [www.palmbeachstate.edu/Transfer](http://www.palmbeachstate.edu/Transfer).

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Graphic Design Technology-Multimedia Arts CCC

**Multimedia Arts (6022)**
Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/GraphicDesign

Program Description
This program introduces the student to multimedia technology and is valuable to the student who plans to enter this field, as well as the student who is already working in the industry and wishes to update his or her skills.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 24. The program can be completed in one year full time.

Location
The program is offered at the Lake Worth campus.

For More Information
Victoria Martin, martinv@PalmBeachState.edu, (561) 868-3924

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
Credits: 24

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART1201C</td>
<td>Design Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ART1300C</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>GRA2131C</td>
<td>Multimedia Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ART1205C</td>
<td>Color Design</td>
<td>3</td>
</tr>
<tr>
<td>GRA1190C</td>
<td>Graphic Design 1</td>
<td>3</td>
</tr>
<tr>
<td>GRA2132C</td>
<td>Multimedia Design</td>
<td>3</td>
</tr>
<tr>
<td>GRA2160C</td>
<td>Multimedia Animation</td>
<td>3</td>
</tr>
<tr>
<td>GRA2144C</td>
<td>Graphic Web Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 24
* Those students going on to the A.S. degree would reduce their A.S elective courses to 1 credit.

Employment Opportunities
Upon completion, students are able to seek entry level positions in graphics/multimedia design.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information,
Career Path Notes
Credits earned in these certificates will transfer directly into the Associate in Science Graphic Design Technology degree.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Graphic Design Technology-Web Design CCC

Web Design (6023)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/GraphicDesign

Program Description
This program introduces the student to web design and the software associated with it and is valuable to the student who plans to enter this field, as well as the student who is already working in the industry and wishes to update his or her skills.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 24. The program can be completed in one year full time.

Location
The program is offered at the Lake Worth campus.

For More Information
Victoria Martin, martinv@PalmBeachState.edu, (561) 868-3924

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART1201C</td>
<td>Design Fundamentals</td>
</tr>
<tr>
<td>ART1300C</td>
<td>Drawing 1</td>
</tr>
<tr>
<td>GRA2131C</td>
<td>Multimedia Graphics</td>
</tr>
<tr>
<td>ART1205C</td>
<td>Color Design</td>
</tr>
<tr>
<td>GRA2144C</td>
<td>Graphic Web Design</td>
</tr>
</tbody>
</table>
GRA2160C Multimedia Animation 3
GRA2722C Dreamweaver 3
Graphic Design Elective (GRA, ART, PGY) 3

Total Program Credits: 24

** Students completing the AS degree with this certificate may substitute GRA 2131 for the required course GRA 2100C. Students pursuing the A.S. will reduce their A.S. elective courses to 1 credit.

For individualized course sequence CLICK HERE

Employment Opportunities
Upon completion, students are able to seek entry level positions in web design.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Credits earned in this certificate will transfer directly into the Associate in Science Graphic Design Technology degree.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Interior Design Technology AS

Interior Design Technology (2012)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/InteriorDesign

Program Description
This degree program offers courses in interior design that focus on professional and technical knowledge, client needs, cost effectiveness, building systems, health, safety and environmental issues, as well as aesthetic principles essential to understanding space planning and the design process. This program was established to meet the educational requirements set by the state of Florida Board of Architecture and Interior Design for interior design licensing.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
Completion Requirements
Students must have a minimum 2.0 GPA in all major coursework. A grade of C or higher is required to advance in the program.

Program Length
The program can be finished in two years of full-time enrollment or three to four years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Zenaida Espinosa, Espinosz@PalmBeachState.edu, (561) 868-3221

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education
Credits: 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARH1000</td>
<td>Art Appreciation</td>
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<tr>
<td>ENC1101</td>
<td>College Composition I</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
</tr>
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<td></td>
<td>-or-</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
</tr>
<tr>
<td></td>
<td>Any course from Social Science - Area V</td>
</tr>
<tr>
<td></td>
<td>Any course from either Mathematics - Area III or Natural Sciences - Area IV, Tier 1 &amp; 2</td>
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</table>

Required Courses
Credits: 60

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>IND1233C</td>
<td>Design Studio 1</td>
</tr>
<tr>
<td>IND1234C</td>
<td>Design Studio 2</td>
</tr>
<tr>
<td>IND1401C</td>
<td>Technical Design 1</td>
</tr>
<tr>
<td>IND1935</td>
<td>Building and Barrier Free Codes</td>
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<tr>
<td>IND2100</td>
<td>History of Interiors I</td>
</tr>
<tr>
<td>IND2130</td>
<td>History of Interiors II</td>
</tr>
<tr>
<td>IND2202C</td>
<td>Kitchen and Bath Design</td>
</tr>
<tr>
<td>IND2237C</td>
<td>Design Studio 3</td>
</tr>
<tr>
<td>IND2238C</td>
<td>Design Studio 4</td>
</tr>
<tr>
<td>IND2307C</td>
<td>Interior Design Graphics</td>
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<tr>
<td>IND2420</td>
<td>Materials, Estimating and Specifications</td>
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<tr>
<td>IND2424C</td>
<td>Technical Design 2</td>
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</table>
**Motion Picture Post-Production Technology CCC**

**Motion Picture Post Production Technology (6019)**

**Type of Award**

- CCC - College Credit Certificate

**Program Website**

www.palmbeachstate.edu/programs/Film

**Program Description**

A certificate can be earned in as little as two semesters. The certificate is valuable to the student who plans to enter the field, as well as the student who is already working in the industry and wishes to update her or his skills.

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Total program credits: 16. The certificate can be earned in as little as one semester.

Location
The program is offered at the Lake Worth campus.

For More Information
Michael Seminerio, Department Chair,  seminerm@PalmBeachState.edu, (561) 868-3971

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FIL2571C</td>
<td>Introduction to Editing</td>
<td>3</td>
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<td>FIL2537C</td>
<td>Introduction to Sound</td>
<td>3</td>
</tr>
<tr>
<td>FIL2561C</td>
<td>Advanced Editing</td>
<td>3</td>
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<tr>
<td>FIL2538C</td>
<td>Advanced Sound for Film</td>
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<td>FIL2000</td>
<td>Film Appreciation</td>
<td>3</td>
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<tr>
<td>FIL2941</td>
<td>Motion Picture Production</td>
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<tr>
<td></td>
<td>Internship 1</td>
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</table>

Total Program Credits: 16

For individualized course sequence

Employment Opportunities
Organizations employing graduates include television stations, video and film production companies, government and educational agencies, motion pictures, and commercial advertising studios.

Some entry level positions include: Audio/Sound Technician, Utility Production Assistant, Video Editor, and Non-Linear Editor.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Credits earned in these programs will transfer directly into the Associate in Science (A.S.) degree in Broadcast and Documentary Production or Motion Picture Production.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online:  http://online.onetcenter.org/

Motion Picture Production Technology-Digital Animation Concentration AS

Motion Picture Production Technology - Digital Animation Concentration  (AS 2282D)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/CreativeArts.

Program Description
This degree program provides professional training in film, digital animation, and recording arts production for students interested in a career in the film and entertainment industry. The degree program prepares the student to work in a technical capacity in most key crew areas. In this program, students work alongside professionals using cutting edge equipment and technologies, while learning how to put together a film, animation or recording project from the ground up.

The program offers internship experiences in cooperation with the local/regional entertainment industry and through student production projects. Because the courses are offered on a block schedule, it is recommended that the student enrolls in three or more major courses each term. Course content includes motion picture production, cinematography, lighting, sound, editing, design, animation and business concepts in the motion picture industries. Students work cooperatively with those enrolled in concurrent courses to complete extensive production projects outside of regular class meetings. These projects follow the professional Hollywood model for production.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Students must:
- Have a standard high school diploma or GED
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Courses

<table>
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<tr>
<th>Course</th>
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<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>FIL2000</td>
<td>Film Appreciation</td>
<td>3</td>
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<td></td>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
</tr>
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<td></td>
<td>Any course from Social Science - Area V</td>
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</table>

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL2480C</td>
<td>Directing for Film</td>
<td>3</td>
</tr>
<tr>
<td>FIL2100</td>
<td>Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>FIL1461C</td>
<td>Cinematography</td>
<td>3</td>
</tr>
<tr>
<td>FIL2571C</td>
<td>Introduction to Editing</td>
<td>3</td>
</tr>
<tr>
<td>FIL2537C</td>
<td>Introduction to Sound</td>
<td>3</td>
</tr>
<tr>
<td>FIL1456C</td>
<td>Production Design</td>
<td>3</td>
</tr>
<tr>
<td>FIL2420C</td>
<td>Motion Picture Production 1</td>
<td>3</td>
</tr>
<tr>
<td>FIL2031</td>
<td>Film History to the 1940s</td>
<td>3</td>
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### Concentration Area Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ART1201C</td>
<td>Design Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ART1300C</td>
<td>Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>DIG2300C</td>
<td>Principles of 2D Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIG2302C</td>
<td>Principles of 3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIG2370C</td>
<td>Advanced 3D Animation - Character Design and Rigging</td>
<td>3</td>
</tr>
<tr>
<td>DIG2322C</td>
<td>Modeling for Real Time Systems</td>
<td>3</td>
</tr>
<tr>
<td>DIG2430C</td>
<td>Digital Story Development for Film Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIG2341C</td>
<td>Introduction to Compositing and Visual Effects</td>
<td>3</td>
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</tbody>
</table>

Total Program Credit: 64

### Employment Opportunities

Organizations employing graduates include video and film production companies, government and educational agencies, motion pictures, commercial advertising studios and broadcast television stations. Some entry-level positions include audio/sound technician, utility production assistant, set builder, video editor, non-linear editor, camera assistant, camera operator, production crew member and production assistant.

### Career Path Notes

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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Motion Picture Production Technology - Production Concentration AS

**Motion Picture Production Technology - Production Concentration (AS 2282M)**

**Type of Award**

AS - Associate in Science

**Program Website**

[www.palmbeachstate.edu/programs/CreativeArts](http://www.palmbeachstate.edu/programs/CreativeArts)

**Program Description**

- FIL2032 Film History Since the 1940s
- FIL2044 History of Animation 3
- FIL2941 Motion Picture Production Internship 1

- FIL2032 Film History Since the 1940s
- FIL2044 History of Animation 3
- FIL2941 Motion Picture Production Internship 1

**Credit: 24**
This degree program provides professional training in film, digital animation, and recording arts production for students interested in a career in the film and entertainment industry. The degree program prepares the student to work in a technical capacity in most key crew areas. In this program, students work alongside professionals using cutting edge equipment and technologies, while learning how to put together a film, animation or recording project from the ground up.

The program offers internship experiences in cooperation with the local/regional entertainment industry and through student production projects. Because the courses are offered on a block schedule, it is recommended that the student enrolls in three or more major courses each term. Course content includes motion picture production, cinematography, lighting, sound, editing, design, animation and business concepts in the motion picture industries. Students work cooperatively with those enrolled in concurrent courses to complete extensive production projects outside of regular class meetings. These projects follow the professional Hollywood model for production.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Students must:
Have a standard high school diploma or GED.
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education Courses</th>
<th>Credits: 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1 3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication 3</td>
</tr>
<tr>
<td>FIL2000</td>
<td>Film Appreciation 3</td>
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<tr>
<td>Any course from Mathematics - Area III 3</td>
<td></td>
</tr>
<tr>
<td>Any course from Social Science - Area V 3</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL2480C</td>
<td>Directing for Film 3</td>
</tr>
<tr>
<td>FIL2100</td>
<td>Screenwriting 3</td>
</tr>
<tr>
<td>FIL1461C</td>
<td>Cinematography 3</td>
</tr>
<tr>
<td>FIL2571C</td>
<td>Introduction to Editing 3</td>
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<tr>
<td>FIL2537C</td>
<td>Introduction to Sound 3</td>
</tr>
<tr>
<td>FIL1456C</td>
<td>Production Design 3</td>
</tr>
<tr>
<td>FIL2420C</td>
<td>Motion Picture Production 1 3</td>
</tr>
<tr>
<td>FIL2031</td>
<td>Film History to the 1940s 3</td>
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</tbody>
</table>
-or-
FIL2032 Film History Since the 1940s 3
-or-
FIL2044 History of Animation
FIL2941 Motion Picture Production Internship 1

Concentration Area Required Courses
Credits: 21
FIL1680C Film Producing and Production Management 3
FIL1518C Lighting and Grip 3
FIL2432C Motion Picture Production 2 3
FIL2589C Motion Picture Production 3 3
FIL2002 Introduction to Film Studies 3
FIL2561C Advanced Editing 3
FIL2538C Advanced Sound for Film 3

Electives - Choose 3 credits
Credits: 3
FIL2470C Advanced Cinematography 4
FIL2425CR Feature Film Production Projects 3
FIL2130 Advanced Screenwriting 3
FIL2910 Independent Project in Motion Picture and Television Production 3
DIG2341C Introduction to Compositing and Visual Effects 3

Total Program Credits: 64

Employment Opportunities
Organizations employing graduates include video and film production companies, government and educational agencies, motion pictures, commercial advertising studios and broadcast television stations. Some entry-level positions include audio/sound technician, utility production assistant, set builder, video editor, non-linear editor, camera assistant, camera operator, production crew member and production assistant.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit www.palmbeachstate.edu/programs/Bachelor.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Motion Picture Production Technology-Recording Arts Concentration AS

Motion Picture Production Technology - Recording Arts Concentration (AS 2282R)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/CreativeArts.

Program Description
This degree program provides professional training in film, digital animation, and recording arts production for students interested in a career in the film and entertainment industry. The degree program prepares the student to work in a technical capacity in most key crew areas. In this program, students work alongside professionals using cutting edge equipment and technologies, while learning how to put together a film, animation or recording project from the ground up.

The program offers internship experiences in cooperation with the local/regional entertainment industry and through student production projects. Because the courses are offered on a block schedule, it is recommended that the student enrolls in three or more major courses each term. Course content includes motion picture production, cinematography, lighting, sound, editing, design, animation and business concepts in the motion picture industries. Students work cooperatively with those enrolled in concurrent courses to complete extensive production projects outside of regular class meetings. These projects follow the professional Hollywood model for production.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Students must:
Have a standard high school diploma or GED.
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Courses                   Credit: 15
ENC1101          College Composition 1       3
SPC1017          Fundamentals of Speech Communication 3
FIL2000          Film Appreciation           3

Any course from Mathematics - Area III     3
Any course from Social Science - Area V

Required Courses                   Credit: 25
FIL2480C          Directing for Film       3
FIL2100          Screenwriting             3
FIL1461C  Cinematography  3
FIL2571C  Introduction to Editing  3
FIL2537C  Introduction to Sound  3
FIL1456C  Production Design  3
FIL2420C  Motion Picture Production 1  3
FIL2031  Film History to the 1940s  
FIL2032  Film History Since the 1940s  
FIL2044  History of Animation  3
FIL2941  Motion Picture Production Internship 1  1

Concentration Area Required Courses  Credit: 24
MUS1621C  Acoustics and Psychoacoustics  3
MUT1001  Fundamentals of Music  3
FIL1547C  Mixing and Mastering for Recording Arts 1  3
FIL2548C  Mixing and Mastering for Recording Arts 2  3
RTV1558C  Studio Recording  3
RTV1559C  Live Performance Recording  3
FIL2538C  Advanced Sound for Film  3
FIL2543C  Film Sound Design  3

Total Program Credit: 64

Employment Opportunities
Organizations employing graduates include video and film production companies, government and educational agencies, motion pictures, commercial advertising studios and broadcast television stations. Some entry-level positions include audio/sound technician, utility production assistant, set builder, video editor, nonlinear editor, camera assistant, camera operator, production crew member and production assistant.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit www.palmbeachstate.edu/programs/Bachelor.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Recording Arts CCC
Recording Arts (6289)
Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/CreativeArts.

Program Description
This certificate program provides an introduction to professional training in recording arts production for students interested in a career in the film and entertainment industry. In this program, students work alongside professionals using cutting edge equipment and technologies, while learning how to put together a recording project from the ground up. Because the courses are offered on a block schedule, it is recommended that the student enrolls in three or more major courses each term. Course content includes sound, editing, design, and business concepts in the motion picture and recording industries. Students work cooperatively with those enrolled in concurrent courses to complete extensive production projects outside of regular class meetings. These projects follow the professional model for production.

Program Learning Outcomes
For detailed information, visit  www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Students must:

• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at  www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in as little as two semesters of full-time enrollment or two years part time.

Location
The program is offered at the Lake Worth campus.

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS1621C Acoustics and Psychoacoustics</td>
<td>3</td>
</tr>
<tr>
<td>MUT1001 Fundamentals of Music</td>
<td>3</td>
</tr>
<tr>
<td>FIL1547C Mixing and Mastering for Recording Arts 1</td>
<td>3</td>
</tr>
<tr>
<td>FIL2548C Mixing and Mastering for Recording Arts 2</td>
<td>3</td>
</tr>
<tr>
<td>RTV1558C Studio Recording</td>
<td>3</td>
</tr>
<tr>
<td>RTV1559C Live Performance Recording</td>
<td>3</td>
</tr>
<tr>
<td>FIL2538C Advanced Sound for Film</td>
<td>3</td>
</tr>
<tr>
<td>FIL2543C Film Sound Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 24
Employment Opportunities

Organizations employing graduates include video, film and recording production companies, government and educational agencies, motion pictures, commercial advertising studios and broadcast television stations. Some entry-level positions include audio/sound technician, utility production assistant, boom operator and production assistant.

Career Path Notes

Courses from this program may transfer into Palm Beach State’s Associate in Science – Motion Picture Production Technology.
HEALTH SCIENCE

Computed Tomography ATC

Computed Tomography (4321)

Type of Award
ATC - Advanced Technical Certificate

Program Website
www.palmbeachstate.edu/programs/MRI

Program Description
This advanced technical certificate program is a three-course, one-semester program that begins spring term of each year (January – May).
This program is designed to meet the needs of the radiologic technology professional for formalized, specialized training. Available classes include Cross Sectional Anatomy, Computed Tomography, Computed Tomography Clinical Education, Pharmacology for Medical Imaging and Advanced Pathophysiology for Medical Imaging.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Student must complete all courses listed in the catalog for this program with a grade of C or higher.

Program Length
Nine credit hours, or approximately one semester.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Vicki Shaver, shaverv@PalmBeachState.edu, (561) 207-5067

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>RTE2571</td>
<td>Computed Tomography 1</td>
<td>3</td>
</tr>
<tr>
<td>RTE2571L</td>
<td>Computed Tomography Clinical Education</td>
<td>3</td>
</tr>
<tr>
<td>RTE2762</td>
<td>Cross Sectional Anatomy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 9

For individualized course sequence [CLICK HERE]

Employment Opportunities
This ATC curriculum is offered to Radiologic Technologists (RTs) credentialed by the American Registry of Radiologic Technologists (ARRT). This coursework is offered for the RT who desires to become proficient in the advanced modality of Computed Tomography (CT) and in preparation for the advanced modality registration examination offered by the ARRT in CT.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
College credit will be awarded; technologists with an A.S. degree will also be eligible to receive a certificate upon successful completion of the nine credit hour ATC program. ARRT technologists without an A.S. degree may earn their degree through the completion of required coursework at the college. Continuing education credit (CEUs) will also be granted for courses completed with a grade of “C” or better.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

**Dental Assisting PSAV**

**Dental Assisting (5155) LIMITED ACCESS**

**Type of Award**
PSAV - Post Secondary Adult Vocational Certificate

**Program Website**
www.palmbeachstate.edu/programs/DentalHealth/Dental-Assisting.

**Program Description**
This 1230 hour program begins in the fall term of each year and is structured as a daytime program only. After successfully completing the program, the graduate will receive a certificate of completion which includes Dental Radiography and Expanded Functions Certifications (as outlined in Chapter 466 Florida Statute; Rule 64B5 Florida Administrative Code). Graduates are eligible to take the Dental Assisting National Board (DANB) to become certified dental assistants.

**NOTE:** The program maintains compliance with institutional policy and applicable regulations of local, state and federal agencies including, but not limited to, radiation hygiene and protection, ionizing radiation, hazardous materials, and bloodborne and infectious diseases. Policies are continually monitored for compliance by the program in accordance with Palm Beach State College’s Safety and Risk Management Office. All policies are available for review at: www.palmbeachstate.edu/Safety.

**Program Accreditation**
This program is accredited by the American Dental Association Commission, on Dental Accreditation (ADA CODA) 211 East Chicago Av. Chicago, IL 60611-2678 (312) 440-2500 and approved by the Florida State Board of Dentistry.

**Program Learning Outcomes**
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**General Admission Requirements to the College**
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary
inclusion attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Dental Assisting
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx.
- Although not required, students are encouraged to attend a Dental Assisting Program Information Session.
- Submit a completed Dental Assisting program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Students must complete all courses listed in the catalog for this program with a grade of C or higher.

If not exempt, students MUST pass the TABE, Survey, Level A and score 10th grade competency level in all parts of the examination in order to be eligible to complete the program. Your scores are valid for two years. The Student Learning Center (SLC) at each Palm Beach State location provides TABE remediation courses for students who need additional skills to pass the TABE test. For more information, please call (561) 868-3795.

Program Length
This eleven-month full-time day begins once a year in the Fall Term.

Location
The program is offered at the Lake Worth campus.

For More Information
Dental Health Services Coordinator, (561) 868-3752

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEA0137 Oral, Head, and Neck Anatomy</td>
<td>48</td>
</tr>
<tr>
<td>DEA0755 Dental Radiology</td>
<td>32</td>
</tr>
<tr>
<td>DEA0755L Dental Radiology Lab</td>
<td>32</td>
</tr>
<tr>
<td>DEA0746 Dental Office Emergencies</td>
<td>16</td>
</tr>
<tr>
<td>DEA0758 Introduction to Clinical Procedures</td>
<td>48</td>
</tr>
<tr>
<td>DEA0758L Introduction to Clinical Procedures Lab</td>
<td>32</td>
</tr>
<tr>
<td>DEA0744 Dental Materials*</td>
<td>32</td>
</tr>
<tr>
<td>DEA0744L Dental Materials Lab*</td>
<td>32</td>
</tr>
<tr>
<td>DEA0757 Expanded Functions*</td>
<td>16</td>
</tr>
<tr>
<td>DEA0757L Expanded Functions Lab*</td>
<td>32</td>
</tr>
<tr>
<td>DEA0743 Preventive Dentistry*</td>
<td>32</td>
</tr>
<tr>
<td>DEA0747 Office Management*</td>
<td>16</td>
</tr>
<tr>
<td>DEA0130 Related Dental Theory</td>
<td>32</td>
</tr>
</tbody>
</table>
DEA0800  Clinical Practice 1  32
DEA0800L  Clinical Practice 1 Lab  128
DEA0940L  Dental Practicum 1 Lab  24
DEA0153  Dental Psychology and Communication  32
DEA0801  Clinical Practice 2  32
DEA0801L  Clinical Practice 2 Lab  192
DEA0941L  Dental Practicum 2 Lab  64
DEA0850  Dental Assisting Clinical Practice 3  16
DEA0850L  Clinical Practice 3 Lab  310

Total Program Clock Hours: 1,230

* These courses articulate with the Palm Beach State Dental Hygiene A.S. Program through a prior learning process.

Employment Opportunities
Students successfully completing this accredited program qualify for employment as a dental assistant in a variety of settings, to include, but not limited to general/specialty dental practices, public health, hospitals and community health care related facilities, dental product representatives, and educational and research related fields.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
A student who completes the Dental Assisting Program will be eligible to transfer up to 19 college credits toward the Associate of Science in Dental Hygiene Degree.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Dental Hygiene AS
Dental Hygiene (2151) LIMITED ACCESS

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/DentalHealth/Dental-Hygiene

Program Description
The program leads to an A.S. degree and is approximately 21 months in length, not including the time necessary to complete the General Education and Natural Science program required courses. The Dental Hygiene Program begins with the fall term of each year, and is structured as a daytime program only.
NOTE: The program maintains compliance with institutional policy and applicable regulations of local, state and federal agencies including, but not limited to, radiation hygiene and protection, ionizing radiation, hazardous materials, and bloodborne and infectious diseases. Policies are continually monitored for compliance by the program in accordance with Palm Beach State College’s Safety and Risk Management Office. All policies are available for review at: www.palmbeachstate.edu/Safety.

Program Accreditation
This program is accredited by the American Dental Association Commission on Dental Accreditation (ADA CODA) 211 East Chicago Ave. Chicago, IL 60611-2678 (312)440-2500.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
- Submit placement test scores if not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx.
- Complete all other requirements for admission outlined in the Admission Procedures section of the college catalog.

Admission Requirements for Dental Hygiene
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).
- Have a cumulative GPA of 2.0 or higher;
- Complete all Natural Science program required courses (listed below) with a grade of C or higher;
- Submit a completed Dental Hygiene program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Students must complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
The program is approximately 21 months in length, not including the time necessary to complete the General Education and the Natural Science program required courses. It begins with the fall term of each year and is structured as a daytime program only.

Location
The program is offered at the Lake Worth campus.

For More Information
Dental Health Services Coordinator, (561) 868-3752

To see when the course is offered, click the course number. To see a course description, click the course title.
### General Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>SYG2000</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
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</table>

### Natural Science Program Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
<td>3</td>
</tr>
<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
<td>1</td>
</tr>
<tr>
<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td>BSC2086L</td>
<td>Anatomy and Physiology 2 Lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Any level transferable Chemistry course</td>
<td>3</td>
</tr>
<tr>
<td>HUN1201</td>
<td>Elements of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>MCB2010</td>
<td>Microbiology</td>
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<td>Microbiology Lab</td>
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### Required Courses

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>DEH1003</td>
<td>Dental Hygiene Instrumentation</td>
<td>1</td>
</tr>
<tr>
<td>DEH1003L</td>
<td>Dental Hygiene Instrumentation Lab</td>
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</tr>
<tr>
<td>DEH1130</td>
<td>Oral Embryology and Histology</td>
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</tr>
<tr>
<td>DEH1800</td>
<td>Dental Hygiene 1</td>
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<td>DEH1800L</td>
<td>Dental Hygiene 1 Lab</td>
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<tr>
<td>DEH1802</td>
<td>Dental Hygiene 2</td>
<td>1</td>
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<tr>
<td>DEH1802L</td>
<td>Dental Hygiene 2 Lab</td>
<td>1</td>
</tr>
<tr>
<td>DEH1811</td>
<td>Dental Ethics and Jurisprudence</td>
<td>1</td>
</tr>
<tr>
<td>DEH2300</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>DEH2400</td>
<td>General and Oral Pathology</td>
<td>2</td>
</tr>
<tr>
<td>DEH2602</td>
<td>Periodontology</td>
<td>2</td>
</tr>
<tr>
<td>DEH2701</td>
<td>Community Dentistry</td>
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<tr>
<td>DEH2702L</td>
<td>Community Dentistry Practicum</td>
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<tr>
<td>DEH2804</td>
<td>Dental Hygiene 3</td>
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<td>DEH2804L</td>
<td>Dental Hygiene 3 Lab</td>
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<td>DEH2806</td>
<td>Dental Hygiene 4</td>
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<tr>
<td>DEH2806L</td>
<td>Dental Hygiene IV Lab</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>-------------</td>
<td>--------------------------------------</td>
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<tr>
<td>DEH2934</td>
<td>Compromised Patient</td>
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</tr>
<tr>
<td>DES1020</td>
<td>Dental Anatomy *</td>
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</tr>
<tr>
<td>DES1100</td>
<td>Dental Materials</td>
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<tr>
<td>DES1100L</td>
<td>Dental Materials Lab *</td>
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<tr>
<td>DES1200</td>
<td>Dental Radiology *</td>
<td>2</td>
</tr>
<tr>
<td>DES1200L</td>
<td>Dental Radiology Lab *</td>
<td>1</td>
</tr>
<tr>
<td>DES1600</td>
<td>Office Emergencies *</td>
<td>1</td>
</tr>
<tr>
<td>DES1800</td>
<td>Introduction to Clinical Procedures</td>
<td>3</td>
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<tr>
<td>DES1800L</td>
<td>Introduction to Clinical Procedures</td>
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</tr>
<tr>
<td>DES1832</td>
<td>Expanded Functions Lecture *</td>
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</tr>
<tr>
<td>DES1832L</td>
<td>Expanded Functions Lab *</td>
<td>1</td>
</tr>
<tr>
<td>DES1840</td>
<td>Preventive Dentistry *</td>
<td>2</td>
</tr>
<tr>
<td>DES2502</td>
<td>Office Management *</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Program Credits: 88

* These courses will articulate from the Palm Beach State Dental Assisting Program.

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Graduates of the program and after successfully passing national and state licensing examinations may seek employment as a licensed registered dental hygienist in a variety of settings, to include but not limited to general/specialty dental practices, public health, hospitals and community health related facilities, public and private health access settings, school based programs, dental product representatives, and educational and research related fields.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor). In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Health Informatics Specialist CCC**

**Health Informatics Specialist (6531)**

**Addendum October 30, 2015 (Controlled Access Admission removed)**

**Type of Award**

CCC - College Credit Certificate
Program Website
www.palmbeachstate.edu/programs/HealthScience

Program Description
This program is designed to prepare students for employment as entry-level health care informatics specialists or to provide supplemental training for persons previously or currently employed in related health record occupations. The content includes but is not limited to biomedical sciences, including medical terminology, health care delivery systems, basic principles of health care informatics; electronic health/medical record systems; data and workflow management concepts; and project management skills specific to health care informatics, ethical and legal concepts, health data content, clinical classification systems, organization and supervision, quality and performance improvement, health care statistics and research, reimbursement methodologies, professional practice experiences, and employability skills.

General Admission Requirements to the College

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Health Informatics Specialist
In addition to the above General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Complete ELO1000 eLearning Orientation;
- Complete program foundation courses with a grade of C or higher;
- Submit a completed Health Informatics Specialist Verification Request Form, located on the program website.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
Total program credits: 18

Location
This program is offered at the Lake Worth campus.

For More Information
After completing the online information session listed above, contact:
The Health Information Programs Advising Office
healthinfo@palmbeachstate.edu
561-868-4035

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 18</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications 3</td>
</tr>
<tr>
<td>HSC2531</td>
<td>Medical Terminology 3</td>
</tr>
<tr>
<td>HIM1000C</td>
<td>Introduction to Health Information Management 3</td>
</tr>
</tbody>
</table>
HIM1210C  Health Information System  3
HIM2510C  Healthcare Data Analysis  3
HIM2651C  Applied Health Informatics  3

Total Program Credits: 18

Students will be required to enroll in and pass the following prerequisite courses to complete this certificate: HIM2652C or CGS1100 for HIM1000C, and STA2023 for HIM2510C.

For individualized course sequence  CLICK HERE  

Employment Opportunities
There is a growing demand for computer professionals in every field and especially in health care. Career opportunities exist in a variety of organizations including hospitals, health care organizations, third-party insurers, public health agencies, research institutions, medical groups and clinics and industries engaged in health care IT. Graduates are employed as consultants, managers, systems designers, database administrators, systems analysts and researchers.

Career Path Notes
Credits earned in this program will transfer directly into the Associate in Science (A.S.) degree in Health Information Technology.

Career Center
www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online:  http://online.onetcenter.org/

Health Information Technology AS

Health Information Technology (AS 2529)

Addendum October 30, 2015 (Controlled Access Admission removed)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/HealthInfoMgmt

Program Description
This degree program is designed to provide students with the technical expertise in management of health information contained both in paper and electronic formats. The student will obtain knowledge and skills to perform job functions in medical records, medical coding, medical billing and other information-based areas in both the hospital and outpatient settings. Graduates of the program will be able to provide reliable and valid information that drives the health care industry.

This program provides students with the technical expertise in health data collection, analysis, monitoring, maintenance, and reporting activities in compliance with established legal, ethical, regulatory and professional standards. Course content will include both paper and electronic information management concepts and technologies, in addition to ethical and medico-legal aspects, computer information technology, biomedical sciences, health record science, statistics and data literacy, medical coding, clinical classification systems, reimbursement methodologies, quality assessment, health care delivery systems, indexing, performance improvement and professional practice experience.

Program Accreditation
The Health Information Technology AS degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This accreditation confirms that the program has voluntarily undergone a rigorous review process and has been determined to meet or exceed the Standards set by the Board of Directors. Graduates are eligible to apply and take the national certification exam for Registered Health Information Administrator (RHIA) or Registered Health Information Technician (RHIT).

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
- Submit placement test scores if not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx.
- Complete all other requirements for admission outlined in the Admission Procedures section of the college catalog.

Admission Requirements for Health Information Technology
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Complete ELO1000 eLearning Orientation;
- Attend an online Health Information Technology information session;
- Complete program foundation courses with a grade of C or higher;
- Submit a completed Health Information Technology Verification Request Form, located on the program website.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
After completing the online information session listed above contact:

The Health Information Programs Advising Office
healthinfo@palmbeachstate.edu
561-868-4035

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
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<tbody>
<tr>
<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
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<tr>
<td>BSC2086L</td>
<td>Anatomy and Physiology 2 Lab</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>PSY2012</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
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<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
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<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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<tr>
<td>STA2023</td>
<td>Statistics</td>
</tr>
<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
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<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
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**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAN2021</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>HSC2531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIM1000C</td>
<td>Introduction to Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>HIM1433C</td>
<td>Pathophysiology for Health Information Management</td>
<td>2</td>
</tr>
<tr>
<td>HIM1442C</td>
<td>Pharmacology for Health Information Management</td>
<td>2</td>
</tr>
<tr>
<td>HIM1282C</td>
<td>Fundamentals of Medical Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM1210C</td>
<td>Health Information System</td>
<td>3</td>
</tr>
<tr>
<td>HIM2222C</td>
<td>Applied Inpatient Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM2272C</td>
<td>Medical Reimbursement and Revenue</td>
<td>3</td>
</tr>
<tr>
<td>HIM2510C</td>
<td>Healthcare Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>HIM1012C</td>
<td>Health Information Law, Ethics, and Compliance</td>
<td>3</td>
</tr>
<tr>
<td>HIM2253C</td>
<td>Applied Outpatient Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM2651C</td>
<td>Applied Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HIM2304C</td>
<td>Health Information Department Management</td>
<td>3</td>
</tr>
<tr>
<td>HIM1800C</td>
<td>Health Information Professional Practice</td>
<td>2</td>
</tr>
<tr>
<td>HIM2810L</td>
<td>Advanced Coding Practicum</td>
<td>1</td>
</tr>
<tr>
<td>HIM2826L</td>
<td>Health Information Skills Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Program Credits:** 70

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**Employment Opportunities**

The roles commonly filled by a registered health information technician (RHIT) include: cancer (or other disease) registrar, clinical coder/compliance auditor/vocabulary specialist, clinical data collection and reporting specialist, data
integrity specialist, document imaging coordinator, information access/disclosure specialist, quality improvement specialist, reimbursement specialist/financial services liaison, and instructor/trainer.

**Career Path Notes**

Please visit www.hicareers.com. Upon completion students are eligible to sit for the Registered Health Information Technician (RHIT) exam provided by the American Health Information Management Association. Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. See www.palmbeachstate.edu/programs/Bachelor for more information. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer. This program is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM) www.cahiim.org.

**Career Center**

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/

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**Magnetic Resonance Imaging ATC**

**Magnetic Resonance Imaging** (4322)

**Type of Award**

ATC - Advanced Technical Certificate

**Program Website**

www.palmbeachstate.edu/programs/MRI

**Program Description**

This advanced technical certificate program is a five-course, two-semester program which begins in the fall of each year and ends at the completion of the spring term (August to May). An Advanced Technical Certificate (ATC) in Magnetic Resonance Imaging is awarded to the student who holds a two-year degree from an accredited college or university and completes a minimum of 12 credit hours from the courses listed below. The program is designed to meet the needs of the radiologic technology professional for formalized, specialized training.

**Program Learning Outcomes**

For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**Admission Requirements**

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**

Student must complete all courses listed in the catalog for this program with a grade of C or higher.

**Program Length**

12 credit or approximately 10 months.

**Location**

The program is offered at the Palm Beach Gardens campus.
For More Information
Vicki Shaver, shaverv@PalmBeachState.edu, (561) 207-5067

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RTE2575</td>
<td>Introduction to Magnetic Resonance Imaging</td>
<td>3</td>
</tr>
<tr>
<td>RTE2576</td>
<td>Magnetic Resonance Imaging 2</td>
<td>3</td>
</tr>
<tr>
<td>RTE2762</td>
<td>Cross Sectional Anatomy</td>
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Electives - Choose one

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>RTE2130</td>
<td>Pharmacology for Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>RTE2577L</td>
<td>Magnetic Resonance Imaging Clinical Education 1</td>
<td>3</td>
</tr>
<tr>
<td>RTE2576L</td>
<td>Magnetic Resonance Imaging Clinical Education 2</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence CLICK HERE

Employment Opportunities

This program is offered to Radiologic Technologists (RTs) licensed by the American Registry of Radiologic Technologists (ARRT). This coursework is offered for the RT who desires to become proficient in the advanced modality of Magnetic Resonance Imaging (MRI) and in preparation for the Advanced Registry offered by the ARRT in MRI.

Gainful Employment

Program Length excludes this program from gainful employment reporting requirements.

Career Path Notes

College credit will be awarded; technologists with an A.S. degree will also be eligible to receive a certificate upon successful completion of the 12-credit-hour ATC program. ARRT technologists without an A.S. degree may earn their degree through the completion of required coursework at the college. Continuing education credit (CEUs) will also be granted for courses completed with a grade of “C” or better.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:

O-Net Online: http://online.onetcenter.org/

Massage Therapy PSAV

Massage Therapy (5232) LIMITED ACCESS

Type of Award

PSAV - Post Secondary Adult Vocational Certificate

Program Website

www.palmbeachstate.edu/programs/MassageTherapy

Program Description
This PSAV limited access program prepares the student for employment as a licensed massage therapist. Massage therapy is the manipulation of the soft tissues of the human body by a person who is licensed for compensation. Courses will include lecture and laboratory/clinical experience. Course content includes anatomy and physiology, hydrotherapy, myology, pathology, health care concepts, medical errors, HIV/AIDS education, history, state law, ethics, a variety of allied modalities and traditional oriental medicine.

Program Accreditation
This program is approved by the Florida Board of Massage Therapy.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Massage Therapy
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).
- Be 18 years of age or older
- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx.
- Attend a Massage Therapy information session.
- Submit a completed Massage Therapy program application, located on the program website, and pay the application fee by the deadline.
- Once given a provisional program acceptance, students are required to have a criminal background check (15 years), 10 panel drug screening and health screening.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 10; English: 10; Mathematics: 9 or qualify for TABE exemption.

Program Length
Total program clock hours: 750

Location
The program is offered at the Boca Raton campus.

For More Information
Sheryl (Shayna) Platt, Platts@PalmBeachState.edu, (561) 862-4720 or Receptionist (561) 862-4722

To see when the course is offered, click the course number. To see a course description, click the course title.
Medical Assisting PSAV

Medical Assisting  (5236) LIMITED ACCESS

Type of Award
- PSAV - Post Secondary Adult Vocational Certificate

Program Website
- www.palmbeachstate.edu/programs/MedicalAssistant

Program Description
Medical assistants are multi-skilled health professionals specifically educated to work in ambulatory settings performing administrative and clinical duties. The practice of medical assisting directly influences the public's health and well-being, and requires mastery of a complex body of knowledge and specialized skills requiring both formal education and practical experience that serve as standards for entry into the profession. This PSAV program prepares students for employment as vital members of a physician's health care team. This program is taught in an office-like setting, allowing students to learn the necessary skills to work in both the administrative and clinical settings of a physician's office, outpatient clinics, ambulatory surgery centers, medical and diagnostic laboratories, kidney dialysis centers and offices of other health care practitioners. Coursework for the Medical Assisting program covers anatomy, physiology, medical terminology, pathophysiology, basic accounting, insurance processing and electronic health records. Students learn laboratory techniques, clinical and diagnostic procedures, pharmaceutical principles, medication administration and first aid. Coursework also includes practice with such skills as insurance coding and
billing, posting charges, basic bookkeeping, front office reception, patient assessment, assisting with examinations, giving injections, phlebotomy, taking vital signs, doing electrocardiography and much more.

Program Accreditation
The Palm Beach State College Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (http://www.caahep.org/) upon the recommendation of Medical Assisting Education Review Board (MAERB). Commission on Accreditation of Allied Health Education Programs 1361 Park Street Clearwater, Fl 33756, telephone 727-210-2350.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Medical Assisting
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx.
- Attend a Medical Assisting information session.
- Submit a completed Medical Assisting program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum TABE scores prior to completion of the third sequence of the program: Reading: 10; English: 10; Mathematics: 10 or qualify for TABE exemption.

Program Length
1,300 hours, or approximately 13 months. Medical Assisting is a daytime program only.

Location
The program is offered at the Lake Worth campus.

For More Information
Barbara Kalfin, kalfinb@PalmBeachState.edu, (561) 868-3562
or
Latisha Myrick, myrickl@PalmBeachState.edu, (561) 868-3819

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
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<td>HSC0003</td>
<td>Health Care Concepts</td>
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<td>Course Title</td>
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<tr>
<td>PRN0022</td>
<td>Body Structure and Function</td>
<td>69</td>
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<td>MEA0230</td>
<td>Medical Terminology for Body Systems</td>
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<td>OTA0100</td>
<td>Introduction to Keyboarding/Word Processing</td>
<td>60</td>
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<td>MEA0310</td>
<td>Introduction to Medical Office Procedures</td>
<td>90</td>
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<td>MEA0520</td>
<td>Phlebotomy for the Medical Assistant</td>
<td>75</td>
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<td>MEA0242</td>
<td>Pharmacology for the Medical Assistant</td>
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<td>MEA0540</td>
<td>Electrocardiography for the Medical Assistant</td>
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<tr>
<td>MEA0234</td>
<td>Diseases, Disorders, and Treatment for Medical Assisting 1</td>
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<td>MEA0258</td>
<td>Radiology for the Medical Assistant</td>
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<tr>
<td>MEA0334</td>
<td>Medical Insurance and Coding</td>
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<td>MEA0237</td>
<td>Diseases, Disorders, and Treatment for Medical Assisting 2</td>
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<td>MEA0254</td>
<td>Basic Medical Laboratory Techniques for the Medical Assistant</td>
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<td>MEA0322</td>
<td>Advanced Medical Office Procedures</td>
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<tr>
<td>MEA0801</td>
<td>Externship in Medical Assisting</td>
<td>173</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 1,300

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Upon completion of this program, you may seek employment as a medical assistant in a physician's office, hospital, outpatient clinic, chiropractics, pediatrics, emergency 24 hr care, private and public educational agencies, alternative ambulatory health care services, state and local government agencies, referral and diagnostics labs, and other specializations.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Upon program completion, students must sit for the American Association of Medical Assisting (AAMA) national certification exam to become a Certified Medical Assistant, CMA (AAMA). Employers are making hiring decisions based on proof that a candidate for a medical assistant position is certified.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Medical Information Coder/Biller CCC

Medical Information Coder/Biller  (6528)

Addendum October 30, 2015 (Controlled Access Admission removed)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/MedicalCode

Program Description
This program prepares students for employment as medical coders and health insurance specialists. The medical coder is responsible for assigning correct diagnostic and procedural codes to medical documentation from patients' medical records to ensure appropriate medical insurance reimbursement and compliance. The Medical Information Coder/Biller program content is comprehensive, covering both inpatient and outpatient coding and documentation principles. This requires knowledge and abilities in anatomy and physiology, pathophysiology, pharmacology, computer software, reimbursement, health insurance, ethics, legal and regulatory requirements, and health information management.

Program Accreditation
The Medical Information Coder/Biller program is accredited by the American Health Information Management Association (AHIMA). This designation acknowledges the coding program as having been evaluated by a peer review process against a national minimum set of standards for entry-level coding professions. This process allows academic institutions, health care organizations, and private companies to be acknowledged as offering an AHIMA Approved Coding Certificate program.

General Admission Requirements to the College

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Medical Information Coder/Biller
In addition to the General Admission requirements, student must meet the following criteria to be eligible to begin core HIM courses in the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Completion of ELO1000 eLearning Orientation;
- Attend an on-line Medical Information Coder/Biller information session;
- Complete program foundation courses with a grade of C or higher.
- Submit a completed Medical Information Coder/Biller Verification Request Form, located on the program website.

Completion Requirements
Students must complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
Total program credits: 34. Total program length: 5 semesters part-time. Most of the Medical Information Coder/Biller courses are formatted as hybrid online courses.

Location
The program is offered at the Lake Worth campus.

For More Information
After completing the online information session listed above contact:

The Health Information Programs Advising Office
healthinfo@palmbeachstate.edu
561-868-4035

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
<td>3</td>
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<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
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</tr>
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<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td>BSC2086L</td>
<td>Anatomy and Physiology 2 Lab</td>
<td>1</td>
</tr>
<tr>
<td>HSC2531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIM1000C</td>
<td>Introduction to Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>HIM1433C</td>
<td>Pathophysiology for Health Information</td>
<td>2</td>
</tr>
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<td>HIM1442C</td>
<td>Pharmacology for Health Information</td>
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<tr>
<td>HIM1282C</td>
<td>Fundamentals of Medical Coding</td>
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<tr>
<td>HIM2222C</td>
<td>Applied Inpatient Coding</td>
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<td>HIM2272C</td>
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<td>Applied Outpatient Coding</td>
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<td>HIM2810L</td>
<td>Advanced Coding Practicum</td>
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<tr>
<td>HIM1012C</td>
<td>Health Information Law, Ethics, and Compliance</td>
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</table>

Total Program Credits: 34

For individualized course sequence [CLICK HERE](#)

Employment Opportunities
Upon completion of this program, the student may seek employment as a medical coder or health insurance specialist in a hospital, physician’s office, intermediate care facility, insurance company, billing company or clinic. A medical information coder/biller uses the clinical documentation, diagnosis and procedures and translates them into numeric codes. These numeric codes are input into the computer system and used for reimbursement, quality assurance and research.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

Career Path Notes
Completion of the program will provide students with 34 credits, which may be applied to the Health Information Management Associate in Science degree.
Upon completion of the program students may sit for the American Health Information Management Association (AHIMA) CCA certification examination and/or the American Academy of Professional Coders (AAPC) CPC-A certification examination.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Medical Transcription ATD
Medical Transcription (B530 - Credit)

Type of Award
ATD - Applied Technology Diploma

Program Website
www.palmbeachstate.edu/programs/MedicalTranscription

Program Description
This applied technology diploma program prepares the student for employment as a medical language specialist/medical transcriptionist (MLS/MT). MLS/MTs are specialists in medical language and health care documentation. They interpret and transcribe dictation by physicians and other health care professionals regarding patient assessment, workup, therapeutic procedures, clinical course, diagnoses, prognoses, etc. The MLS/MT also edits detailed medical reports generated by Speech-Recognition Technology (SRT) software, editing medical content, English, grammar and punctuation as necessary.
Course content is comprehensive to serve the student with no previous medical background or experience. It includes medical terminology, anatomy and physiology, health information management as well as computer proficiency, employing a state-of-the-art training program and techniques utilizing authentic physician-generated dictation as well as SRT-generated text.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
• Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
• Submit placement test scores if you are not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx
  Note: a minimum typing speed of 45 words per minute, after errors, is required. When you are ready to begin the core courses, see program website for typing test instructions.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
Total program credits: 33

Location
This program is offered at the Lake Worth campus. All core courses are currently offered 100% online as well as select prerequisite and/or co-requisite courses depending on specific semester offerings.

After completing an online information session contact:

The Health Information Programs Advising Office
healthinfo@palmbeachstate.edu
561-868-4035

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC2085 Anatomy and Physiology 1 *</td>
<td>3</td>
</tr>
<tr>
<td>BSC2085L Anatomy and Physiology 1 Lab *</td>
<td>1</td>
</tr>
<tr>
<td>BSC2086 Anatomy and Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td>BSC2086L Anatomy and Physiology 2 Lab</td>
<td>1</td>
</tr>
<tr>
<td>HSC2531 Medical Terminology</td>
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<tr>
<td>HIM1000C Introduction to Health Information Management</td>
<td>3</td>
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<tr>
<td>HIM1433C Pathophysiology for Health Information Management</td>
<td>2</td>
</tr>
<tr>
<td>HIM1442C Pharmacology for Health Information Management</td>
<td>2</td>
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<tr>
<td>HIM2652C Medical Transcription Advanced Keyboarding and Technology</td>
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<tr>
<td>HIM2045C Foundation Skills for Medical Transcription</td>
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<tr>
<td>HIM2020C Medical Transcription by Body System</td>
<td>3</td>
</tr>
<tr>
<td>HIM2032C Intermediate Medical Transcription</td>
<td>3</td>
</tr>
<tr>
<td>HIM2034C Advanced Medical Transcription</td>
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</tr>
<tr>
<td>HIM2802 Externship for Medical Transcription</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Program Credits: 33

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

MLS/MTs work in hospitals, clinics, physician offices, transcription services, insurance companies, home health care agencies and other locations where dictation for the purpose of health care documentation requires transcription. Most MLS/MTs work from their homes as independent contractors, subcontractors, or home-based employees who enjoy the full benefits of their employer, including medical benefits, paid time off, 401K, etc.

Medical transcription/editing is the only completely mobile health care occupation available today!

**Career Path Notes**

Students who complete this program are eligible to sit for the Association for Healthcare Documentation Integrity (AHDI) Registered Medical Transcriptionist (RMT) certification examination, developed to assure employers that successful candidates are qualified to practice as an MLS/MT.

**Career Center**
Nursing AS

Nursing (2301) LIMITED ACCESS

ADDENDUM OCTOBER 30, 2015 (curriculum action dated June 4, 2015)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Nursing

Program Description
This degree program focuses on: wellness of self and others; technical nursing skills across the life span in acute care facilities, long-term care facilities and the community environment; critical care concepts; and professional development. Upon graduation, the student is awarded an associate in science degree (A.S.) and is eligible to take the National Council Licensing Exam (NCLEX) to become a registered nurse (RN).

As such, the graduate will be a collaborative and integral member of the changing health-care system. Prior to applying for entrance any individual with an arrest record is advised to seek counseling regarding possible limitations toward licensure.

Available within this program is admission as either a beginning (generic) or a transition student. Since nursing is a limited access program, entrance requirements are the same; however, the process differs for generic and transition students. Generic students submit information and documents directly to any campus Admissions Office. Transition students submit college application and transcripts to the Admissions Office and all other information directly to the Palm Beach State Nursing Office.

The Nursing program at Palm Beach State is committed to providing the best education for students seeking an Associate of Science Degree (A.S.) in Nursing. The program is designed to provide educational and clinical experiences leading to employment in beginning positions as registered nurses in hospitals or comparable facilities.

Program Accreditation
This program is approved by the Florida Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN), formerly National League for Nursing Accrediting Commission (NLNAC). Program data is annually updated with the Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE, Suite 850, Atlanta, Ga 30326, phone: (404) 975-5000 fax: (404) 975-5020.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
- Submit placement test scores if not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx.
- Complete all other requirements for admission outlined in the Admission Procedures section of the college catalog.

Admission Requirements for Nursing - Generic Students
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Attend a mandatory Nursing information session;
- Have a cumulative GPA of 2.5 or higher;
- Complete all program prerequisite courses (listed below) with a grade of C or higher. BSC2085/BSC2085L and CHM1032 must be completed within 10 years of the application deadline;
- Take and pass the HESI A2 exam (Math Score: 80 or higher; Cumulative Score: 75 or higher);
- Submit a completed Nursing program application, located on the program website, and pay the application fee by the deadline.

Admission Requirements for Nursing - Transition Students (LPN or Paramedic)
Please contact the Nursing Office, 561-868-3412, for detailed information.

Completion Requirements
Students must complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth and Belle Glade campuses. Many prerequisite courses are offered as online courses to meet the demands of student schedules. Some nursing courses are offered in the evenings but most are daytime classes. Currently all theory courses are offered as online courses, once the prerequisites have been completed.

For More Information
All applicants must attend one of the monthly information sessions facilitated by Rhonda Boles, Program Specialist, bolesr@PalmBeachState.edu, (561) 868-3441.

To see when the course is offered, click the course number. To see a course description, click the course title.

Program Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1 **</td>
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</tr>
<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab **</td>
<td>1</td>
</tr>
<tr>
<td>CHM1032</td>
<td>Principles of Chemistry</td>
<td>3</td>
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<tr>
<td>DEP2004</td>
<td>Human Growth and Development</td>
<td>3</td>
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General Education

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<th>Course</th>
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<tr>
<td>ENC1101</td>
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<td>STA2023</td>
<td>Statistics</td>
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<tr>
<td>BSC2086</td>
<td>Anatomy and Physiology 2 **</td>
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<tr>
<td>BSC2086L</td>
<td>Anatomy and Physiology 2 Lab **</td>
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<td>MCB2010</td>
<td>Microbiology</td>
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<td>MCB2010L</td>
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<td>PSY2012</td>
<td>General Psychology</td>
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<td>Any Course from Humanities - Area II</td>
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Required Courses

<table>
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<tr>
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Credits: 42
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<tr>
<td>NUR2000L</td>
<td>Introduction to Professional Nursing</td>
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<td>NUR1023</td>
<td>Introduction to Concepts for Nursing Practice 1</td>
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<td>NUR1023L</td>
<td>Introduction to Concepts for Nursing Practice 1 Clinical</td>
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<td>NUR1022L</td>
<td>Introduction to Concepts for Nursing Practice 1 Skills</td>
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<td>NUR1141</td>
<td>Introduction to Pharmacotherapeutics</td>
<td>2</td>
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<tr>
<td>NUR1213</td>
<td>Concepts for Nursing Practice 2</td>
<td>6</td>
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<tr>
<td>NUR1213L</td>
<td>Concepts for Nursing Practice 2 Clinical</td>
<td>4</td>
</tr>
<tr>
<td>NUR1214L</td>
<td>Concepts for Nursing Practice 2 Skills</td>
<td>1</td>
</tr>
<tr>
<td>NUR2261</td>
<td>Concepts for Nursing Practice 3</td>
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<td>NUR2261L</td>
<td>Concepts for Nursing Practice 3 Clinical</td>
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<td>NUR2712C</td>
<td>Concepts for Nursing Practice 4</td>
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<tr>
<td>NUR2943L</td>
<td>Preceptorship Experience</td>
<td>4</td>
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</table>

Total Program Credits: 72

*Transition students only prior to first clinical nursing course

**If BSC 2085/2085L and BSC 2086/2086L are completed prior to entering the Nursing Program, the BSC 2086 and BSC 2086L must be completed within the last ten (10) years.

Employment Opportunities
As the largest health care occupation, registered nurses hold over 3 million jobs. About three out of five jobs were in hospitals, in inpatient and outpatient departments. Others worked in offices of physicians, long term care facilities, home health care services, employment services, government agencies and outpatient care centers. The remainder worked mostly in social assistance agencies and educational services, public and private. About one in four RNs worked part time.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management or the Bachelor of Science in Nursing. Please visit [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)

O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Ophthalmic Medical Technology AS

**Ophthalmic Medical Technology (AS 2229) LIMITED ACCESS**

**Type of Award**
AS - Associate In Science

**Program Website**
www.palmbeachstate.edu/programs/OMT

**Program Description**
The ophthalmic medical technologist assists the ophthalmologist, eye physician and surgeon, in the evaluation of vision and treatment of patients with disorders of the eyes. The program’s four-semester, competency-based curriculum is a college-level program consisting of full-time (eight hours per day) didactic classroom experience, hands-on optical analysis and specialized training in vision testing. Students develop, through extensive clinical internships, technical proficiency, including hands-on training in our state-of-the-art medical clinic, under the supervision of a Board-Certified and licensed ophthalmologist, combined with practical experience in local ophthalmic practices, clinics, and hospitals.

**Program Learning Outcomes**
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**General Admission Requirements to the College**
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
- Submit placement test scores if not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx.
- Complete all other requirements for admission outlined in the Admission Procedures section of the college catalog.

**Admission Requirements for Ophthalmic Medical Technology**
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

- Attend a mandatory Ophthalmic Medical Technology information session;
- Have a cumulative GPA of 2.6 or higher;
- Document at least four hours of observation in an approved ophthalmic medical practice;
- Complete the following prerequisite program courses with a grade of C or higher by the application deadline: BSC2085/BSC2085L (Anatomy and Physiology 1 and Lab), BSC2086/BSC2086L (Anatomy and Physiology 2 and Lab) and MCB2010/MCB2010L (Microbiology and Lab);
- Submit a completed Ophthalmic Medical Technology program application, located on the program website, and pay the application fee by the deadline.

**Completion Requirements**
Student must complete all courses listed in the catalog for this program with a grade of C or higher.

**Program Length**
This is a four-semester program beginning in August each year. It requires a full-time commitment.

**Location**
The program is offered at the Palm Beach Gardens campus.

**For More Information**
Contact Robert M. Kershner, M.D., F.A.C.S., Kershner@PalmBeachState.edu, (561) 207-5726

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education Courses</th>
<th>Credits: 27</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
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<tr>
<td>MAC1105</td>
<td>College Algebra</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
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<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
</tr>
<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
</tr>
<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
</tr>
<tr>
<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
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<tr>
<td>BSC2086L</td>
<td>Anatomy and Physiology 2 Lab</td>
</tr>
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<td>MCB2010</td>
<td>Microbiology</td>
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<td>Microbiology Lab</td>
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<th>Required Courses</th>
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<tr>
<td>OPT1110</td>
<td>Physical and Geometric Optics</td>
</tr>
<tr>
<td>OPT1150</td>
<td>Ophthalmic Lenses</td>
</tr>
<tr>
<td>OPT1210</td>
<td>Anatomy &amp; Physiology of the Eye</td>
</tr>
<tr>
<td>OPT1330</td>
<td>Introduction to Vision Care 1</td>
</tr>
<tr>
<td>OPT2090</td>
<td>Introduction to Vision Care 2</td>
</tr>
<tr>
<td>OPT2222</td>
<td>Ocular Pathology &amp; Pharmacology 1</td>
</tr>
<tr>
<td>OPT2223</td>
<td>Ocular Pathology &amp; Pharmacology 2</td>
</tr>
<tr>
<td>OPT2350</td>
<td>Advanced Ophthalmic Procedures 1</td>
</tr>
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<td>OPT2351</td>
<td>Advanced Ophthalmic Procedures 2</td>
</tr>
<tr>
<td>OPT2375</td>
<td>Refractometry</td>
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<td>OPT2375L</td>
<td>Refractometry Lab</td>
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<td>OPT2500</td>
<td>Contact Lens Theory</td>
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<tr>
<td>OPT2800L</td>
<td>Vision Care Lab 1</td>
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<tr>
<td>OPT2801L</td>
<td>Vision Care Lab 2</td>
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</table>
OPT2940  Ophthalmic Medical Practicum 1  4
OPT2941  Ophthalmic Medical Practicum 2  4
OPT2942  Ophthalmic Medical Practicum 3  4

Total Program Credits: 72

For individualized course sequence CLICK HERE

Employment Opportunities

The region has a high concentration of health care employers. According to the Florida Society of Ophthalmology there are 1,400 ophthalmologists in Florida. Employment of physicians and surgeons is projected to grow 22 percent from 2008 to 2018. Along with that growth, coupled with the increase in the aging of the population, the demand for COT personnel is expected to increase sharply.

Certified Ophthalmic Technologists (COAs, COTs, and COMTs) work closely with an ophthalmologist in a medical practice. They apply their knowledge of the evaluation of the ophthalmic patient with medical and surgical eye disorders by using their medical skills and high technology, specialized, diagnostic visual testing instrumentation. The information obtained by the COT is used and relied upon by the ophthalmologist to detect, evaluate, diagnose, and treat disease or injury. The duties of a COA include taking a patient's history, measuring visual acuity, assessing optical correction, testing pupils, ocular motility, inspection and assessment of the associated ocular tissues, external ocular examination, and recording intraocular pressure. In addition, the COT is a versatile and valuable member of the medical team by assisting other medical personnel in patient scheduling, performing administrative duties, and instructing and educating patients and their families. The further training of the COT allows for measurement of refractive error, recording the eyeglass prescription, the fitting and evaluation of contact lenses, and assisting in minor office-based ocular procedures, which also includes the supervision and training of other ophthalmic technicians. COMTs are further trained to assist the surgeon in the ambulatory or hospital-based operating room, and perform medical and surgical diagnostic and therapeutic procedures under the direction of the surgeon.

Career Path Notes

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. Upon successful completion of the program, standardized examination, and clinical internships, graduates will be qualified to be certified by the Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO) as a Certified Ophthalmic Assistant (COA®), Certified Ophthalmic Technician (COT®) or Certified Ophthalmic Medical Technologist (COMT®).

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Patient Care Assistant PSAV

Patient Care Assistant  (5233)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/PatientCare

Program Description
This PSAV program offers a broad foundation of knowledge and skills, expanding the traditional role of the nursing assistant. Students can begin their health careers by enrolling in the Patient Care Assistant program. This is the first step on the nursing or health care career ladder.
The Patient Care Assistant curriculum integrates classroom with clinical performance. Course content includes basic concepts in health science, nursing assistant, home health aide and patient care assisting.

**Program Accreditation**
This program is approved by the Florida Board of Nursing.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/program-learning-outcomes](http://www.palmbeachstate.edu/learningoutcomes/program-learning-outcomes).

**Admission Requirements**
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/admissions-applications.aspx](http://www.palmbeachstate.edu/admissions/admissions-applications.aspx).
- No high school diploma or GED is required.
- Attend a mandatory Patient Care Assistant information session.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Approximate length: 3 1/2 months. Program is offered full-time days and part-time evenings.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Amanda Sherrill, sherrila@palmbeachstate.edu, (561) 868-3537
Raywatte Sooklall, sooklalr@palmbeachstate.edu

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Group</th>
<th>Course Code</th>
<th>Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>A</td>
<td>HSC0003</td>
<td>Health Care Concepts</td>
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<td>HSC0003L</td>
<td>Health Care Concepts Lab</td>
<td>12</td>
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<td></td>
<td>HCP0120</td>
<td>Nursing Assistant</td>
<td>75</td>
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<td>B</td>
<td>HCP0300</td>
<td>Home Health Aide</td>
<td>50</td>
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<tr>
<td></td>
<td>HCP0620</td>
<td>Patient Care Assistant</td>
<td>75</td>
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</tbody>
</table>

Total Program Clock Hours: 290

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
Students who complete this program may provide patient care in hospitals, long-term care facilities, rehabilitation clinics or private homes.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.
Career Path Notes
The Patient Care Assistant program is designed to have multiple career options. Students who complete the program will have a base on which more complex skills can be added. Students who complete the program will receive certificates in nursing assisting (75 hours), home health aide (50 hours) and patient care assisting (75 hours) and will be eligible to take the Florida Certification Exam for Nursing Assistants.

Career Center
http://www.palmbeachstate.edu/career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Practical Nursing PSAV
Practical Nursing (5234) LIMITED ACCESS

ADDITION OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/LPN

Program Description
This PSAV program prepares graduates for employment as licensed practical nurses. The program includes but is not limited to theoretical instruction and clinical experience in: medical-surgical nursing, pharmacology and medication administration, geriatric and long term care nursing, and obstetrical and pediatric nursing. Graduates are eligible to take the NCLEX-PN state board examination to become licensed practical nurses. Clinical experiences are included as an integral part of this program.

Program Accreditation
This program is approved by the Florida Board of Nursing.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

• Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Practical Nursing
In addition to the above General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

• Take the TABE exam if not exempt from TABE testing. To determine is you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx
• Attend a mandatory Practical Nursing information session;
• Take the HESI (Health Education Systems Incorporated) Admission Assessment Exam. A cumulative score of 75 or higher is required;
• Submit a completed Practical Nursing program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Successfully complete all of the courses and achieve the required test scores in the program. Achieve an 11th grade level or higher in math, reading and language on the TABE or qualify for TABE exemption.

Program Length
1,350 Clock Hours
Full-time program: approximately 12 months

Location
The program is offered at the Lake Worth campus.

For More Information
• Amanda Sherrill, Nursing Career Pathway Specialist, sherrila@palmbeachstate.edu, (561) 868-3537
• Dr. Raywattie Sooklall, Assistant Nursing Director, sooklalr@palmbeachstate.edu, (561) 868-3560

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Group A</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td></td>
<td>HSC0003</td>
<td>Health Care Concepts</td>
<td>78</td>
</tr>
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<td></td>
<td>HSC0003L</td>
<td>Health Care Concepts Lab</td>
<td>12</td>
</tr>
<tr>
<td>Group B</td>
<td>HCP0121C</td>
<td>Nurse Aide &amp; Orderly (Articulated)</td>
<td>75</td>
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<tr>
<td>Group C</td>
<td>PRN0061C</td>
<td>Concepts of Fundamentals of Nursing 1</td>
<td>195</td>
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<tr>
<td></td>
<td>PRN0062C</td>
<td>Concepts of Fundamentals of Nursing 2</td>
<td>200</td>
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<td></td>
<td>PRN0063C</td>
<td>Concepts of Practical Nursing 1</td>
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<td></td>
<td>PRN0064C</td>
<td>Transitions into Practical Nursing</td>
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</table>

Total Program Clock Hours: 1,350

Employment Opportunities
The Licensed Practical Nurse is qualified for employment in hospitals, long-term care facilities, rehabilitation medical offices or clinics and as a private care provider.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.
Career Path Notes
An LPN is eligible for 11 credits towards the A.S. degree in Nursing.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Radiography AS
Radiography (2303) LIMITED ACCESS

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Radiography

Program Description
This degree program prepares the student to become a radiologic technologist, combining the high technology of medical imaging with skills of patient care to create X-ray images or radiographs. The program has a 24-month, competency-based curriculum that includes practical experience in local hospitals. Beginning each January, the program requires a full-time commitment between 8 a.m. and 4 p.m. daily. For more information, visit www.palmbeachstate.edu/programs/Radiography.

Program Accreditation
This program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 900, Chicago, IL 60606, phone (312) 704-5300, Web site: www.jrcert.org.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College

• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

• Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

• Submit placement test scores if not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx.

• Complete all other requirements for admission outlined in the Admission Procedures section of the college catalog.

Admission Requirements for Radiography
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

• Have a cumulative GPA of 2.0 or higher;
• Attend a mandatory Radiography open house information session;
• Complete all program prerequisite courses (listed below) with a grade of C or higher;
• Submit a completed Radiography program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Student must complete all courses listed in the catalog for this program with a grade of C or higher.

Program Length
This is a two-year program beginning in January each year and requires a full-time commitment. Students attend clinical education at local hospitals three days a week each semester.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Dr. Vicki Shaver, shaverv@PalmBeachState.edu, (561) 207-5067

To see when the course is offered, click the course number. To see a course description, click the course title.

Program Prerequisites

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
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<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
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General Education

<table>
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<tr>
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<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
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<td>BSC2086L</td>
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<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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<tr>
<td>MAC1105</td>
<td>College Algebra (or designated courses* from Area III)</td>
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<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
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Credits: 16

Required Courses

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<tr>
<td>CGS1100</td>
<td>Microcomputer Applications (or equivalent)</td>
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<tr>
<td>RTE1000</td>
<td>Introduction to Radiography</td>
<td>3</td>
</tr>
<tr>
<td>RTE1401</td>
<td>Radiographic Imaging 1</td>
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<td>Radiographic Imaging 1 Lab</td>
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<td>RTE1503</td>
<td>Radiographic Procedures 1</td>
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<td>RTE1503L</td>
<td>Radiographic Procedures 1 Lab</td>
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<td>RTE1513</td>
<td>Radiographic Procedures 2</td>
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<td>RTE1513L</td>
<td>Radiographic Procedures 2 Lab</td>
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<td>RTE1804</td>
<td>Radiographic Clinical Education 1</td>
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<td>RTE1814</td>
<td>Radiographic Clinical Education 2</td>
<td>2</td>
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<td>RTE2533</td>
<td>Radiographic Procedures 4</td>
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<td>RTE2533L</td>
<td>Radiographic Procedures 4 Lab</td>
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Credits: 57
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<tr>
<td>RTE2613</td>
<td>Radiologic Physics</td>
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<td>RTE2834</td>
<td>Radiographic Clinical Education 4</td>
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<td>RTE2130</td>
<td>Pharmacology for Medical Imaging</td>
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<td>RTE2844</td>
<td>Radiographic Clinical Education 5</td>
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<td>RTE2385</td>
<td>Radiobiology</td>
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<td>RTE2563</td>
<td>Advanced Medical Imaging</td>
<td>3</td>
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<td>RTE2473L</td>
<td>Radiography Seminar</td>
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<td>RTE2854</td>
<td>Radiographic Clinical Education 6</td>
<td>3</td>
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<td>RTE1457</td>
<td>Radiographic Imaging 2</td>
<td>2</td>
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<tr>
<td>RTE1457L</td>
<td>Radiographic Imaging 2 Lab</td>
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</tr>
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<td>RTE1523</td>
<td>Radiographic Procedures 3</td>
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<tr>
<td>RTE1523L</td>
<td>Radiographic Procedures 3 Lab</td>
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</tr>
<tr>
<td>RTE1824</td>
<td>Radiographic Clinical Education 3</td>
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</tbody>
</table>

Total Program Credits: 77

*MAC 1140, MAC 2233, MAC 2311, MAC 2312, MAC 2313, MAP 2302 or MAS 2103

For individualized course sequence [CLICK HERE]

**Employment Opportunities**

The job outlook is excellent for diagnostic imaging personnel. The program has a 100 percent job placement rate, and graduates work in hospitals, imaging centers and doctors' offices.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor). As a profession, radiography emphasizes career development which leads to additional certification in CT (computerized tomography), MRI (magnetic resonance imaging), nuclear medicine, radiation therapy, sonography, mammography and vascular imaging.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Respiratory Care AS**

**Respiratory Care (2148) LIMITED ACCESS**

**Type of Award**

AS - Associate in Science

**Program Website**

[www.palmbeachstate.edu/programs/RespiratoryCare](http://www.palmbeachstate.edu/programs/RespiratoryCare)

**Program Description**
This degree program is designed for the student who wants to be employed as a respiratory care practitioner. Earning the A.S. degree in respiratory care enables the student to take the National Board for Respiratory Care (NBRC) Registry Exam to become a Registered Respiratory Therapist (RRT). Graduates of this American Medical Association recognized and nationally accredited program have high employment success because of training in basic life support, advanced cardiac life support, neonatal resuscitation, pediatric life support, electrocardiography, pulmonary function technology and more.

Program Accreditation
Palm Beach State College Respiratory Care Program is accredited by the Commission on Accreditation for Respiratory Care (CoARC) 1248 Harwood Road, Bedford, Texas 76021-4244, (800) 874-5615.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
- Submit placement test scores if not exempt from placement testing. To determine if you are exempt, go to www.palmbeachstate.edu/advising/Placement-Testing.aspx.
- Complete all other requirements for admission outlined in the Admission Procedures section of the college catalog.

Admission Requirements for Respiratory Care
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).
- Have a cumulative GPA of 2.6 or higher;
- Attend a mandatory Respiratory Care open house information session;
- Complete all required program prerequisites (listed below) with a grade of C or higher. BSC2085/BSC2085L must be completed within 10 years of the application deadline;
- Submit a completed Respiratory Care program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Students must complete all courses listed in the catalog for this program with a grade of C or higher.

Program Length
This is a two-year program beginning in August each year. It requires a full-time commitment.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Nancy Latimer, Ph.D., RRT
Department Chair/Program Director
Palm Beach Gardens campus

For More Information
To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Program Prerequisites</th>
<th>Credits: 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any course from Mathematics - Area III with the MAC, MAP or MAS prefix</td>
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<tr>
<td>BSC2085 Anatomy and Physiology 1</td>
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<tr>
<td>General Education</td>
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<tr>
<td>Any course from Humanities - Area II</td>
<td>3</td>
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<tr>
<td>BSC2086 Anatomy and Physiology 2</td>
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<td>BSC2086L Anatomy and Physiology 2 Lab</td>
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<tr>
<td>CHM1032 Principles of Chemistry (or higher level Chemistry++) *</td>
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<td>ENC1101 College Composition 1 *</td>
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<tr>
<td>MCB2010 Microbiology</td>
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<td>MCB2010L Microbiology Lab</td>
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<tr>
<td>SYG2000 Introduction to Sociology *</td>
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<td>Required Courses</td>
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<td>PHY1001 Applied Physics (or higher level Physics++)</td>
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<td>RET1272 Fundamentals of Respiratory Care 1</td>
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<td>RET1272L Fundamentals of Respiratory Care 1 Lab</td>
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<td>RET1273 Fundamentals of Respiratory Care 2</td>
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AREAS OF STUDY

RET1273L  Fundamentals of Respiratory Care 2 Lab  2
RET1874L  Clinical Internship 1  1
RET1875L  Clinical Internship 2  3
RET1876C  Clinical Internship 3  4
RET2280C  Fundamentals of Respiratory Care Therapy 3  7
RET2534C  Fundamentals of Respiratory Care Therapy 4  7
RET2877L  Clinical Internship 4  2
RET2878L  Clinical Internship 5  2

Total Program Credits: 76

*It is suggested that these courses be completed prior to program entry.
+CHM1025, CHM1045, CHM1046, CHM2210, CHM2211 or approved transfer credit.
++PHY2048, PHY2049, PHY2053, PHY2053, PHY2054 or approved transfer credit.

For individualized course sequence CLICK HERE

Employment Opportunities
Respiratory care is one of the fastest growing professions in the country and in Florida. Palm Beach State graduates have enjoyed a high job placement rate.
Respiratory care, also known as respiratory therapy, is an allied health profession that cares for patients with deficiencies and abnormalities of the cardiopulmonary system. Respiratory therapists see a diverse group of patients ranging from newborn and pediatric patients to adults and the elderly. They bring help and relief to patients suffering from asthma, emphysema, chronic obstructive lung disease, pneumonia, cystic fibrosis, infant respiratory distress syndrome, acute respiratory distress, congestive heart failure and conditions brought on by shock, trauma or post-operative surgical complications. Respiratory therapists also are involved in many specialty areas of the hospital such, as labor and delivery, neonatal pediatric and adult intensive care, pulmonary function laboratory, sleep centers, pulmonary and cardiac rehabilitation, hyperbaric therapy, bronchoscopy and more. There are many opportunities outside of the hospital as well.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit www.palmbeachstate.edu/programs/Bachelor.
Earning the A.S. degree in respiratory care enables the student to take the National Board for Respiratory Care (NBRC) Registry Exam to become a Registered Respiratory Therapist (RRT).

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Sonography AS
Sonography (2313) LIMITED ACCESS

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Sonography

Program Description
This degree program combines creativity and advanced technological equipment to produce images of the body. The diagnostic medical sonographer works with other health care practitioners in the management, control and care of patients referred for ultrasound studies. Sonographers use high frequency sound waves to demonstrate body parts and assist physicians in the diagnosis of medical abnormalities. The sonographer must have an exceptional understanding of human anatomy and an artistic, creative, self-directed approach for locating and demonstrating anatomy and pathology.

Program Accreditation
This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, FL 33756, (727) 210-2350.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Sonography
In addition to the General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).
- Attend a mandatory Sonography open house information session;
- Have a cumulative GPA of 2.5 or higher;
- Proof of completion of a two-year allied health education program that is patient care related. Examples include but are not limited to: radiography, respiratory therapy, nursing, dental hygienist and paramedic with the "required classes for selection consideration" (see below);
- or
- A Bachelor degree with "required classes for selection consideration" (see below). Those applicants who have a Bachelor's degree are required to have direct patient-care experience (minimum of one year) or complete HSC2204 or HSC2531;
- or
- Proof of completion of an allied health education program from an accredited institution that is patient care related but less than two years, including but not limited to: medical assistant and EMT - PLUS one year of direct patient care employment with the "required classes for selection consideration" (see below);
- Submit a completed Sonography program application, located on the program website, and pay the application fee by the deadline.

Completion Requirements
Students must complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length
Total program credits: 72. The program has a four-semester competency-based curriculum. The courses are sequential and involve practical experience in local hospitals and clinics. Full-time commitment begins in the fall term.
Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Patty Braga, bragap@PalmBeachState.edu, (561) 207-5053

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
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<tbody>
<tr>
<td>BSC1010</td>
<td>Principles of Biology 1</td>
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<tr>
<td>BSC1010L</td>
<td>Principles of Biology 1 Laboratory</td>
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<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1</td>
</tr>
<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab</td>
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<tr>
<td>MAC1105</td>
<td>College Algebra (or higher course from Mathematics - Area III)</td>
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<td>ENC1101</td>
<td>College Composition 1</td>
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<td></td>
<td>Any course from Humanities - Area II</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
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<tr>
<td>PSY2012</td>
<td>General Psychology</td>
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<th>Non-Technical Core Requirements</th>
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<td>BSC2086</td>
<td>Anatomy and Physiology 2</td>
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<tr>
<td>PHY1001</td>
<td>Applied Physics (or equivalent)</td>
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<th>Technical Core Requirements*</th>
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<td>SON1311</td>
<td>Sonography Cross Sectional Anatomy</td>
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<tr>
<td>SON1100L</td>
<td>Principles and Protocols of Sonography Lab</td>
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<tr>
<td>SON1614</td>
<td>Medical Sonographic Physics 1</td>
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<td>SON1111</td>
<td>Abdominal Sonography 1</td>
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<td>SON1121</td>
<td>Sonographic OB/GYN 1</td>
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<tr>
<td>SON1000</td>
<td>Practical Aspects of Sonography 1</td>
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<td>SON1804L</td>
<td>Clinical Education 1</td>
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<tr>
<td>SON1618</td>
<td>Medical Sonographic Physics 2</td>
</tr>
<tr>
<td>SON1112</td>
<td>Abdominal Sonography 2</td>
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<td>SON122</td>
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<tr>
<td>SON1170</td>
<td>Sonography of the Circulatory System</td>
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<tr>
<td>SON1824L</td>
<td>Clinical Education 3</td>
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</tbody>
</table>
Total Program Credits: 72

* Technical Core courses must be taken sequentially.

For individualized course sequence [CLICK HERE]

**Employment Opportunities**

Students who complete the program may find employment in areas such as hospitals, physicians’ offices, laboratories and commercial companies.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

Sonographers may choose to achieve advanced certifications in specialized areas of sonography. After completion of the program, students are eligible to take the Registered Diagnostic Medical Sonographers (RDMS) exam. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Sonography CCC**

**Sonography (6312) LIMITED ACCESS**

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Sonography](http://www.palmbeachstate.edu/programs/Sonography)

**Program Description**

This college credit certificate program prepares students for a career as a sonographer, who combines creativity and advanced technological equipment to produce images of the body. The diagnostic medical sonographer works with other health care practitioners in the management, control and care of patients referred for ultrasound studies. Sonographers use high frequency sound waves to demonstrate body parts and assist physicians in the diagnosis of medical abnormalities. The sonographer must have an exceptional understanding of human anatomy and an artistic, creative, self-directed approach for locating and demonstrating anatomy and pathology.

**Program Accreditation**

This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, FL 33756, (727) 210-2350.

**General Admission Requirements to the College**

- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

- Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.
Admission Requirements for Sonography

In addition to the above General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

• Attend a mandatory Sonography open house session;
• Have a cumulative GPA of 2.5 or higher;
• Proof of completion of two-year allied health education program that is patient care related. Examples include but are not limited to: radiography, respiratory therapy, nursing, dental hygienist and paramedic with the "required classes for selection consideration" (see below);
  OR
• A Bachelor's degree with the "required classes for selection consideration" (see below). Those applicants who have a Bachelor's degree are required to have direct patient-care experience (minimum of one year) or complete HSC2204 or HSC2531.
  OR
• Proof of completion of an allied health education program from an accredited institution that is patient care related but less than two years, including but not limited to: medical assistant and EMT - PLUS one year of direct patient care employment with the "required classes for selection consideration" (see below);
• Submit a completed Sonography program application, located on the program website, and pay the application fee by the deadline.

**Required Classes for Selection Consideration:** college-level English, college-level Mathematics, Anatomy and Physiology 1 with Lab (completed within 10 years of the application deadline) and Applied Physics. Students who have completed an accredited radiology program may use radiographic physics to fulfill the applied physics requirement.

Completion Requirements

Students must complete all courses listed in the catalog for this program with a grade of "C" or higher.

Program Length

Total program credits: 42. This is a four-semester curriculum that begins in Fall term each year. The courses are sequential and involve practical experience in local hospitals and clinics. Full-time commitment begins in the fall term.

Location

The program is offered at the Palm Beach Gardens campus.

For More Information

Patty Braga, bragap@PalmBeachState.edu, (561) 207-5053

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Sonography Cross Sectional Anatomy</th>
<th>Credit Hours: 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>SON1311</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>SON1100L</td>
<td>Principles and Protocols of Sonography Lab</td>
<td>3</td>
</tr>
<tr>
<td>SON1614</td>
<td>Medical Sonographic Physics 1</td>
<td>3</td>
</tr>
<tr>
<td>SON1111</td>
<td>Abdominal Sonography 1</td>
<td>3</td>
</tr>
<tr>
<td>SON1121</td>
<td>Sonographic OB/GYN 1</td>
<td>3</td>
</tr>
<tr>
<td>SON1000</td>
<td>Practical Aspects of Sonography 1</td>
<td>3</td>
</tr>
</tbody>
</table>
SON1804L  Clinical Education 1  3
SON1618   Medical Sonographic Physics 2  3
SON1112   Abdominal Sonography 2  3
SON1122   Sonographic OB/GYN 2  3
SON1001   Practical Aspects of Sonography 2  3
SON1814L  Clinical Education 2  3
SON1170   Sonography of the Circulatory System  3
SON1824L  Clinical Education 3  4

Total Program Credit Hours: 42

For individualized course sequence CLICK HERE

Employment Opportunities
Students who complete the program may find employment in areas such as hospitals, physicians’ offices, laboratories and commercial companies.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other important information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Sonographers may choose to achieve advanced certification in specialized areas of sonography. After completion of the program, students are eligible to take the Registered Diagnostic Medical Sonographers (RDMS) exam. Credits earned in this program will transfer directly into the Associate in Science (A.S.) degree in sonography.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online:  http://online.onetcenter.org/

Surgical Technology PSAV
Surgical Technology (5235) LIMITED ACCESS

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/SurgicalTechnology

Program Description
This program is designed to prepare the student for employment as a surgical technologist. In a simulated surgical environment, the student will practice preparing, setting up and maintaining a sterile field; preparation of supplies and equipment for surgery; and patient preparation.
Course content includes surgical technology concepts, surgical techniques and procedures. Clinical learning experiences in an operating room and related areas are an integral part of this program.
Students in the surgical technology program learn through classroom instruction and six months of clinical experience in operating room and related areas.

Program Accreditation
This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) (www.caahep.org) 1361 Park St. Clearwater, FL 33756 (727)210-2350 upon recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC-STSA) 6 West Dry Creek Circle Suite 110 Littleton, CO 80120 (303)694-9262.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

General Admission Requirements to the College

• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

• Submit an official high school or GED transcript and official college/university transcripts from each post-secondary institution attended. Refer to the Admission Procedures section of the college catalog for more information regarding transcripts.

Admission Requirements for Surgical Technology
In addition to the above General Admission requirements, student must meet the following eligibility criteria to be considered for selection to the program. (Meeting admission criteria does not guarantee acceptance into the program).

• Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx
• Attend a mandatory Surgical Technology information session located on program website;
• Submit a completed Surgical Technology program application, located on the program website, by the deadline.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 11; English: 11; Mathematics: 10 or qualify for TABE exemption.

Program Length
Total program hours: 1,340 hours, three terms or approximately 13 ½ months. This is a full-time day program from 8:00 a.m. until 3:00 p.m. Monday through Thursday. (Clinical hours are 6:45 a.m. until 3:15 p.m.). There are two admission opportunities each year – Fall (September) and Spring (April).

Location
The program is offered at the Lake Worth campus.

For More Information
Jane Fisher, Fisherjm@PalmBeachState.edu, (561) 868-3561

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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<tr>
<td>HSC0003</td>
<td>Health Care Concepts</td>
<td>78</td>
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<tr>
<td>PRN0022</td>
<td>Body Structure and Function</td>
<td>69</td>
</tr>
<tr>
<td>STS0003</td>
<td>Introduction to Surgical Technology</td>
<td>96</td>
</tr>
<tr>
<td>STS0155L</td>
<td>Operating Room Technique</td>
<td>96</td>
</tr>
<tr>
<td>STS0005C</td>
<td>Principles of Asepsis</td>
<td>96</td>
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<tr>
<td>Course Code</td>
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</tr>
<tr>
<td>STS0150C</td>
<td>Surgical Technology Procedures</td>
<td>96</td>
</tr>
<tr>
<td>STS0805</td>
<td>Perioperative Anatomy and Medical Terminology</td>
<td>48</td>
</tr>
<tr>
<td>STS0805L</td>
<td>Perioperative Anatomy Lab</td>
<td>48</td>
</tr>
<tr>
<td>STS0008</td>
<td>Pharmacology for the Surgical Technologist</td>
<td>48</td>
</tr>
<tr>
<td>STS0003L</td>
<td>Introduction to Clinical Practicum</td>
<td>48</td>
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<tr>
<td>STS0120</td>
<td>Surgical Specialties 1</td>
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<tr>
<td>STS0255L</td>
<td>Surgical Specialties 1 Clinical</td>
<td>184</td>
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<tr>
<td>STS0121</td>
<td>Surgical Specialties 2</td>
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<td>STS0256L</td>
<td>Surgical Specialties 2 Clinical</td>
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</tr>
<tr>
<td>STS0949C</td>
<td>Clinical Practicum</td>
<td>185</td>
</tr>
</tbody>
</table>

(4 Clinical days per week for 6 weeks)

Total Program Clock Hours: 1,340

For individualized course sequence [CLICK HERE]

**Employment Opportunities**

Graduates of the program are eligible for employment in hospital operating rooms, outpatient surgical centers, labor and delivery units, physician's offices and medical sales positions.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other important information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

The Surgical Technology Program provides students with necessary job skills and motivation in keeping with standards of practice as established by the Association of Surgical Technologists (AST) and the Association of Operating Room Nurses (AORN) enabling them to qualify for, secure, maintain, and advance in gainful employment in the field of Surgical Technology.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
PUBLIC SAFETY

Auxiliary Law Enforcement Officer PSAV

Auxiliary Law Enforcement Officer (5602)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
Course work will include introduction to law enforcement, patrol, investigations, traffic crash investigations as well as training and proficiency demonstration in firearms, defensive tactics, vehicle operations and first aid.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Students must:

• Have a standard high school diploma or GED;
• Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
• Take the BAT or Shield Test.
• Submit a Letter of Authorization from sponsoring agency. Or if self sponsored, minimal background investigation to include fingerprints, driving record and medical.

Completion Requirements
Pass all modules with a minimum 80%. Meet the 100% attendance requirement established by FDLE.

Program Length
319 Hours

Location
This program is offered at the Lake Worth campus.

For More Information
Phil Berlingo, berlingp@PalmBeachState.edu, (561) 868-3378

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Clock Hours: 319</th>
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<tbody>
<tr>
<td>CJK0240</td>
<td>Law Enforcement Auxiliary Introduction</td>
</tr>
<tr>
<td>CJK0241</td>
<td>Law Enforcement Auxiliary Patrol and Traffic</td>
</tr>
<tr>
<td>CJK0242</td>
<td>Law Enforcement Auxiliary Investigations</td>
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<tr>
<td>CJK0422</td>
<td>Dart-Firing Stun Gun</td>
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### AREAS OF STUDY

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<thead>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CJK0031</td>
<td>CMS First Aide For Criminal Justice Officers</td>
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</tr>
<tr>
<td>CJK0040</td>
<td>Criminal Justice Firearms</td>
<td>80</td>
</tr>
<tr>
<td>CJK0051</td>
<td>Criminal Justice Defensive Tactics</td>
<td>80</td>
</tr>
<tr>
<td>CJK0020</td>
<td>CMS Law Enforcement Vehicle Operations</td>
<td>48</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 319

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Upon completion of this program you may seek a position as an Auxiliary Officer. In many agencies this is a volunteer position.

### Gainful Employment

Program length excludes this program from gainful employment reporting requirements.

### Career Path Notes

Palm Beach State College Criminal Justice Institute qualifies the completer to obtain Florida certification as a Law Enforcement Auxiliary Officer.

### Career Center

[www.palmbeachstate.edu/Career](#)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Crime Scene Technology AS

#### Crime Scene Technology (2435)

#### Type of Award

AS - Associate in Science

#### Program Website

[www.palmbeachstate.edu/programs/CriminalJustice](#)

#### Program Description

This degree program will prepare the student to operate behind the yellow crime scene tape. Crime scene technologists locate, collect, and identify physical evidence used to solve crimes. The student will learn how to properly collect and preserve physical evidence, how to photograph crime scenes and how to reconstruct crime scenes and vehicle accidents. Course content includes crime scene photography, fingerprint classification, crime scene safety and biological evidence.

#### Program Learning Outcomes

For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](#).

#### Admission Requirements

Students must:

- Have a standard high school diploma or GED;
- Complete an online Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](#).
Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if you attend full time or three years if you attend part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Ed Richard, richarde@PalmBeachState.edu, (561) 868-3773

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits: 18</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1 3</td>
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<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies 3</td>
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<tr>
<td></td>
<td>Any course from Humanities - Area II 3</td>
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<td></td>
<td>Any course from Mathematics - Area III 3</td>
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<tr>
<td>POS1041</td>
<td>Introduction to American Government 3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication 3</td>
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<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>CCJ1010</td>
<td>Introduction to Criminology 3</td>
</tr>
<tr>
<td>CCJ1020</td>
<td>Administration of Criminal Justice</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
</tr>
<tr>
<td>CCJ1618</td>
<td>Criminal Psychology 3</td>
</tr>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications 3</td>
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<tr>
<td>CJB2713</td>
<td>Introduction to Forensic Science 3</td>
</tr>
<tr>
<td>CJE1300</td>
<td>Police Administration 1 3</td>
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<td>CJL2100</td>
<td>Criminal Law 3</td>
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<table>
<thead>
<tr>
<th>Core Program Requirements</th>
<th>Credits: 28</th>
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<tbody>
<tr>
<td>CJB1465</td>
<td>Injury and Death Investigation 3</td>
</tr>
<tr>
<td>CJB1711</td>
<td>Introduction to Crime Scene Technology 3</td>
</tr>
<tr>
<td>CJB1712</td>
<td>Crime Scene Photography 1 3</td>
</tr>
<tr>
<td>CJB1721</td>
<td>Advanced Crime Scene Technology 3</td>
</tr>
<tr>
<td>CJB1722</td>
<td>Crime Scene Photography 2 3</td>
</tr>
<tr>
<td>CJB2703</td>
<td>Crime Scene Safety 2</td>
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</tbody>
</table>
CJB2704  Courtroom Presentation of Scientific Evidence  3
CJB2735  Fingerprint Classification  3
CJB2736  Latent Fingerprint Development  3
CJB2748  Biological Evidence  2

Total Program Credits: 64

For individualized course sequence CLICK HERE

Employment Opportunities
Upon completion of the program, you may seek employment as a crime scene investigator or evidence technician for law enforcement agencies, medical examiner's office, legal firms, the insurance industry or private forensic labs. Forensic science technicians (crime scene) investigate crimes by collecting and analyzing physical evidence. Often, they specialize in areas such as DNA analysis or firearm examination, performing tests on weapons or on substances such as fiber, glass, hair, tissue and body fluids to determine their significance to the investigation.

Career Path Notes
Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online:  http://online.onetcenter.org/

Crime Scene Technology CCC

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
This college credit certificate program will prepare the student to operate behind the yellow crime scene tape. Crime scene technologists locate, collect, and identify physical evidence used to solve crimes. The student will learn how to properly collect and preserve physical evidence, how to photograph crime scenes and how to reconstruct crime scenes and vehicle accidents.
Course content includes crime scene photography, fingerprint classification, crime scene safety and biological evidence.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Total program credits: 28.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Ed Richard, richarde@PalmBeachState.edu, (561) 868-3773

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 28</th>
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<tbody>
<tr>
<td>CJB1711</td>
<td>Introduction to Crime Scene Technology</td>
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<td></td>
<td>3</td>
</tr>
<tr>
<td>CJB1712</td>
<td>Crime Scene Photography 1</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CJB1722</td>
<td>Crime Scene Photography 2</td>
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<td></td>
<td>3</td>
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<tr>
<td>CJB1721</td>
<td>Advanced Crime Scene Technology</td>
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<td>CJB2703</td>
<td>Crime Scene Safety</td>
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<td>CJB2704</td>
<td>Courtroom Presentation of Scientific Evidence</td>
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<td>3</td>
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<tr>
<td>CJB2736</td>
<td>Latent Fingerprint Development</td>
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<td></td>
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<tr>
<td>CJB2748</td>
<td>Biological Evidence</td>
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<tr>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Total Program Credits: 28

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
The student who completes the program may find employment as a crime scene technologist, evidence technician, medical examiner investigator, medical investigator, insurance investigator or forensic paralegal.

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**
Credits earned in this certificate program will transfer directly into the associate in science (A.S.) degree in Crime Scene Technology.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Criminal Justice Academy - Law Enforcement Officer PSAV

Law Enforcement Officer Program (5600) LIMITED ACCESS

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
The Criminal Justice Academy is a limited access program governed by Palm Beach State, Region XII Justice Training Council and the Florida Criminal Justice Standards and Training Commission. The Law Enforcement Basic Recruit Training prepares students as entry-level law enforcement officers in the State of Florida. Practical skills and simulated activities complement the classroom instruction. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Certification Examination. This minimum standards class is regulated by Florida statutes and is a highly structured and disciplined program with special rules, policies and procedures.

Program Learning Outcomes
Go to www.palmbeachstate.edu/LearningOutcomes for detailed information.

Admission Requirements
All candidates entering the program must have proof of a standard high school diploma or U.S. GED and are required to complete the Selection Center Testing through Palm Beach State or enter under the auspices of a Palm Beach County law enforcement agency. Additionally, they must complete a Palm Beach State application, achieve passing scores on the Basic Ability Test (BAT), and successfully pass a fitness ability test, a medical examination, a complete drug screen, and a criminal background investigation that includes a military, employment and education check. All candidates will be required to successfully pass a psychological exam and a polygraph exam. Successful candidates will be accepted into the academy program. For information on testing or academy beginning dates, call (561) 868-3398 or visit the Web site at www.palmbeachstate.edu/programs/CriminalJustice.

Meeting with Rules and Regulations
Students registering in the Law Enforcement, Corrections or Crossover Academy must meet and abide by the rules and regulations of the Palm Beach State Criminal Justice Institute. These rules are provided in the Academy Rules and Regulations. Further, students are also subject to the rules and regulations of the Criminal Justice Standards and Training Commission (CJSTC) and Florida Department of Law Enforcement (FDLE).

Completion Requirements
Modular Examination Failure
Failure of any modular examination in academy training will entitle the student recruit to one re-test (not the same test), which must be taken before the academy ends. Failure of the re-test will result in the student repeating the module.

Statewide Examination and Failure
At the completion of academic training, the applicant must file with CJSTC to take the statewide certification examination. There is a $100.00 fee for filing. The test will be developed and administered by CJSTC. A total of three attempts will be permitted. Failure of the third test attempt will necessitate repeating the complete academy training program.

Program Length
Total program hours: 770
Approximate program length: 6 months fulltime, 9 months parttime

Location
The program is offered at the Lake Worth location.

For More Information
Julie Cardinal, cardinaj@PalmBeachState.edu, (561) 868-3398 Full-time
Gene Hall, halle@PalmBeachState.edu, (561) 868-3868 Part-time

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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</thead>
<tbody>
<tr>
<td>CJK0001</td>
<td>Introduction to Law Enforcement</td>
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<tr>
<td>CJK0012</td>
<td>Legal</td>
<td>62</td>
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<tr>
<td>CJK0013</td>
<td>Interactions in a Diverse Community</td>
<td>40</td>
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<td>CJK0014</td>
<td>Interviewing and Report Writing</td>
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<td>CJK0064</td>
<td>Fundamentals of Patrol</td>
<td>35</td>
</tr>
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<td>CJK0065</td>
<td>Calls for Service</td>
<td>36</td>
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<td>CJK0077</td>
<td>Criminal Investigations</td>
<td>50</td>
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<td>CJK0078</td>
<td>Crime Scene to Courtroom</td>
<td>35</td>
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<tr>
<td>CJK0092</td>
<td>Critical Incidents</td>
<td>44</td>
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<tr>
<td>CJK0087</td>
<td>Traffic Stops</td>
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<tr>
<td>CJK0084</td>
<td>DUI Traffic Stops</td>
<td>24</td>
</tr>
<tr>
<td>CJK0088</td>
<td>Traffic Crash Investigations</td>
<td>32</td>
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<tr>
<td>CJK0020</td>
<td>CMS Law Enforcement Vehicle Operations</td>
<td>48</td>
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<tr>
<td>CJK0031</td>
<td>CMS First Aide For Criminal Justice Officers</td>
<td>40</td>
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<tr>
<td>CJK0040</td>
<td>Criminal Justice Firearms</td>
<td>80</td>
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<tr>
<td>CJK0051</td>
<td>Criminal Justice Defensive Tactics</td>
<td>80</td>
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<tr>
<td>CJK0422</td>
<td>Dart-Firing Stun Gun</td>
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</tr>
<tr>
<td>CJK0096</td>
<td>Criminal Justice Officer Physical Fitness Training (LE)</td>
<td>60</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 770

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

The Law Enforcement Officer Program provides eligibility for certification as a Florida law enforcement officer.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Students completing either concentration of the Criminal Justice Academies are strongly encouraged to continue their education by completing the A.S. degree in Criminal Justice Technology. Students completing the Law Enforcement program or the Corrections programs automatically earn credits towards the A.S. degree in Criminal Justice Technology.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:
Criminal Justice Academy-Corrections Officer PSAV

Corrections Officer Program (5601) LIMITED ACCESS

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
The Criminal Justice Academy offers this course meeting all requirements established by Palm Beach State College, the Florida Criminal Justice Standards and Training Commission and the Region XII Training Council. The Corrections Basic Recruit Training program prepares students as entry level correctional officers in the state of Florida. Practical skills and simulated activities complement the classroom instruction. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Officer Certification Examination (SOCE). This minimum standards class is regulated by Florida Statutes and Florida Administrative Code and is a highly structured and disciplined program with special rules, policies and procedures.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
All candidates entering the program must have proof of a standard high school diploma or U.S. GED and are required to complete the Selection Center Testing through Palm Beach State or enter under the auspices of a Palm Beach County law enforcement or correctional agency. Additionally, they must complete a College application, achieve passing scores on the Basic Ability Test (BAT), a medical examination, a complete drug screen, and a criminal background investigation that includes a military, credit, employment and education check. All candidates will be required to successfully pass a psychological exam and a polygraph exam.
Successful candidates will be accepted into the academy program. For information on testing or academy beginning dates, visit www.palmbeachstate.edu/programs/CriminalJustice or call (561) 868-3398.

Completion Requirements
Modular Examination Failure:
Students are entitled to one re-test should they fail any of the examinations or proficiency tests which must be taken before the completion of the academy. Failure of the re-test will result in the student repeating that module.
State Officer Certification Examination:
At the completion of the academy, the applicant must file with the Criminal Justice Standards and Training Commission (CJSTC) to take the officer certification examination. A student has three attempts to pass this examination and if the examination is not passed after three attempts, the student must take the entire academy program over.

Program Length
Total program hours: 420
Approximate program length: 3 months if taken full time

Location
The program is offered at the Lake Worth campus.

For More Information
Kevin Wood, woodk@PalmBeachState.edu, (561) 868-3408
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>CJK0300</td>
<td>Introduction to Corrections</td>
<td>32</td>
</tr>
<tr>
<td>CJK0305</td>
<td>Correctional Communications</td>
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<td>CJK0310</td>
<td>Correctional Officer Safety</td>
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<td>CJK0315</td>
<td>Correctional Facility and Equipment</td>
<td>8</td>
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<td>CJK0320</td>
<td>Correctional Intake and Release</td>
<td>18</td>
</tr>
<tr>
<td>CJK0051</td>
<td>Criminal Justice Defensive Tactics</td>
<td>80</td>
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<tr>
<td>CJK0040</td>
<td>Criminal Justice Firearms</td>
<td>80</td>
</tr>
<tr>
<td>CJK0031</td>
<td>CMS First Aide For Criminal Justice Officers</td>
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<td>CJK0325</td>
<td>Supervising in a Correctional Facility</td>
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<td>CJK0330</td>
<td>Supervising Special Populations</td>
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<tr>
<td>CJK0335</td>
<td>Responding to Correctional Incidents and Emergencies</td>
<td>16</td>
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<tr>
<td>CJK0340</td>
<td>Correctional Officer Wellness and Physical Abilities</td>
<td>30</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 420

For individualized course sequence [CLICK HERE]

Employment Opportunities

This program provides eligibility for certification as a Florida Corrections Officer which, upon certification, allows the graduate to be employed anywhere in the State of Florida as a corrections officer.

Gainful Employment

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

Career Path Notes

Students completing this program are strongly encouraged to continue their education by completing the A.A. or A.S. degree in Criminal Justice.

Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

Criminal Justice Technology-General (Non-Sworn) AS

Criminal Justice Technology / General (Non-Sworn) Concentration  (AS 2611)

Type of Award

AS - Associate in Science
Program Website  
www.palmbeachstate.edu/programs/CriminalJustice

Program Description  
This degree program is for students wanting a degree in Criminal Justice Technology, but are not sworn officers. Course content includes police administration, criminal law, probation & parole, and criminal investigation.

Program Learning Outcomes  
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements  
No Special admission requirements for the program.

Completion Requirements  
Successfully complete all of the courses in the program.

Program Length  
The program can be finished in two years if you attend full time or three years if you attend part time.

Location  
The program is offered at the Lake Worth campus.

For More Information  
Ed Richard, richarde@PalmBeachState.edu, (561) 868-3773

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education  
Credits: 18

ENC1101  
College Composition 1  
3
Any course from Mathematics - Area III  
3

POS1041  
Introduction to American Government  
3

HSC2100  
Health Concepts and Strategies  
3

SPC1017  
Fundamentals of Speech Communication  
3
Any course from Humanities - Area II  
3

Required Courses  
Credits: 21

CCJ1010  
Introduction to Criminology  
3

CCJ1020  
Administration of Criminal Justice  
3

CJJ2002  
Juvenile Delinquency  
3

CJB2713  
Introduction to Forensic Science  
3

CJE1300  
Police Administration 1  
3

CCJ1618  
Criminal Psychology  
3

CJL2100  
Criminal Law  
3

Required Concentration  
Credits: 15

CCJ/CJE/CJL/CJB/DSC courses  
12
CJE1711  Criminal Justice Capstone Course  3
Electives - Choose 6 credits  Credits:6
CJE1301  Police Administration 2  3
CJE2600  Criminal Investigation  3
CJL1062  Introduction to Constitutional Law  3
CJL2130  Laws of Evidence  3
CJL2403  Law of Arrest, Search, and Seizure  3
CGS1100  Microcomputer Applications  3
DSC1002  Terrorism and U.S. Security  3
FFP1824  Basic Incident Management System I-200  1
DSC1590  Intelligence Analysis and Security Management  3
DSC1242  Transportation and Border Security  3
FFP1822  Introduction to Emergency Management and Homeland Security  3

Total Program Credits: 60

Employment Opportunities
Upon completion of this program, you may seek employment as in a law enforcement agency or related business or company. Nationally, in 2006, seventy-nine percent were employed by local governments. State police agencies employed about 11 percent, and various Federal agencies employed about 7 percent. A small proportion worked for educational services, rail transportation, and contract investigation and security services.

Career Path Notes
Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Criminal Justice Technology-Law Enforcement Officer AS
Criminal JusticeTechnology - Law Enforcement Officer Concentration  (AS 2606)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
This degree program is a limited access program for the Criminal Justice Academy student (Corrections and Law Enforcement certificate program students) and/or the correction and law enforcement officer who wishes to advance in his or her career. The student must contact the Criminal Justice Institute regarding admission requirements to the Academies prior to entering the Criminal Justice Technology program. Course content includes police administration, criminal law, probation & parole, and criminal investigation.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
Students must have a minimum 2.0 GPA to be admitted into this program. Students who wish to be admitted to the Criminal Justice Institute should seek counseling from the Institute. Those who wish to be admitted to the A.S. degree program should seek counseling from the Criminal Justice Department. This program requires that the student hold a Florida Law Enforcement or Corrections Certification or that the student plans to attend the Palm Beach State Criminal Justice Institute for Law Enforcement or Corrections.

**Completion Requirements**
Successfully complete all of the courses in the program.

**Program Length**
The program can be finished in two years if you attend full time or three years if you attend part time.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Ed Richard, richarde@PalmBeachState.edu, (561) 868-3773

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits: 18</th>
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<tbody>
<tr>
<td>ENC1101 College Composition 1</td>
<td>3</td>
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<tr>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
</tr>
<tr>
<td>POS1041 Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>HSC2100 Health Concepts and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017 Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>Any course from Humanities - Area II</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits: 21</th>
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<tbody>
<tr>
<td>CCJ1010 Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CCJ1020 Administration of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJJ2002 Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJB2713 Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CJE1300 Police Administration 1</td>
<td>3</td>
</tr>
<tr>
<td>CJL2100 Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJE1711 Criminal Justice Capstone Course</td>
<td>3</td>
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Required Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CJE1301</td>
<td>Police Administration 2</td>
<td>3</td>
</tr>
<tr>
<td>CCJ1618</td>
<td>Criminal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CJE2600</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>DSC1002</td>
<td>Terrorism and U.S. Security</td>
<td>3</td>
</tr>
<tr>
<td>DSC1242</td>
<td>Transportation and Border Security</td>
<td>3</td>
</tr>
<tr>
<td>DSC1590</td>
<td>Intelligence Analysis and Security Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP1822</td>
<td>Introduction to Emergency Management and Homeland Security</td>
<td>3</td>
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</tbody>
</table>

Total Program Credits: 60

Employment Opportunities

Upon completion of this program, you may seek employment as a Law Enforcement Officer. It is necessary to complete the Police Academy to be hired as a Law Enforcement Officer in Florida. Nationally, in 2006, seventy-nine percent were employed by local governments. State police agencies employed about 11 percent, and various Federal agencies employed about 7 percent. A small proportion worked for educational services, rail transportation, and contract investigation and security services.

Career Path Notes

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/

Cross-Over CMS Law Enforcement Officer to Correctional Officer PSAV

Cross-Over CMS Law Enforcement to Correctional Officer (5614)

Type of Award

PSAV - Post Secondary Adult Vocational Certificate
Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
The Criminal Justice Institute (CJI) offers this course meeting all requirements established by Palm Beach State College, the Florida Criminal Justice Standards and Training Commission and the Region XII Training Council. The Law Enforcement Officer Cross-Over to Correctional Officer prepares currently certified Law Enforcement Officers to become certified Correctional Officers in the State of Florida. Practical skills and simulated activities complement the classroom instruction. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Officer Certification Examination (SOCE). This minimum standards class is regulated by Florida Statutes and Florida Administrative Code and is a highly structured and disciplined program with special rules, policies and procedures.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Students must:

- Complete an online Application for Admission, located a www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Be an active certified officer in the discipline the officer is moving from; or
- Have successfully completed a Commission-approved Basic Recruit Training program and passed the State Officer Certification Examination within four years, for the discipline the officer is moving from.
- Provide a letter of good standing from their agency.

Completion Requirements
Modular Examination Failure:
Student are entitled to one re-test should they fail any of the examinations or proficiency tests which must be taken before the completion of the academy. Failure of the re-test will result in the student repeating that module.

State Officer Certification Examination:
At the completion of the academy, the applicant must file with the Criminal Justice Standards and Training Commission (CJSTC) to take the officer certification examination. A student has three attempts to pass this examination and if the examination is not passed after three attempts the student must take the entire academy program over

Program Length
Total Program Hours is 172

Location
This program is offered at the Lake Worth campus.

For More Information
Julie Cardinal, cardinaj@PalmBeachState.edu, (561) 868-3402

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>CJK0200</td>
<td>Overview of Corrections</td>
<td>14</td>
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<tr>
<td>CJK0310</td>
<td>Correctional Officer Safety</td>
<td>16</td>
</tr>
<tr>
<td>CJK0315</td>
<td>Correctional Facility and Equipment</td>
<td>8</td>
</tr>
<tr>
<td>CJK0320</td>
<td>Correctional Intake and Release</td>
<td>18</td>
</tr>
</tbody>
</table>
For individualized course sequence: [Click Here]

**Employment Opportunities**

This program provides eligibility for certification as a Correctional Officer which, upon certification, allows the graduate to be employed anywhere in the State of Florida as a Correctional Officer.

**Gainful Employment**

Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**

Students completing this program are strongly encouraged to continue their education by completing the A.A. or A.S. degree in Criminal Justice. Students completing the Cross-Over program and passing the SOCE automatically earn credits towards a Criminal Justice Degree.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)

O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Cross-Over Correctional Officer to CMS Law Enforcement Officer PSAV**

**Cross-Over Correctional Officer to CMS Law Enforcement** (5613)

**Type of Award**

PSAV - Post Secondary Adult Vocational Certificate

**Program Website**

[www.palmbeachstate.edu/programs/CriminalJustice](http://www.palmbeachstate.edu/programs/CriminalJustice)

**Program Description**

The Criminal Justice Institute (CJI) offers this course meeting all requirements established by Palm Beach State College, the Florida Criminal Justice Standards and Training Commission and the Region XII Training Council. The Correctional Cross-over to Law Enforcement prepares currently certified Correctional Officers to become certified Law Enforcement Officers in the State of Florida. Practical skills and simulated activities complement the classroom instruction. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Officer Certification Examination (SOCE). This minimum standards class is regulated by Florida Statutes and Florida Administrative Code and is a highly structured and disciplined program with special rules, policies and procedures.

**Program Learning Outcomes**
Admission Requirements

Students must:

- Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Be an active certified officer in the discipline the officer is moving from; or
- Have successfully completed a Commission-approved Basic Recruit Training program and passed the State Officer Certification Examination within four years, for the discipline the officer is moving from.
- Provide a letter of good standing from their agency.

Completion Requirements

Modular Examination Failure:
Students are entitled to one re-test should they fail any of the examinations or proficiency tests which must be taken before the completion of the academy. Failure of the re-test will result in the student repeating that module. Failure of any three examinations will result in the student being dismissed from the program.

State Officer Certification Examination:
At the completion of the academy, the applicant must file with the Criminal Justice Standards and Training Commission (CJSTC) to take the officer certification examination. A student has three attempts to pass this examination and if the examination is not passed after three attempts, the student must take the entire academy program over.

Program Length
Total program hours is 515.

Location
This program is offered at the Lake Worth and Belle Glade campuses.

For More Information
Gene Hall, halle@PalmBeachState.edu, (561) 868-3868

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>CJK0293</td>
<td>Overview of Law Enforcement</td>
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<tr>
<td>CJK0297</td>
<td>Interactions in Crisis Situations</td>
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<td>CJK0296</td>
<td>Reporting Procedures</td>
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<td>CJK0064</td>
<td>Fundamentals of Patrol</td>
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<td>CJK0065</td>
<td>Calls for Service</td>
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<td>CJK0077</td>
<td>Criminal Investigations</td>
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<td>CJK0078</td>
<td>Crime Scene to Courtroom</td>
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<tr>
<td>CJK0087</td>
<td>Traffic Stops</td>
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<tr>
<td>CJK0084</td>
<td>DUI Traffic Stops</td>
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<td>CJK0088</td>
<td>Traffic Crash Investigations</td>
</tr>
<tr>
<td>CJK0092</td>
<td>Critical Incidents</td>
</tr>
<tr>
<td>CJK0393</td>
<td>Crossover Program Updates</td>
</tr>
<tr>
<td>CJK0020</td>
<td>CMS Law Enforcement Vehicle Operations</td>
</tr>
</tbody>
</table>
Dart-Firing Stun Gun  8
Crossover Handgun Transition  24
Correctional Crossover to Law Enforcement Officer Wellness  35

Total Program Clock Hours: 515

For individualized course sequence  CLICK HERE  

**Employment Opportunities**
This program provides eligibility for certification as a Florida Law Enforcement Officer which, upon completion, allows the graduate to be employed anywhere in the State of Florida as a Law Enforcement Officer.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
Students completing this program are strongly encouraged to continue their education by completing the A.A. or A.S. degree in Criminal Justice. Students completing the Cross-over program and passing the SOCE automatically earn credits towards a Criminal Justice degree.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

**Emergency Management AS**

**Emergency Management (2438)**

**ORIGINAL PROGRAM HAS BEEN REPLACED WITH TWO NEW PROGRAM CONCENTRATIONS.**

**ADDENDUM** October 30, 2015 (action based on curriculum minutes dated March 19, 2015) The current Emergency Management program version (2438) is suspended and no longer taking new students.

**Type of Award**
AS - Associate in Science

**Program Website**
www.palmbeachstate.edu/programs/EmergencyMgmt

**Program Description**
This degree program prepares the student to work in a variety of fields requiring expertise in the field of emergency management.
Emergency management personnel plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.
Upon completion, the student will be able to prepare and analyze damage assessments, coordinate disaster response or crisis management activities, prepare emergency management plans, have knowledge of homeland and border security initiatives, mitigate damages from emergency events, and help public and private sector entities recover and resume operations in a timely manner.
The program will provide the student with several national certifications from the Federal Emergency Management Administration (FEMA).

**Program Learning Outcomes**
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**Admission Requirements**
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Application.aspx.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
The program can be finished in two years of full-time enrollment or three years part-time.

**Location**
The program is offered online.

**For More Information**
Martin Deloach, deloachm@PalmBeachState.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

### General Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
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<tr>
<td>ENC1102</td>
<td>College Composition 2</td>
<td>3</td>
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<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>POS1041</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Natural Sciences - Area IV, Tier 1 &amp; 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Mathematics - Area III</td>
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### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP1822</td>
<td>Emergency Management Systems Principles and Practices (Introduction to Emergency Management)</td>
<td>3</td>
</tr>
<tr>
<td>FFP1830</td>
<td>Hazards Analysis and Impacts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1820</td>
<td>Basic Emergency Planning Concepts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1841</td>
<td>Business Contingency Planning</td>
<td>3</td>
</tr>
<tr>
<td>FFP1882</td>
<td>Emergency Operations Center (EOC) Operations and Design</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>FFP2840</td>
<td>Emergency Response and Recovery Operations</td>
<td>3</td>
</tr>
<tr>
<td>FFP2842</td>
<td>Defending Communities, Bridging Disaster Preparedness, Recovery, Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP2880</td>
<td>Emergency Management Public Policy, Relations and Education</td>
<td>3</td>
</tr>
<tr>
<td>C JL1062</td>
<td>Introduction to Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>FFP1850</td>
<td>Public Relations and Media Interactions in Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP2800</td>
<td>Public Education and Personnel Development in Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>DSC1590</td>
<td>Intelligence Analysis and Security Management</td>
<td>3</td>
</tr>
<tr>
<td>DSC1242</td>
<td>Transportation and Border Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 60

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
Organizations employing graduates include county governments, city and town governments, various federal agencies, private corporations and companies involved with disaster recovery.
Some entry-level positions include emergency management directors, emergency management coordinators, emergency planners and emergency preparedness program specialist.

**Career Path Notes**
Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, visit [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Emergency Management AS - Emergency Management Concentration**

Emergency Management - Emergency Management Concentration (AS 2438E)

ADDENDUM October 30, 2015 (action based on curriculum minutes dated March 19, 2015-new program concentration)

**Type of Award**
AS - Associate in Science

**Program Website**
[www.palmbeachstate.edu/programs/EmergencyMgmt](http://www.palmbeachstate.edu/programs/EmergencyMgmt)
Program Description
This degree program prepares the student to work in a variety of fields requiring expertise in the field of emergency management. Emergency management personnel plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.
Upon completion, the student will be able to prepare and analyze damage assessments, coordinate disaster response or crisis management activities, prepare emergency management plans, have knowledge of homeland and border security initiatives, mitigate damages from emergency events, and help public and private sector entities recover and resume operations in a timely manner.
The program will provide the student with several national certifications from the Federal Emergency Management Administration (FEMA).

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Application.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part-time.

Location
The program is offered online.

For More Information
Martin Deloach, deloachm@PalmBeachState.edu, (561) 868-3834
To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Credits: 21
ENC1101 College Composition 1 3
ENC1102 College Composition 2 3
SPC1017 Fundamentals of Speech Communication 3
POS1041 Introduction to American Government 3
Any course from Natural Sciences - Area IV, Tier 1 & 2 3
Any course from Humanities - Area II 3
Any course from Mathematics - Area III 3

Core Courses Credits: 27
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FFP1822</td>
<td>Emergency Management Systems Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Introduction to Emergency Management)</td>
<td></td>
</tr>
<tr>
<td>FFP1830</td>
<td>Hazards Analysis and Impacts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1820</td>
<td>Basic Emergency Planning Concepts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1841</td>
<td>Business Contingency Planning</td>
<td>3</td>
</tr>
<tr>
<td>FFP1850</td>
<td>Public Relations and Media Interactions in Emergency</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>FFP2800</td>
<td>Public Education and Personnel Development in Emergency</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>SYG1251</td>
<td>Cross-Cultural Communications</td>
<td>3</td>
</tr>
<tr>
<td>EVR2266</td>
<td>Survey of Environmental Mapping/GIS/Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>XXX2XXX</td>
<td>Public Health</td>
<td>3</td>
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</table>

**Required Concentration Courses**

Credits: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FFP2842</td>
<td>Defending Communities, Bridging Disaster Preparedness, Recovery,</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mitigation</td>
<td></td>
</tr>
<tr>
<td>FFP2840</td>
<td>Emergency Response and Recovery Operations</td>
<td>3</td>
</tr>
<tr>
<td>FFP1882</td>
<td>Emergency Operations Center (EOC) Operations and Design</td>
<td>3</td>
</tr>
<tr>
<td>DSC2XXX</td>
<td>Emergency Management Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 60

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Organizations employing graduates include county governments, city and town governments, various federal agencies, private corporations and companies involved with disaster recovery. Some entry-level positions include emergency management directors, emergency management coordinators, emergency planners and emergency preparedness program specialist.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State's Bachelor of Applied Science program in Supervision and Management. For more information, visit [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Emergency Management AS - Homeland Security Concentration

Emergency Management - Homeland Security Concentration (AS 2438H)

ADDENDUM October 30, 2015 (action based on curriculum minutes dated March 19, 2015-new program concentration)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/EmergencyMgmt

Program Description
This degree program prepares the student to work in a variety of fields requiring expertise in the field of emergency management.
Emergency management personnel plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.
Upon completion, the student will be able to prepare and analyze damage assessments, coordinate disaster response or crisis management activities, prepare emergency management plans, have knowledge of homeland and border security initiatives, mitigate damages from emergency events, and help public and private sector entities recover and resume operations in a timely manner.
The program will provide the student with several national certifications from the Federal Emergency Management Administration (FEMA).

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Application.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part-time.

Location
The program is offered online.

For More Information
Martin Deloach, deloachm@PalmBeachState.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits: 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1 3</td>
</tr>
<tr>
<td>ENC1102</td>
<td>College Composition 2 3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication 3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>POS1041</td>
<td>Introduction to American Government</td>
</tr>
<tr>
<td></td>
<td>Any course from Natural Sciences - Area IV, Tier 1 &amp; 2</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
</tr>
<tr>
<td></td>
<td>Any course from Mathematics - Area III</td>
</tr>
</tbody>
</table>

### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP1822</td>
<td>Emergency Management Systems Principles and Practices (Introduction to Emergency Management)</td>
<td>3</td>
</tr>
<tr>
<td>FFP1830</td>
<td>Hazards Analysis and Impacts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1820</td>
<td>Basic Emergency Planning Concepts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1841</td>
<td>Business Contingency Planning</td>
<td>3</td>
</tr>
<tr>
<td>FFP1850</td>
<td>Public Relations and Media Interactions in Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>FFP2800</td>
<td>Public Education and Personnel Development in Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>SYG1251</td>
<td>Cross-Cultural Communications</td>
<td>3</td>
</tr>
<tr>
<td>EVR2266</td>
<td>Survey of Environmental Mapping/GIS/Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>XXX2XXX</td>
<td>Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required Concentration Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC1242</td>
<td>Transportation and Border Security</td>
<td>3</td>
</tr>
<tr>
<td>DSC1590</td>
<td>Intelligence Analysis and Security Management</td>
<td>3</td>
</tr>
<tr>
<td>DSC1002</td>
<td>Terrorism and U.S. Security</td>
<td>3</td>
</tr>
<tr>
<td>DSC2XXX</td>
<td>Emergency Management Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 60

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Organizations employing graduates include county governments, city and town governments, various federal agencies, private corporations and companies involved with disaster recovery. Some entry-level positions include emergency management directors, emergency management coordinators, emergency planners and emergency preparedness program specialist.

### Career Path Notes

Courses from this program may transfer into Palm Beach
State's Bachelor of Applied Science program in Supervision and Management. For more information, visit www.palmbeachstate.edu/programs/Bachelor.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Emergency Management CCC

Emergency Management (6437)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/EmergencyMgmt

Program Description
This certificate program provides the student with a solid background in the basics for emergency management through coursework and practical experiences in the field. This certificate program provides students with knowledge to be able to coordinate disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies, hazardous materials spills) disasters or hostage situations. The program will provide the student with many national certifications from the Federal Emergency Management Administration (FEMA).

Admission Requirements
Students must:
Have a standard high school diploma or GED;
Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/admissions-applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Program can be completed in 12 months.

Location
The program is offered online.

For More Information
Martin Deloach, deloachm@palmbeachstate.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP1822</td>
<td>Introduction to Emergency Management and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>FFP1820</td>
<td>Basic Emergency Planning Concepts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1830</td>
<td>Hazards Analysis and Impacts</td>
<td>3</td>
</tr>
<tr>
<td>FFP1882</td>
<td>Emergency Operations Center (EOC) Operations and Design</td>
<td>3</td>
</tr>
<tr>
<td>FFP2842</td>
<td>Defending Communities, Bridging Disaster Preparedness, Recovery, Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>FFP2840</td>
<td>Emergency Response and Recovery Operations</td>
<td>3</td>
</tr>
<tr>
<td>FFP1841</td>
<td>Business Contingency Planning</td>
<td>3</td>
</tr>
<tr>
<td>EVR2266</td>
<td>Survey of Environmental Mapping/GIS/Remote Sensing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 24

For individualized course sequence [CLICK HERE](#)

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/gainfulemployment/](http://www.palmbeachstate.edu/areasofstudy/gainfulemployment/).

**Career Path Notes**
Students who complete the certificate may apply those credits towards an A.S. degree in Fire Science.

**Career Center**
[http://www.palmbeachstate.edu/career](http://www.palmbeachstate.edu/career)
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Emergency Medical Services AS**

**Emergency Medical Services (2449)**

**ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated April 23, 2015)**

**Type of Award**
AS - Associate in Science

**Program Website**
[www.palmbeachstate.edu/programs/EMS](http://www.palmbeachstate.edu/programs/EMS)

**Program Description**
This degree program is designed for the student who wishes to increase his/her opportunities in the EMS field. In addition to the EMT and Paramedic Certificates, students will complete general education courses and electives.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
High school diploma (or equivalent) and College Application submitted to Palm Beach State (www.palmbeachstate.edu/Admissions).

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered on the Lake Worth campus.

For More Information
James J. Smith, smithjj@PalmBeachState.edu, (561) 868-3360

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td></td>
</tr>
<tr>
<td>SYG2000</td>
<td>Introduction to Sociology</td>
<td>3</td>
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Technical Core Required Courses

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EMS1158C</td>
<td>Emergency Medical Technician *</td>
<td>11</td>
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<tr>
<td>EMS2620C</td>
<td>Paramedic 1</td>
<td>12</td>
</tr>
<tr>
<td>EMS2621C</td>
<td>Paramedic 2</td>
<td>12</td>
</tr>
<tr>
<td>EMS2622C</td>
<td>Paramedic 3</td>
<td>5</td>
</tr>
<tr>
<td>EMS2658</td>
<td>Paramedic Clinical 3</td>
<td>2</td>
</tr>
<tr>
<td>EMS2659</td>
<td>Paramedic Field Internship</td>
<td>1</td>
</tr>
<tr>
<td>EMS2664</td>
<td>Paramedic Clinical 1</td>
<td>4</td>
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<tr>
<td>EMS2665</td>
<td>Paramedic Clinical 2</td>
<td>6</td>
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Electives - 5 Credits Required

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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>EDF2005</td>
<td>Introduction to the Teaching Profession</td>
<td>3</td>
</tr>
<tr>
<td>EDP2002</td>
<td>Introduction to Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>HSC2531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>------------</td>
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</tr>
<tr>
<td>MNA2100</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MNA2303</td>
<td>Introduction to Public Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>MNA2345</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>POS1041</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course(s) from Area IV - Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any FFP (Fire Science) College Credit Course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SELECT 5 ELECTIVE CREDITS</td>
<td></td>
</tr>
</tbody>
</table>

Total Program Credits: 73

* Students holding current/valid Florida State EMT-Basic certificates may be able to obtain credit for these classes toward the EMS A.S. degree. See Palm Beach State EMT program manager for more information.

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Paramedics with an A.S. degree are in demand for educational and supervisory positions.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor). In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Emergency Medical Technician (EMT-B) ATD**

**Emergency Medical Technician (B217) LIMITED ACCESS**

**ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated April 23, 2015)**

**Type of Award**

ATD - Applied Technology Diploma

**Program Website**

[www.palmbeachstate.edu/programs/EMS](http://www.palmbeachstate.edu/programs/EMS)

**Program Description**

This applied technology diploma program is designed to prepare the student for the Florida State Board Examination for Emergency Medical Technician - Basic. EMT-Bs serve as a link in the chain of the health care team. It is recognized that the majority of pre-hospital emergency medical care will be provided by the EMT-Bs. This includes all skills necessary for the individual to provide emergency care at a basic life support level with an ambulance service or other emergency services agency.
Classroom study and clinical work equip the student with the skills in patient assessment, cardiopulmonary resuscitation (CPR), oxygen therapy, shock prevention, bandaging, splinting, spinal immobilization and vehicle extrication that are necessary for a career in out-of-hospital emergency medicine. This program is approved by the Florida Department of Health Bureau of Emergency Medical Services (Ch 401, FS, Ch. 64J-1, FAC) and follows the most current U.S. Department of Transportation National Standard Curriculum.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Must be at least 18 years of age on or before the start of the program;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
Complete a limited access EMT program application found at (www.palmbeachstate.edu/programs/ems/EMT).
Special admission requirements are associated with this program. For details, call the Limited Access Office at (561) 868-3045.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 11. This is a one semester program.

Location
The program is offered at the Lake Worth campus.

For More Information
James J. Smith, smithjj@PalmBeachState.edu, (561) 868-3360
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
<table>
<thead>
<tr>
<th>Credits</th>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>EMS1158C</td>
<td>Emergency Medical Technician</td>
</tr>
</tbody>
</table>

Total Program Credits: 11

For individualized course sequence CLICK HERE

Employment Opportunities
EMT-Bs work in hospitals and doctor's offices, drive ambulances, and also provide basic emergency care such as stabilizing patients, controlling bleeding and giving oxygen.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
This program is a prerequisite to the paramedic program. Students who want to move up in the field should start out in EMT-Basic.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Fire Apparatus Operator PSAV

Fire Apparatus Operator (5615)

ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)

THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS. (PBSC continues to offer Fire Apparatus Operator courses for certification by the Florida Bureau of Fire Services. Contact Fire Program Director for further details.)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Fire

Program Description
This program prepares the firefighter to assume responsibility as a fire apparatus operator. This program prepares the firefighter to understand the science of fluids at rest and in motion, and the physical relationships between water and the mechanisms for moving it to achieve desired fire flows. The program concentrates on numerical data and mathematical calculations. It also includes the study of the practices and procedures involved in the safe and effective operation of today’s fire apparatus. This is a hands-on program designed to train driver/operators to meet all pertinent requirements contained in NFPA 1002.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Two 48 hours courses.

Location
The program is offered at the Lake Worth campus, but may be held in house at area fire departments.

For More Information
Martin DeLoach, Director
deloachm@palmbeachstate.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
Credits: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FFP1301</td>
<td>Fire Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>FFP1302</td>
<td>Fire Apparatus and Equipment</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 6

For individualized course sequence CLICK HERE
Employment Opportunities
Existing firefighters can enhance their opportunities for advancement or employment by completing this program. Approximately 16 percent of all firefighters in Florida are fire apparatus operators or in the acting position on a regular basis.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Fire apparatus operator is usually the first promotional opportunity a firefighter has. It is the first rung of the promotional ladder.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Fire Inspector 1 CCC
Fire Inspector 1 (6623)
ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)
THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS. (PBSC continues to offer Fire Inspector courses for certification by the Florida Bureau of Fire Services. Contact Fire Program Director for further details.)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Fire

Program Description
This program allows the participant to challenge the state certification test for Fire Inspector I. This program is aimed at the individual who wishes to become state certified to inspect residential, commercial, educational and other structures. The program includes an understanding of fire inspection practices, fire protection systems, fire codes and standards, building construction and plan reviews.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Day program – three to four months; night program – six to seven months.

Location
The program is offered at the Lake Worth campus.
For More Information
Martin DeLoach, Director
deloachm@palmbeachstate.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP1505</td>
<td>Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>FFP1540</td>
<td>Private Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FFP2120</td>
<td>Building Construction Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FFP2510</td>
<td>Related Fire Codes and Standards</td>
<td>3</td>
</tr>
<tr>
<td>FFP2521</td>
<td>Blueprint Reading and Plan Examination</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 15

For individualized course sequence

Employment Opportunities
Students who complete this program are employable as a state fire inspector. Typically this skill set enhances a person’s existing job duties and responsibilities.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
This program is a prerequisite to becoming a certified fire inspector. All fire/rescue departments and many educational and commercial institutions utilize the services of fire inspectors.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Fire Instructor CCC

Fire Instructor (6621)

ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)

THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Fire

Program Description
This PSAV certification program prepares the student to design and utilize a lesson plan and present a class. It also allows the student to challenge the state test for certification as an Instructor I, and as an Instructor II if he/she has an A.S. degree or higher.
This curriculum is intended to facilitate the development of nationally applicable performance standards for uniformed fire service personnel. The program prepares the prospective instructor to design, present and develop a training curriculum.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
Be a working or volunteer firefighter.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Two 48 hours courses.

Location
The program is offered at the Lake Worth campus, but may be held in house at a fire rescue department.

For More Information
Martin DeLoach, Director
mailto:deloachm@palmbeachstate.edu (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
<table>
<thead>
<tr>
<th>Credits: 6</th>
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</thead>
<tbody>
<tr>
<td>FFP2740</td>
</tr>
<tr>
<td>FFP2741</td>
</tr>
</tbody>
</table>
Total Program Credits: 6

For individualized course sequence CLICK HERE

Employment Opportunities
Every fire department as well as other agencies that provide fire protection need personnel to be trained as fire instructors. Individuals who wish to be fire instructors must meet the criteria set forth by the State Fire Marshal's office which requires the firefighter to have at least six years fire service experience as well as successful completion of the classes that make up this PSAV certificate

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
This program is a prerequisite to becoming certified to teach credit courses for any institution of higher education. Most fire rescue departments require state certification for their training officers. Applicants for the state certification exam must also have at least six years experience in the fire service.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Fire Investigator 1 CCC

**Fire Investigator 1 (6624)**

**ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)**

**THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.**

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Fire](http://www.palmbeachstate.edu/programs/Fire)

**Program Description**

This program allows the participant to challenge the state certification test for Fire Investigator I. The program focuses on broad, transferable skills and stresses understanding and demonstration of fire chemistry and fire behavior, the determination of the point of origin and causes of fires, the conduct of crime and fire scene processing and investigation, significant court cases and precedents, and courtroom procedures.

**Program Learning Outcomes**

For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**

Have a standard high school diploma or GED; Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

Four 48-hour courses.

**Location**

The program is offered at the Lake Worth campus.

**For More Information**

Martin DeLoach, Director
deloachm@palmbeachstate.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FFP1540</td>
<td>Private Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FFP2111</td>
<td>Fire Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FFP2120</td>
<td>Building Construction Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FFP2610</td>
<td>Fire Investigation: Origin And Cause</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
Existing firefighters or other public safety personnel can enhance their opportunities for advancement or employment by completing this program.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
This training gives the fire safety inspector the necessary training to conduct fire investigations for their agency.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online:  http://online.onetcenter.org/

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**Fire Officer Supervisor (Officer 1) CCC**

**Fire Officer Supervisor (Officer 1) (6622)**

**ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)**

**Type of Award**
CCC - College Credit Certificate

**Program Website**
www.palmbeachstate.edu/programs/Fire

**Program Description**
This program academically prepares the firefighter to assume the responsibility as a first line fire officer, and to challenge the state certification exam.
This program is geared for the sitting and prospective company officer. It trains the firefighter to lead in-service company fire safety inspections, use proper strategies and tactics to fight fire, be an effective incident commander, and serve as a trainer, mentor and middle manager.

**Program Learning Outcomes**
For detailed information, visit  www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

**Admission Requirements**
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
Must be a working or volunteer firefighters.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
This program is 24 credits.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Martin DeLoach, Director
deloachm@palmbeachstate.edu, (561) 868-3834
To see when the course is offered, click the course number. To see a course description, click the course title.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP2120</td>
<td>Building Construction Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FFP2720</td>
<td>Company Officer &amp; Leadership</td>
<td>3</td>
</tr>
<tr>
<td>FFP2740</td>
<td>Fire Service Course Delivery</td>
<td>3</td>
</tr>
<tr>
<td>FFP2810</td>
<td>Firefighting Strategy and Tactics 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Existing firefighters can enhance their opportunity for advancement or employment by completing this program. Approximately 17 percent of all firefighters in Florida hold the rank of first line supervisor or are in the acting position on a regular basis.

### Gainful Employment

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

### Career Path Notes

Company officer is usually the second rung of the fire service career ladder. This certificate will demonstrate that the firefighter has properly prepared him/herself academically for the position.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Fire Science Technology AS

**Fire Science Technology (AS 2195)**

**ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)**

#### Type of Award

- AS - Associate in Science

#### Program Website

[www.palmbeachstate.edu/programs/Fire](http://www.palmbeachstate.edu/programs/Fire)

#### Program Description

This degree program is designed for the current firefighter who wishes to advance in various fire service areas. Course content includes tactics & strategies, fire prevention, fire investigation, company officer, and fire apparatus & equipment.

#### Program Learning Outcomes

For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

### Admission Requirements

- Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx. Other than the “Fire Inspector” classes which can be taken by civilian students, the technical proficiency needed for this program requires that the student be a certified firefighter or fire inspector before being accepted into any of the technical core or elective classes that make up this curriculum.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Martin DeLoach, Director
deloachm@palmbeachstate.edu  (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>POS1041</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
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<tr>
<td></td>
<td>Any course from Mathematics - Area III</td>
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<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Natural Sciences - Area IV, Tier 1 &amp; 2</td>
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Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FFP1505</td>
<td>Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>FFP1540</td>
<td>Private Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FFP2120</td>
<td>Building Construction Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FFP2612</td>
<td>Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FFP2720</td>
<td>Company Officer and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>FFP2206</td>
<td>Principles of Fire and Emergency Services Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>FFP2111</td>
<td>Fire Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>FFP2770</td>
<td>Legal and Ethical Issues for the Fire Service</td>
<td>3</td>
</tr>
<tr>
<td>FFP1301</td>
<td>Fire Hydraulics</td>
<td>3</td>
</tr>
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</table>
Electives - Choose 15 credits

<table>
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<tr>
<td>FFP2740</td>
<td>Fire Service Course Delivery</td>
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<tr>
<td>FFP1000</td>
<td>Introduction to Fire Science</td>
<td>(3)</td>
</tr>
<tr>
<td>FFP2810</td>
<td>Firefighting Strategy and Tactics 1</td>
<td>(3)</td>
</tr>
<tr>
<td>FFP2811</td>
<td>Firefighting Strategy and Tactics 2</td>
<td>(3)</td>
</tr>
<tr>
<td>FFP2741</td>
<td>Fire Service Course Design</td>
<td>(3)</td>
</tr>
<tr>
<td>FFP2541</td>
<td>Private Fire Protection Systems 2</td>
<td>(3)</td>
</tr>
<tr>
<td>FFP2510</td>
<td>Related Fire Codes and Standards</td>
<td>(3)</td>
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<tr>
<td>FFP2521</td>
<td>Blueprint Reading and Plan Examination</td>
<td>(3)</td>
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<tr>
<td>FFP2780</td>
<td>Fire Service Administration</td>
<td>(3)</td>
</tr>
<tr>
<td>FFP2706</td>
<td>Public Information Officer</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Total Program Credits: 60

For individualized course sequence CLICK HERE

Career Path Notes

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Firefighter PSAV

Firefighter (5043) LIMITED ACCESS

Type of Award

PSAV - Post Secondary Adult Vocational Certificate

Program Website

www.palmbeachstate.edu/programs/Fire

Program Description

For students seeking state certification as a firefighter, classes are offered on both daytime and nighttime schedules in the Fall and Spring terms of each academic year. The program follows the curriculum established by the Bureau of Fire Standards and Training of the Florida State Fire College in Ocala. The PSAV firefighter program is a two-part course.

Part I (Firefighter I) covers orientation; safety; fire behavior; building construction; protective clothing; SCBA; portable extinguishers; ropes and knots; building search and victim removal; forcible entry tools; construction and techniques; ground ladders; ventilation; water supply; coupling; loading and rolling hose; laying, carrying and advancing hose; water fire streams; Class A, C, D; vehicle and wildland fire control; sprinkler system fundamentals; salvage, overhaul and protecting evidence of fire cause; fire department communications; equipment and techniques; fire prevention and public fire education. The course also includes Awareness-Level Hazardous Materials Training.
Upon completion of the course and a written state certification examination, the student will receive a Certificate of Competency from the Bureau of Fire Standards and Training as a Firefighter I.

Part II (Firefighter II) prepares the student to meet the requirements to become a state certified firefighter. Subjects include implementing the incident management system; construction materials and building collapse; rescue and extrication tools; vehicle extrication and special rescue; hydrant flow and operability hose; tools and appliances; foam fire systems; ignitable liquid and gas fire control; fire detection; alarm and suppression systems; fire cause and origin; radio communications and incident reports pre-incident survey and wildlife firefighting - 5130 & 5190. Those students who successfully complete the program may participate in the state exam for certification as a Firefighter II. This exam encompasses both written and practical skills tests. Certification is required in the state of Florida for firefighters.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

www.palmbeachstate.edu/programs/Fire

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 10; English: 10; Mathematics: 10 or qualify for TABE exemption (www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).

Program Length
450 hours or approximately three months for the day program and six months for the night program.

Location
This program is offered at the Lake Worth campus.

For More Information
Fire Academy office, (561) 868-3900

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>FFP0010</td>
<td>Firefighter 1</td>
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<tr>
<td>FFP0020</td>
<td>Firefighter 2</td>
<td>222</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 450

For individualized course sequence CLICK HERE

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Successful completion of this Certificate Firefighter Program allows the student to take the state certification examination. The student will earn 3 college credits towards the A.S. degree in Fire Science.

Career Center
Homeland Security Specialist CCC

Homeland Security Specialist  (6439)

**ADDENDUM OCTOBER 30, 2015 (action based on curriculum minutes dated September 24, 2015)**

**THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.**

**Type of Award**
CCC - College Credit Certificate

**Program Website**
www.palmbeachstate.edu/programs/EmergencyMgmt

**Program Description**
This program prepares students to work in law enforcement, homeland security, private/industry security, and other criminal justice, legal or public service related fields. The program prepares students to work as criminal justice or homeland security practitioners/ supervisors/managers in law enforcement agencies and homeland security organizations and also provides supplemental training for persons previously or currently employed in these occupations. The program may also be beneficial to professionals seeking incentive benefits or career enhancement in the field.

**Admission Requirements**
Have a standard high school diploma or GED; Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
The program can be completed in two semesters.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Martin Deloach, deloachm@PalmBeachState.edu, (561) 868-3834

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FFP1822</td>
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<tr>
<td>DSC1242</td>
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Total Program Credits: 9
For individualized course sequence [CLICK HERE]

**Employment Opportunities**

Organizations that utilize emergency managers include (but are not limited to): fire departments, police departments, county, state and municipal governments, utility companies, federal agencies, large institutions and organizations, hospitals, etc.

**Career Path Notes**

Courses transfer to the AS in Criminal Justice or the AS in Emergency Management with a career ladder to Palm Beach State College Bachelor of Applied Science program in Supervision and Management.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Paramedic CCC**

**Paramedic** *(6450) LIMITED ACCESS*

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/EMS/Paramedic](http://www.palmbeachstate.edu/programs/EMS/Paramedic)

**Program Description**

This college credit certificate program is offered for the student who wishes to complete the core curriculum and be eligible for NREMT certification or certification by the State of Florida to practice as a paramedic. Paramedics are trained to provide advanced life support in medical and trauma related emergencies. The course content includes lecture, skills lab and hospital/fire rescue rotations as outlined in the core requirements of the Emergency Medical Services A.S. degree program.

**Program Accreditation**

The Paramedic Program is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation by the Committee on Accreditation for EMS Programs (CoAEMSP) 4101 W. Green Oaks Blvd. Suite 305-599 Arlington, Texas 76016, (817) 330-0080, and approved by the Florida Department of Health Bureau of Emergency Medical Services (Ch 401, FS, Ch. 64J-1, FAC). The training program follows the most current U.S. Department of Transportation National Standard Curriculum [FS 401.2701(1)(a) 5a].

**Admission Requirements**

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).
- Be a certified Florida EMT or eligible for the Florida EMT exam to apply and must score a 70 on the NFSI.
- Complete a limited access Paramedic program application found at [www.palmbeachstate.edu/programs/EMS/Paramedic](http://www.palmbeachstate.edu/programs/EMS/Paramedic).
- Special admission requirements are associated with this program. For details, call the Limited Access Office at (561) 868-3045.

**Completion Requirements**

- Courses must be completed with a score of 80 or better. Students must successfully complete BLS, ACLS, PHTLS, and PALS.

**Program Length**
This intensive three-semester program includes a clinical internship in area hospitals and on emergency response units where students care for patients in emergency settings. Day shift classes start in the Fall and in the Spring term; all night classes in the Summer term.

Location
The program is offered at the Lake Worth campus.

For More Information
James J. Smith, smithjj@PalmBeachState.edu, (561) 868-3360

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS2620C Paramedic 1</td>
<td>12</td>
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<tr>
<td>EMS2621C Paramedic 2</td>
<td>12</td>
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<tr>
<td>EMS2622C Paramedic 3</td>
<td>5</td>
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<tr>
<td>EMS2664 Paramedic Clinical 1</td>
<td>4</td>
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<tr>
<td>EMS2665 Paramedic Clinical 2</td>
<td>6</td>
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<tr>
<td>EMS2658 Paramedic Clinical 3</td>
<td>2</td>
</tr>
<tr>
<td>EMS2659 Paramedic Field Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Program Credits: 42

For individualized course sequence [CLICK HERE]

Employment Opportunities
Employment opportunities are limited in this field, and graduates have a 60 percent job placement rate.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Credits earned in the Paramedic program can be applied toward an A.S. degree in Emergency Medical Services. The student is encouraged to also complete Basic Firefighter training at Palm Beach State.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Public Safety Telecommunications PSAV

Public Safety Telecommunications PSAV (5455)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/CriminalJustice

Program Description
Course content includes standard telecommunication operating procedures for police, fire and emergency medical services. This course is the certification course for all Public Safety Telecommunicators.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

**Completion Requirements**
Student must pass the mid-term and final exam with a 70% or better and must have a final average of 70% to pass the course.

**Program Length**
232 hours of required course material as well as an additional 16 hours for state certification examination preparation.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Phil Berlingo, berlingop@palmbeachstate.edu (561) 868-3378

To see when the course is offered, click the course number. To see a course description, click the course title.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Clock Hours</th>
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</thead>
<tbody>
<tr>
<td>EMS0000</td>
<td>232</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 232

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
This course is required for employment at any Florida public safety telecommunication center.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**
Palm Beach State College offers advanced training education courses for individuals in the field of public safety telecommunications.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: [http://www.bls.gov/oco/](http://www.bls.gov/oco/)
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Biotechnology AS

Biotechnology (2158)

Type of Award

AS - Associate in Science

Program Website

www.palmbeachstate.edu/programs/Biotechnology

Program Description

This degree program is designed for students who will seek employment as biotechnology research technicians, biological technicians, cell culture technicians or biotechnology manufacturing technicians, or for persons wanting career advancement already employed in the field. Course content includes biology and chemistry concepts, algebraic and statistical analysis, basic microbiology concepts, biohazard and safety procedures, human anatomy and physiology, core biotechnical laboratory techniques and industry workplace experience.

Program Learning Outcomes

For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx
- Cumulative grade point average (GPA) must be at least 2.6 in all-previous college work attempted.
- Attend a Mandatory Information Session. The schedule for upcoming information sessions can be found on the Biotechnology webpage.

Completion Requirements

Students must successfully complete all courses listed in the catalog for this program with a grade of C or higher.

Program Length

The program can be finished in two years of full-time enrollment or three years part time.

Location

The program is offered at the Palm Beach Gardens campus.

For More Information

Dr. Becky Mercer, Director of Biotechnology Programs mercerb@PalmBeachState.edu, (561) 207-5059
Dr. Alexandra Gorgevska, Department Chair for Natural Science & Biotechnology gorgevs@aPalmBeachState.edu, (561) 207-5003

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits: 16</th>
</tr>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
</tr>
<tr>
<td>BSC1010</td>
<td>Principles of Biology 1</td>
</tr>
<tr>
<td>BSC1010L</td>
<td>Principles of Biology 1 Lab</td>
</tr>
</tbody>
</table>
### Required Courses

- **BSC2421**
  - Introduction to Biotechnology
  - Credits: 3

- **BSC2421L**
  - Introduction to Biotechnology Lab
  - Credits: 2

- **BSC1404C**
  - Introduction to Biotechnological Methods *
  - Credits: 5

- **BSC2420**
  - Biotechnology 1
  - Credits: 3

- **BSC2420L**
  - Biotechnology 1 Lab
  - Credits: 2

- **BSC2427**
  - Biotechnology 2, Molecular Biology, Cell & Immunobiology
  - Credits: 3

- **BSC2427L**
  - Biotechnology 2, Molecular Biology, Cell and Immunobiology Lab
  - Credits: 2

- **BSC2945C**
  - Biotechnology Internship
  - Credits: 2

- **BSC2416C**
  - Introduction to Tissue Culture Lab
  - Credits: 2

- **BSC2426C**
  - Introduction to Biotechnology Instrumentation Lab
  - Credits: 2

- **BSC2435**
  - Introduction to Bioinformatics
  - Credits: 1

- **CHM1045**
  - General Chemistry 1
  - Credits: 3

- **CHM1045L**
  - General Chemistry 1 Lab
  - Credits: 1

- **CHM1046**
  - General Chemistry 2
  - Credits: 3

- **CHM1046L**
  - General Chemistry 2 Lab
  - Credits: 1

- **CHM2210**
  - Organic Chemistry 1
  - Credits: 3

- **CHM2210L**
  - Organic Chemistry 1 Lab
  - Credits: 1

- **CHM2211**
  - Organic Chemistry 2
  - Credits: 3

- **CHM2211L**
  - Organic Chemistry 2 Lab
  - Credits: 1

- **MCB2010**
  - Microbiology
  - Credits: 3

- **MCB2010L**
  - Microbiology Lab
  - Credits: 1

- **STA2023**
  - Statistics
  - Credits: 3

**Total Program Credits: 61**

*A challenge exam is available for those students who qualify to take this course. Those who do not pass the exam will be advised to take BSC 2421 and BSC 2421L. See Program Director for details.*

### Employment Opportunities

*For individualized course sequence [CLICK HERE](#)*
The program prepares the student for employment in entry-level biotechnology positions. Students can work in the biotechnology industry, pharmaceutical manufacturing and related industries.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

**Career Center**

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/

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**Biotechnology CCC**

**Biotechnology** (6159)

**Type of Award**

CCC - College Credit Certificate

**Program Website**

www.palmbeachstate.edu/programs/Biotechnology

**Program Description**

The College Credit Certificate program has been designed for those students who are currently employed in the biotechnology industry or for those who would like to pursue a biotechnology career or have a bachelors degree in another academic discipline.

The Biotechnology College Credit Certificate provides the student with comprehensive knowledge, specific competencies and lab techniques that enhance current skill while establishing a foundation for a successful bioscience career.

This 19-credit certificate offers courses in biotechnology principles, tissue culture, instrumentation and includes an internship with local bioscience firms and institutions.

**Admission Requirements**

Have a standard high school diploma or GED;

Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**

Students must successfully complete all courses listed in the catalog for this program.

**Program Length**

The Biotechnology credit certificate can be completed in 18 months. The certificate includes nineteen credits in Biotechnology skills.

**Location**

The program is offered at the Palm Beach Gardens campus.

**For More Information**

Dr. Becky Mercer, Director of Biotechnology Programs  mercerb@PalmBeachState.edu , (561) 207-5059

Dr. Alexandra Gorgevska, Department Chair for Natural Science & Biotechnology  gorgevsa@PalmBeachState.edu , (561) 207-5003
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC2421</td>
<td>Introduction to Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BSC2421L</td>
<td>Introduction to Biotechnology Lab</td>
<td>2</td>
</tr>
<tr>
<td>BSC2420</td>
<td>Biotechnology 1</td>
<td>3</td>
</tr>
<tr>
<td>BSC2420L</td>
<td>Biotechnology 1 Lab</td>
<td>2</td>
</tr>
<tr>
<td>BSC2427</td>
<td>Biotechnology 2, Molecular Biology, Cell &amp; Immunobiology</td>
<td>3</td>
</tr>
<tr>
<td>BSC2427L</td>
<td>Biotechnology 2, Molecular Biology, Cell and Immunobiology Lab</td>
<td>2</td>
</tr>
<tr>
<td>BSC2945C</td>
<td>Biotechnology Internship</td>
<td>2</td>
</tr>
<tr>
<td>BSC2416C</td>
<td>Introduction to Tissue Culture Lab</td>
<td></td>
</tr>
<tr>
<td>BSC2426C</td>
<td>Introduction to Biotechnology Instrumentation Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Program Credits: 19

All students must have the corequisites of CHM1045/L for BSC2420/L and the corequisites of CHM1046/L for BSC2427/L or complete these courses during their enrollment in the certificate.

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Careers in Biotechnology include: Research Associate, Cell Culture Technician, Cloning Technician, Quality Control Technician, Bioinformaticist, Fermentation Specialist, Regulatory Affairs, Patent Law, Molecular Ecologist, Agriculture Biotechnologist, Protein Purification Specialist, Forensic Crime Lab Technician, Cell Biologist, Brewmaster, Business Development, Mass Spectroscopist.

**Gainful Employment**

Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**

Credits in this certificate program will transfer directly into the Associate in Arts (AA) or the Associate in Science (AS) degree program in Biotechnology.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Environmental Science Technology AS**

**Environmental Science Technology (2216)**

**Type of Award**

AS - Associate in Science

**Program Website**
Program Description
This degree program prepares students for rewarding and meaningful careers in which they can impart a lasting change on the future of Florida’s natural environment. Courses include a wide range of environmental focuses, providing students with a well founded education that prepares them for positions in environmental assessment, restoration, research and public education. Students receive quality, hands-on experience that apply toward many critical initiatives for Florida’s environment.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED; Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Jessica Miles, milesj@PalmBeachState.edu, (561) 207-5220

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>HSC2100</td>
<td>Health Concepts and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>GEA1000</td>
<td>Principles of Geography and Conservation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any course from Social Science - Area V</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
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Credits: 18

Required Courses

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<tr>
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<tbody>
<tr>
<td>BSC1010</td>
<td>Principles of Biology 1</td>
<td>3</td>
</tr>
<tr>
<td>BSC1010L</td>
<td>Principles of Biology 1 Lab</td>
<td>1</td>
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<tr>
<td>EVR1001</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHM1045</td>
<td>General Chemistry 1</td>
<td>3</td>
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</table>

Credits: 46
For the most current listing, go to the website | www.palmbeachstate.edu/Programs

AREAS OF STUDY

For the most current listing, go to the website | www.palmbeachstate.edu/Programs

CHM1045L General Chemistry 1 Lab 1
GLY2030C Environmental Geology 3
ORH2511 Introduction to Plants of South Florida Ecosystems 3
EVR2266 Survey of Environmental Mapping/GIS/Remote Sensing 3
EVR1007 Florida's Environmental History 3
EVR2940 Cooperative Work Experience-Environmental Science 3
EVS2193C Environmental Sampling Techniques 4
EVR2858 Environmental Law 3
EVS2601 Hazardous Materials and Environmental Air Quality 3
EVS2015 Writing for Science 3
EVS2020 Scientific Monitoring and Data Methods 3
EVS2870C Wildlife Ecology 4

Total Program Credits: 64

For individualized course sequence CLICK HERE

Employment Opportunities
The purposes for studying Environmental Science Technology are diverse. Positions range from working in ecological restoration, eco-tourism, and hazardous materials detection in the environment, to monitoring the quality, quantity and safety of surface and groundwater supplies, to public education and conservation. Upon completion of this program, students may seek employment as an environmental technician, or as a field technician with government agencies, engineering or environmental consulting firms.

Career Path Notes
Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Landscape and Horticultural Professional 1 CCC

Landscape and Horticultural Professional 1 (6220)

Type of Award
CCC - College Credit Certificate

Program Website
Program Description
This college credit certificate program provides marketable skills without the need for General Education. Environmental horticulture provides the knowledge and expertise driving the green industry in Palm Beach County. This certification program is oriented strongly toward outside agencies, principally the Florida Nursery, Growers and Landscape Association and the International Society of Arboriculture. Most of the Palm Beach State certifications can be used as steppingstones toward the FNGLA certifications of the same names.

Admission Requirements
Have a standard high school diploma or GED; Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx. Complete Landscape and Horticulture Specialist Certificate.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 18.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
George Rogers, Ph.D., Department Chair, rogersg@PalmBeachState.edu, (561) 207-5052
To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>3</td>
<td>SWS1102</td>
<td>Soils and Fertilizers</td>
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<tr>
<td>3</td>
<td>ORH2510</td>
<td>Ornamental Plant Identification 1</td>
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Required College Credit Certificate (CCC) Courses
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<thead>
<tr>
<th>Credits</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>Landscape and Horticulture Specialist (CCC 6219)</td>
</tr>
</tbody>
</table>

Total Program Credits: 18

For individualized course sequence

Employment Opportunities
Students may work in the green industry: golf courses, nurseries, landscape companies, lawn maintenance firms, tree care enterprises and garden centers. Many students are self-employed in landscaping.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Students who complete this certification may apply for the Landscape and Horticulture Professional II certification. All of the courses required for this certification can be applied to an A.S. degree in Landscape and Horticulture Management.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
Landscape and Horticultural Professional 2 CCC

Landscape and Horticultural Professional 2 (6221)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Horticulture

Program Description
This college credit certificate program provides marketable skills without the need for General Education. Environmental horticulture provides the knowledge and expertise driving the green industry in Palm Beach County. This certification program is oriented strongly toward outside agencies, principally the Florida Nursery, Growers and Landscape Association and the International Society of Arboriculture. Most of the Palm Beach State certifications can be used as steppingstones toward the FNGLA certifications of the same names.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at
Complete Landscape/Horticulture Professional I Certificate.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 30.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
George Rogers, Ph.D., Department Chair, rogersg@PalmBeachState.edu, (561) 207-5052

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>PLS2220</td>
<td>Plant Propagation</td>
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<tr>
<td>ORH1016</td>
<td>Environmental Issues in Horticulture</td>
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Required College Credit Certificate (CCC) Courses

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>Landscape and Horticulture Professional 1 (CCC 6220)</td>
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Electives - Choose 6 credits

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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSC1005</td>
<td>Concepts in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC1010</td>
<td>Principles of Biology 1</td>
<td>3</td>
</tr>
<tr>
<td>LDE2510</td>
<td>Computer-Aided Landscape Design</td>
<td>3</td>
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### Areas of Study

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ORH1005L</td>
<td>Professional Landscape Installation and Maintenance</td>
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</tr>
<tr>
<td>ORH1320</td>
<td>Introduction to Palms and Their Culture</td>
<td>3</td>
</tr>
<tr>
<td>ORH1512</td>
<td>Plant Selections for Landscape Situations</td>
<td>3</td>
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<td>ORH1840</td>
<td>Landscape Construction</td>
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<td>ORH2241</td>
<td>Arboriculture</td>
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<td>ORH2251</td>
<td>Florida Horticulture Professional Preparation</td>
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<tr>
<td>ORH2515</td>
<td>Plants of the South Florida Ecosystems - Grasses, Sedges, Rushes, and Grass-Like Native Plants</td>
<td>3</td>
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<tr>
<td>ORH2521</td>
<td>Horticultural Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>ORH2949C</td>
<td>Ornamental Horticulture Work Experience/Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 30

** Completed courses can only be used to meet one program requirement.

For individualized course sequence [CLICK HERE](#)

### Employment Opportunities

Students may work in the green industry: golf courses, nurseries, landscape companies, lawn maintenance firms, tree care enterprises, and garden centers. Many of our students are self-employed in landscaping.

### Gainful Employment

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

### Career Path Notes

All of the courses required for this certification can be applied to an A.S. in Landscape and Horticulture Management.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:
- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Landscape and Horticulture Management AS

#### Landscape and Horticulture Management (2191)

### Type of Award

AS - Associate in Science

### Program Website

[www.palmbeachstate.edu/programs/Horticulture](http://www.palmbeachstate.edu/programs/Horticulture)
Program Description
This degree program is designed to prepare the student for management and technical positions in the green industry. Course content provides broad and well-rounded training in such areas as turfgrass culture, pesticides, plant physiology, nursery management and landscape construction.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
Have a standard high school diploma or GED;  
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years part time.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
George Rogers, Ph.D., Department Chair, rogersg@PalmBeachState.edu, (561) 207-5052

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>BOT1010</td>
<td>General Botany</td>
<td>3</td>
</tr>
<tr>
<td>BOT1010L</td>
<td>General Botany Lab</td>
<td>1</td>
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<tr>
<td></td>
<td>Any course from Mathematics - Area III</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
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<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
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<td></td>
<td>Any course from Social Science - Area V</td>
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Credits: 19

Required Courses

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<td>GCO2230</td>
<td>Pumping and Irrigation Systems</td>
<td>3</td>
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<tr>
<td>PMA2213</td>
<td>Plant Pest Management</td>
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<tr>
<td>MAN2021</td>
<td>Principles of Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>MNA2345</td>
<td>Principles of Supervision</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or-</td>
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<tr>
<td>ENT1000</td>
<td>Fundamentals of Entrepreneurship</td>
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<td>BOT2000</td>
<td>Plant Physiology</td>
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Credits: 33
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<th>Course Title</th>
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<tbody>
<tr>
<td>ORH2510</td>
<td>Ornamental Plant Identification 1</td>
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<tr>
<td>HOS1010</td>
<td>Introduction to Horticulture</td>
<td>3</td>
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<tr>
<td>LDE2000</td>
<td>Introduction to Landscape Design</td>
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<tr>
<td>ORH1016</td>
<td>Environmental Issues in Horticulture</td>
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<tr>
<td>PLS2220</td>
<td>Plant Propagation</td>
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<tr>
<td>SWS1102</td>
<td>Soils and Fertilizers</td>
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<tr>
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<td>Introduction to Plants of South Florida Ecosystems</td>
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<td>ORH2515</td>
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<tr>
<td>ORH2521</td>
<td>Horticultural Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>LDE2510</td>
<td>Computer-Aided Landscape Design</td>
<td>3</td>
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<tr>
<td>ORH1512</td>
<td>Plant Selections for Landscape Situations</td>
<td>3</td>
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<td>ORH2949C</td>
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<tr>
<td>BSC1010</td>
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<tr>
<td>BSC1005</td>
<td>Concepts in Biology</td>
<td>3</td>
</tr>
<tr>
<td>ORH1005L</td>
<td>Professional Landscape Installation and Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>ORH1320</td>
<td>Introduction to Palms and Their Culture</td>
<td>3</td>
</tr>
<tr>
<td>ORH1840</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
<tr>
<td>ORH2251</td>
<td>Florida Horticulture Professional Preparation</td>
<td>3</td>
</tr>
<tr>
<td>ORH2241</td>
<td>Arboriculture</td>
<td>3</td>
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</tbody>
</table>

Total Program Credits: 64

* Completed courses can only be used to meet one program requirement.

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Students may work in at golf courses, nurseries, landscape companies, lawn maintenance firms, tree care enterprises or garden centers. Many students are self-employed in landscaping.

**Career Path Notes**

Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).
In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center

www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Landscape and Horticulture Specialist CCC

Landscape and Horticulture Specialist (6219)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/Horticulture

Program Description
This college credit certificate program provides marketable skills without the need for General Education. Environmental horticulture provides the knowledge and expertise driving the green industry in Palm Beach County. This certification program is oriented strongly toward outside agencies, principally the Florida Nursery, Growers and Landscape Association and the International Society of Arboriculture. Most of the Palm Beach State certifications can be used as steppingstones toward the FNGLA certifications of the same names.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 12.

Location
The program is offered at the Palm Beach Gardens campus and may be completed online.

For More Information
George Rogers, Ph.D., Department Chair, rogersg@PalmBeachState.edu, (561) 207-5052

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BOT2000</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HOS1010</td>
<td>Introduction to Horticulture</td>
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</tr>
<tr>
<td>LDE2000</td>
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Electives - Choose 3 credits

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<td>BSC1005</td>
<td>Concepts in Biology</td>
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<td>BSC1010</td>
<td>Principles of Biology 1</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<td>------------</td>
<td>------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>LDE2510</td>
<td>Computer-Aided Landscape Design</td>
<td>3</td>
</tr>
<tr>
<td>ORH1005L</td>
<td>Professional Landscape Installation and Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>ORH1320</td>
<td>Introduction to Palms and Their Culture</td>
<td>3</td>
</tr>
<tr>
<td>ORH1512</td>
<td>Plant Selections for Landscape Situations</td>
<td>3</td>
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<tr>
<td>ORH2241</td>
<td>Arboriculture</td>
<td>3</td>
</tr>
<tr>
<td>ORH1840</td>
<td>Landscape Construction</td>
<td>3</td>
</tr>
<tr>
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<td>Florida Horticulture Professional Preparation</td>
<td>3</td>
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<tr>
<td>ORH2515</td>
<td>Plants of the South Florida Ecosystems - Grasses, Sedges, Rushes, and Grass-Like Native Plants</td>
<td>3</td>
</tr>
<tr>
<td>ORH2521</td>
<td>Horticultural Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>ORH2949C</td>
<td>Ornamental Horticulture Work Experience/Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 12

* Completed course can only be used to meet one program requirement.

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Students may work in the green industry: golf courses, nurseries, landscape companies, lawn maintenance firms, tree care enterprises and garden centers. Many students are self-employed in landscaping.

**Gainful Employment**

Program length excludes this program from gainful employment reporting requirements.

**Career Path Notes**

Students who complete this certification may apply for the Landscape and Horticulture Professional I certificate. All of the courses required for this certification can be applied to an A.S. degree in Landscape and Horticulture Management.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
TRADE AND INDUSTRY

Aeronautical Science-Helicopter Concentration AS

Aeronautical Science Professional Pilot Helicopter Concentration (AS 2197H)

NOTE: THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.

ADDENDUM MAY 7, 2015 (Changes from FAA CFR 61 to 141)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Aeroscience

Program Description
This program is designed to train the student for a career as a professional pilot. Upon completion of the Helicopter degree concentration, the student will possess an FAA Commercial Rotorcraft, Helicopter Land license. The student may choose as electives, the Flight Instructor licenses.

Students enrolled in this program must comply strictly with the Federal Aviation Administration requirements for flight and ground instruction under 14 CFR 141. All flight time will be logged and certified by an FAA certified flight instructor. Each FAA license and/or rating requires passing an FAA knowledge test and FAA practical test. The courses taught at Palm Beach State will prepare the student for these tests; however, the FAA license or rating is not required to complete the courses. It is the students’ responsibility to schedule and successfully complete the FAA checkride on their own in order to meet the prerequisite of the next flight class.

In order to get college credits for FAA licenses and/or ratings already held, the student must be enrolled in this program and must have accumulated at least 16 hours of college credits from courses within this program. Please see the following Web page for more information: www.palmbeachstate.edu/prior-learning/Prof-Pilot-License-Credit-Equivalency

For a list of flight schools that are currently affiliated with Palm Beach State for flight training, and other information, refer to Aeronautical Science Advisory Guide located on the following website www.palmbeachstate.edu/programs/Aeroscience

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
To be admitted into this program the student must:

• Have a high standard high school diploma or GED;
• Complete an Application for Admission, located at: www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
• Attend a regularly scheduled Flight Training Orientation Session. At the session, the student must be prepared to present the following documents:
• Have a PantherCard (Palm Beach State student ID)
• Proof of US citizenship documents or Transportation Security Administration (TSA) approval. For non-US citizens, the TSA approval process could take as long as 120 days to complete. See the following website for more information: www.flightschoolcandidates.gov
• Have a 1st, 2nd, or 3rd class FAA medical from an Aviation Medical Examiner (AME) before beginning any flight training. See www.faa.gov/pilots/amelocator for a listing of all current AMEs

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.
Program Length
Total program credits: 64. Approximate program length: 18 months.

Location
The program is offered at the Lake Worth campus (ground school and aviation classes) and at local airports (flight classes).

For More Information
Judy Maxwell, maxwelja@PalmBeachState.edu, (561) 868-3474

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any MAC prefix course from Mathematics - Area III</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Social Science - Area V</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any PHY prefix course from Natural Science Area IV</td>
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Core Program Requirements

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<td>ASC1101</td>
<td>Aero-Navigation</td>
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<tr>
<td>ASC1210</td>
<td>Aero-Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ASC1310</td>
<td>Aero-Safety and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ASC1640</td>
<td>Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>ASC2550</td>
<td>Aerodynamics</td>
<td>3</td>
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<tr>
<td>ATF1602C</td>
<td>Flight Simulator</td>
<td>3</td>
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<tr>
<td>ATT1100</td>
<td>Private Pilot Ground School</td>
<td>3</td>
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<tr>
<td>ATT2120</td>
<td>Instrument Ground School</td>
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<td>ATT2110</td>
<td>Commercial Pilot Ground School</td>
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<td>ATT2131</td>
<td>Flight Instructor Ground School</td>
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Required Courses

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<td>Private Pilot Flight 1 - Helicopter - Ground</td>
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<tr>
<td>ATF1142 A</td>
<td>Private Pilot Flight 2 - Helicopter - Flight</td>
<td>2</td>
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<tr>
<td>ATF1342LA</td>
<td>Commercial Helicopter 1-Ground</td>
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<tr>
<td>ATF2340 A</td>
<td>Instrument Rating Flight 1 - Helicopter-Ground</td>
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</tr>
<tr>
<td>ATF2341LA</td>
<td>Instrument Rating Flight 2 - Helicopter-Flight</td>
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</table>
ATF2240LA Commercial Pilot Flight 2 - Helicopter Cross Country 1
ATF2241A Commercial Pilot Flight - Helicopter-Flight 2

Electives - 5 Credits Required
ATF2540LA Flight Instructor (Initial CFI) Flight - Helicopter * 2
ATF2541LA Flight Instructor Instrument (CFI-I) Flight - Helicopter 1
ATF2244A Commercial Pilot Night Vision Goggles Flight - Helicopter 1
ATF2242LA Commercial Pilot External Load Flight - Helicopter 1
ATF2243A Commercial Pilot Turbine Flight - Helicopter (1)
-or-
Any AA or AS course approved by the Department Chair

Total Program Credits: 64

*Students wishing to instruct in Robinson Helicopters must also take ATF2541L to meet the requirements of SFAR 73-2. Students should be advised by the Aeronautical Science Department Chair prior to registering for Professional Pilot Concentration electives.

Employment Opportunities
Students who successfully complete this program are qualified to fly as a professional pilot. However, most major airlines, charter companies and private aircraft owners require more experience. We suggest that the student of this program choose all FAA Flight Instructor courses as their electives. Once these licenses are successfully attained, the student will qualify for a job as a flight instructor in order to build the flight experience required for these major flying careers.

Career Path Notes
Palm Beach State currently has a Transfer Agreement with Embry-Riddle Aeronautical University which will allow the student who successfully completes this program to transfer the credits toward a Bachelor of Science in Professional Aeronautics and/or Technical Management.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Aeronautical Science-Operations Concentration AS
Aeronautical Science - Operations Concentration (AS 2172)

NOTE: THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.

Type of Award
AS - Associate in Science
Program Website
www.palmbeachstate.edu/programs/Aeroscience

Program Description
This program is designed to train the student for a career in aviation management. There are two options that the student can choose from: Operations or Maintenance.
The Maintenance Option is designed to allow the individual who currently holds an FAA Airframe and Powerplant license (A&P) to pursue a two-year degree that will provide management skills and knowledge for advancement within the aviation maintenance industry. Students pursuing the Maintenance Concentration must possess an A&P license prior to being admitted into this program.
The Operations Option is designed to prepare the student to become proficient in planning, organizing, directing and controlling an aviation-related business. This course of study includes the following topics: the organizational and human aspects of business management, application of the principles of business, economic resource management and decision making.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
To be admitted into this program the student must:
- Complete a college application;
- Have a high school diplomas or equivalent GED;
- For the Maintenance Management Concentration, possess an FAA A&P license.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 64. Approximate program length: two years.

Location
The program is offered at the Lake Worth campus.

For More Information
Judy Maxwell, maxwelja@PalmBeachState.edu, (561) 868-3474

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
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</tr>
<tr>
<td></td>
<td>Any MAC prefix course from</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics - Area III</td>
<td>3</td>
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<td>SPC1017</td>
<td>Fundamentals of Speech</td>
<td>3</td>
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<tr>
<td></td>
<td>Communication</td>
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<td>PHY1001</td>
<td>Applied Physics</td>
<td>3</td>
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<td></td>
<td>Area II</td>
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<td>Area V</td>
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Required Courses

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<tbody>
<tr>
<td>ACG2022</td>
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<tr>
<td>ASC1210</td>
<td>Aero-Meteorology</td>
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### AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ASC1310</td>
<td>Aero-Safety and Regulations</td>
<td>2</td>
</tr>
<tr>
<td>ATT1100</td>
<td>Private Pilot Ground School</td>
<td>3</td>
</tr>
<tr>
<td>MAR2011</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUL2241</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications</td>
<td>3</td>
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</table>

#### Maintenance Operations Courses

- Choose one of the following options:
  - Maintenance Operations

- AMT1933 | Airframe and Power Plant Certification | 24 Credits

- OR -

- Flight Operations Courses

- Flight Operations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECO2013</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO2023</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEB1011</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MAN2021</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MNA2100</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>GEB2214</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>POS1001</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>ENT1000</td>
<td>Fundamentals of Entrepreneurship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 64

For individualized course sequence CLICK HERE

### Career Path Notes

Palm Beach State currently has a Transfer Agreement with Embry-Riddle Aeronautical University which will allow the student who successfully completes this program to transfer the credits to ERAU toward a Bachelor of Science in Professional Aeronautics, Technical Management and/or Aviation Maintenance Management.

### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Aeronautical Science-Professional Pilot Concentration AS

**Aeronautical Science Professional Pilot Airplane Concentration (AS 2197A)**

**NOTE: THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.**

**ADDENDUM MAY 7, 2015 (Changes from FAA CFR 61 to 141)**
Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Aeroscience

Program Description
This program is designed to train the student for a career as a professional pilot. Upon completion of the Airplane degree concentration, the student will possess an FAA Commercial Airplane Single Engine Land license. The student may choose as electives, the Flight Instructor licenses.

Students enrolled in this program must comply strictly with the Federal Aviation Administration requirements for flight and ground instruction under 14 CFR 141. All flight time will be logged and certified by an FAA certified flight instructor. Each FAA license and/or rating requires passing an FAA knowledge test and FAA practical test. The courses taught at Palm Beach State will prepare the student for these tests; however, the FAA license or rating is not required to complete the courses. It is the students’ responsibility to schedule and successfully complete the FAA checkride on their own in order to meet the prerequisite of the next flight class.

In order to get college credits for FAA licenses and/or ratings already held, the student must be enrolled in this program and must have accumulated at least 16 hours of college credits from courses within this program. For more information: www.palmbeachstate.edu/prior-learning/Prof-Pilot-License-Credit-Equivalency.

For a list of flight schools that are currently affiliated with Palm Beach State for flight training, and other information, refer to the Aeronautical Science Advisory Guide located on the following website: www.palmbeachstate.edu/programs/Aeroscience.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
To be admitted into this program the student must:

• Have a high standard high school diploma or GED;

• Complete an Application for Admission, located at: (www.palmbeachstate.edu/admissions/Admissions-Applications.aspx)

• Attend a regularly scheduled Flight Training Orientation Session. At the session, the student must be prepared to present the following documents:

• Have a PantherCard (Palm Beach State student ID)

• Proof of US citizenship documents or Transportation Security Administration (TSA) approval. For non-US citizens, the TSA approval process could take as long as 120 days to complete. See the following website for more information: www.flightschoolcandidates.gov

• Have a 1st, 2nd, or 3rd class FAA medical from an Aviation Medical Examiner (AME) before beginning any flight training. See www.faa.gov/pilots/amelocator for a listing of all current AMEs

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program credits: 64. Approximate program length: 18 months.

Location
The program is offered at the Lake Worth campus (ground school and aviation classes) and at local airports (flight classes).

For More Information
Judy Maxwell, maxwelja@PalmBeachState.edu, (561) 868-3474

To see when the course is offered, click the course number. To see a course description, click the course title.

### General Education Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any MAC prefix course from Mathematics - Area III</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Social Science - Area V</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any PHY prefix course from Natural Science Area IV</td>
<td>3</td>
</tr>
</tbody>
</table>

### Core Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC1101</td>
<td>Aero-Navigation</td>
<td>3</td>
</tr>
<tr>
<td>ASC1210</td>
<td>Aero-Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ASC1310</td>
<td>Aero-Safety and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ASC1640</td>
<td>Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>ASC2550</td>
<td>Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATF1602C</td>
<td>Flight Simulator</td>
<td>3</td>
</tr>
<tr>
<td>ATT1100</td>
<td>Private Pilot Ground School</td>
<td>3</td>
</tr>
<tr>
<td>ATT2120</td>
<td>Instrument Ground School</td>
<td>3</td>
</tr>
<tr>
<td>ATT2110</td>
<td>Commercial Pilot Ground School</td>
<td>3</td>
</tr>
<tr>
<td>ATT2131</td>
<td>Flight Instructor Ground School</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATF1111 A</td>
<td>Private Pilot Flight 1 - Airplane-Ground</td>
<td>2</td>
</tr>
<tr>
<td>ATF1112 A</td>
<td>Private Pilot Flight 2 - Airplane-Flight</td>
<td>2</td>
</tr>
<tr>
<td>ATF1150LV</td>
<td>Commercial Pilot Flight 1-Airplane-Ground</td>
<td>1</td>
</tr>
<tr>
<td>ATF2300 A</td>
<td>Instrument Rating Flight 1 - Airplane-Ground</td>
<td>2</td>
</tr>
<tr>
<td>ATF2302LA</td>
<td>Instrument Rating Flight 2 - Airplane-Flight</td>
<td>1</td>
</tr>
<tr>
<td>ATF2250LA</td>
<td>Commercial Pilot Flight 2-Airplane-Cross Country</td>
<td>1</td>
</tr>
<tr>
<td>ATF2204CA</td>
<td>Commercial Pilot Flight 3 - Airplane</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives - 5 Credits Required
ATF2500LA  Flight Instructor (Initial CFI) Flight - Airplane  2
ATF2530LA  Flight Instructor Instrument (CFI-I) Flight - Airplane  1
ATF2245CA  Commercial Pilot Flight 1 Additional Rating - Helicopter  2
or-
ATF2510LA  Flight Instructor Multi-Engine (MEI) Flight - Airplane  (1)

Total Program Credit: 64
*Students should be advised by the Aeronautical Science Department Chair prior to registering for Professional Pilot Concentration electives.

Employment Opportunities
Students who successfully complete this program are qualified to fly as a professional pilot. However, most major airlines, charter companies and private aircraft owners require more experience. We suggest that the student of this program choose all Flight Instructor courses as electives. Once these licenses are successfully attained, the student will qualify for a job as a Flight Instructor in order to build the flight experience required for these major flying careers.

Career Path Notes
Palm Beach State currently has a Transfer Agreement with Embry-Riddle Aeronautical University which will allow the student who successfully completes this program to transfer the credits toward a Bachelor of Science in Professional Aeronautics and/or Technical Management.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Alternative Energy Engineering Technology CCC
Alternative Energy Engineering Technology (CCC 6272)

Type of Award
CCC - College Credit Certificate

Program Website
www.palmbeachstate.edu/programs/ElectricalPowerTech

Program Description
The Alternative Energy Engineering Technology certificate prepares students for careers in the growing "green" alternative energy industries. This program offers a sequence of courses that provides coherent and rigorous content and relevant technical knowledge and skills needed to prepare for further education and careers in the growing alternative energy career cluster; and includes competency-based applied learning that contributes to the general employability skills, technical skills, and knowledge of all aspects of alternative energy careers.

Admission Requirements
Have a standard high school diploma or GED;
Complete an Application for Admission, located at
Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
This program can be completed in one year full time or 1-1/2 years part time.

Location
This program is offered at the Palm Beach Gardens campus.

For More Information
Oleg Andric, Associate Professor, andrico@palmbeachstate.edu, (561) 207-5414
Brenda Lesser, Administrative Assistant, (561) 207-5055

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ETP1200</td>
<td>Power Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>ETP1511C</td>
<td>Introduction to Bio Fuels</td>
<td>3</td>
</tr>
<tr>
<td>ETP1530C</td>
<td>Introduction to Wind Energy</td>
<td>3</td>
</tr>
<tr>
<td>ETP1402</td>
<td>Introduction to Solar Energy</td>
<td>3</td>
</tr>
<tr>
<td>ETI1701</td>
<td>Environmental Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>EVR2266</td>
<td>Survey of Environmental Mapping/GIS/Remote Sensing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 18

For individualized course sequence

Employment Opportunities
Upon completion of this program, you may seek employment in an entry-level position in alternative energy industries: bio-fuels, wind industry or solar industry. This program will provide supplemental education to technicians working in the electrical power industry or prepare students for employment in the growing alternative energy industries.

Gainful Employment
Program length excludes this program from gainful employment reporting requirements.

Career Path Notes
Courses from the program transfer directly into Palm Beach State's Electrical Power Technology AS degree program. For more information, see www.palmbeachstate.edu/programs/ElectricalPowerTech. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a two or four year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/
Apprenticeship PSAV

Apprenticeship Programs (appren)

Program Website
www.palmbeachstate.edu/programs/Apprenticeships

Program Description
These PSAV programs are a combination of on-the-job training and related classroom instruction offered by Palm Beach State for a private sector sponsor that is registered with the apprenticeship registration agency (Florida Department of Education).
The student works during the day and attends classes two nights a week during the academic year, learning both the practical and theoretical aspects of a highly skilled occupation. Classes are held at various locations in central Palm Beach County.

Admission Requirements
Apprentices are enrolled at Palm Beach State in PSAV career certificate programs. The prospective student applies directly to the apprenticeship organization. Full-time employment with a participating sponsor is required of apprenticeship students.
Some of the Apprenticeship programs require a high school diploma or GED.

Completion Requirements
Successfully complete all required courses.

Program Length
Programs require from four to five years to complete.

Location
Programs are offered at the Lake Worth campus and at various off-site locations.

For More Information
Kent Hartwig, hartwigk@palmbeachstate.edu, (561) 868-3541

For individualized course sequence CLICK HERE

Employment Opportunities
Apprenticeships are available in:

**Electrical Apprentice (5170)**
Florida Electrical Apprenticeship
4 Year Program
Pamela Anderson
561-697-4893

**Electrical Apprentice (5257)**
JATC/Union
5 Year Program
John Simmons
561-968-4400 ext. 411

**HVAC Tech Apprentice (5266)**
Florida Air Conditioning Apprenticeship
4 Year Program
Steve Sparks
561-262-7523

**Plumbing Apprentice (5174)**
Florida Quality Plumbing Apprenticeship
4 Year Program
Pamela Anderson
Career Path Notes
The successful completer is awarded an apprenticeship completion certificate, which confirms eligibility nationally for industry recognition of journeyperson status.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Automotive Service Technology 1 PSAV

Automotive Service Technology 1 (5463)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/AutoService

Program Description
This program is designed to prepare students for employment in a variety of occupations and careers found in the automotive service and repair industry. A combination of technical theory and practical hands-on instruction will provide students with the “real-work skills” required for entry level employment in this high wage field.

Coursework for the Automotive Service Technology 1 program prepares students for the Automotive Technician ASE (National Automotive Service Excellence ) certification exams in Engine Repair (A1), Steering and Suspension (A4), Brakes (A5), and Electrical/Electronic Systems (A6). For more information please refer to www.ASE.com.

Program coursework content also covers:
• Shop Organization
• Environmental and safety practices
• Proper use of tools and equipment
• Applied math and science
• Employability skills
• Maintenance operations and shop facilities
• Entrepreneurship
• Proper and safe use of tools and diagnostic equipment.

The Automotive Service Technology program is certified as a Master Training Program by the National Automotive Technicians Education Foundation (NATEF) meeting national training standards in Automotive Service Excellence areas of certification: www.NATEF.org.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
1. No high school diploma or GED is required.
3. Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx.
4. Send request for official high school transcripts, GED, or validated foreign equivalent to the Admissions Office.
5. Attend a program informational session or meet with the program advisor.
6. Successfully completing the Automotive Service Technology 1 program is required for entry into the Automotive Service Technology 2 program.

Completion Requirements
1. Pass the Test of Adult Basic Education (TABE) at the 10th level for mathematics and 9th level for language and reading, or qualify for TABE exemption.
2. Successfully complete all of the courses in the program.
3. All financial responsibilities must be satisfied.

**Program Length**

The Automotive Service Technology 1 program is 1,050 hours long. The full-time (day) program can be completed in approximately one (1) year. The part-time program, offered in the evenings, is approximately 17 months long.

**Location**

The program is offered at the Lake Worth campus.

**For More Information**

Program Director:
Eligio Marquez Veray, marqueze@palmbeachstate.edu, (561) 868-3542

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AER0006</td>
<td>Introduction to Automotive Services</td>
<td>150</td>
</tr>
<tr>
<td>AER0033</td>
<td>Applied Academics for Automotive Technicians</td>
<td>75</td>
</tr>
<tr>
<td>AER0080</td>
<td>Workplace Skills for Automotive Technicians</td>
<td>(75)</td>
</tr>
<tr>
<td>AER0940</td>
<td>Automotive Services Field Work Experience</td>
<td>75</td>
</tr>
<tr>
<td>AER0199</td>
<td>Automotive Engine Repair</td>
<td>150</td>
</tr>
<tr>
<td>AER0499</td>
<td>Automotive Steering And Suspension</td>
<td>150</td>
</tr>
<tr>
<td>AER0599</td>
<td>Automotive Brake Systems</td>
<td>150</td>
</tr>
<tr>
<td>AER0691</td>
<td>Automotive Electrical and Electronic Systems 1</td>
<td>150</td>
</tr>
<tr>
<td>AER0692</td>
<td>Automotive Electrical and Electronic Systems 2</td>
<td>150</td>
</tr>
</tbody>
</table>

To see when the course is offered, click the course number. To see a course description, click the course title.
Total Program Clock Hours: 1,050

**Employment Opportunities**

Upon completion of this program, students may seek employment as entry-level automotive technicians in dealerships, independent repair shops, or fleet maintenance facilities. Students may choose to enter jobs as technicians, service advisors, parts specialists, or entrepreneurs.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Upon completion of the Automotive Service Technology 1 program, and meeting eligibility requirements, students will be able to enroll in the advanced automotive program, Automotive Service Technology 2. Once both Automotive PSAV programs are completed successfully, the student will be able to apply for prior learning credit and earn 24 college credits toward an A.S. degree in Industrial Management Technology. For further information on the A.S. degree, please refer to program website: [www.palmbeachstate.edu/programs/IndustrialMgmt](http://www.palmbeachstate.edu/programs/IndustrialMgmt).

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:

- O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Automotive Service Technology 2 PSAV**

**Automotive Service Technology 2 (5458)**

**Type of Award**

PSAV - Post Secondary Adult Vocational Certificate

**Program Website**

[www.palmbeachstate.edu/programs/AutoService](http://www.palmbeachstate.edu/programs/AutoService)

**Program Description**

This is an advanced program is designed to prepare students for employment in a variety of occupations and careers found in the automotive service and repair industry. A combination of technical theory and practical hands-on instruction will provide students with the “real-work skills” required for entry level employment in this high wage field.

Coursework for the Automotive Service Technology 2 program prepares students for the Automotive Technician ASE (National Automotive Service Excellence) certification exams in Automatic Transmission/Transaxle (A2), Manual Drive Train and Axles (A3), Heating and Air Conditioning (A7), and Engine Performance (A8). For more information please refer to [www.ASE.com](http://www.ASE.com).

Program coursework content also covers:

- Shop Organization
- Environmental and safety practices
- Proper use of tools and equipment
- Applied math and science
- Employability skills
- Maintenance operations and shop facilities
- Entrepreneurship
- Proper and safe use of tools and diagnostic equipment.
The Automotive Service Technology program is accredited as a Master Training Program by the National Automotive Technicians Education Foundation (NATEF) meeting national training standards in Automotive Service Excellence areas of certification: www.NATEF.org.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
1. Successfully complete the Automotive Service Technology 1 Program.
3. Send request for official high school transcripts, GED, or validated foreign equivalent to the Admissions Office.
4. Attend a program informational session or meet with the program advisor.

Completion Requirements
1. Successfully complete all of the courses in the program.
2. All financial responsibilities must be satisfied.

Program Length
The Automotive Service Technology 2 Program is 750 hours long. The full-time (days) program can be completed in approximately six months. The part-time program, offered in the evenings, is approximately 12 months long.

Location
The program is offered at the Lake Worth campus.

For More Information
Program Director:
Eligio Marquez Veray, marqueze@palmbeachstate.edu, (561) 868-3542

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Clock Hours: 750</th>
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</thead>
<tbody>
<tr>
<td>Group D Automatic Transmission and Transaxle Technician</td>
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<tr>
<td>AER0299 Automotive Automatic Transmissions and Transaxles 150</td>
<td></td>
</tr>
<tr>
<td>Group E Manual Transmission and Transaxle Technician</td>
<td></td>
</tr>
<tr>
<td>AER0399 Automotive Manual Transmissions and Transaxles 150</td>
<td></td>
</tr>
<tr>
<td>Group I Automotive Heating and Air-Conditioning Technician</td>
<td></td>
</tr>
<tr>
<td>AER0759 Automotive Heating And Air Conditioning 150</td>
<td></td>
</tr>
<tr>
<td>Group J Automotive Engine Performance Technician</td>
<td></td>
</tr>
<tr>
<td>AER0891 Automotive Engine Performance 1 150</td>
<td></td>
</tr>
<tr>
<td>AER0892 Automotive Engine Performance 2 150</td>
<td></td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 750

For individualized course sequence CLICK HERE
Employment Opportunities
Upon completion of this program, students, may seek employment as entry-level automotive technicians in dealerships, independent repair shops, or fleet maintenance facilities. Students may choose to enter jobs as technicians, service advisors, parts specialists, or entrepreneurs.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Upon completion of the Automotive Service Technology 1 program, and meeting eligibility requirements, students will be able to enroll in the advanced automotive program, Automotive Service Technology 2. Once both Automotive PSAV programs are completed successfully, the student will be able to apply for prior learning credit and earn 24 college credits toward an A.S. degree in Industrial Management Technology.

Commercial Pilot-Airplane CCC
Commercial Pilot Airplane Concentration (6164A)
NOTE: THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.
ADDENDUM MAY 7, 2015 (Change from FAA CFR 61 to 141)
Type of Award
CCC - College Credit Certificate
Program Website
www.palmbeachstate.edu/programs/Aeroscience
Program Description
This program is designed to train the student for a career as a professional pilot. Upon completion of this program, the student will possess an FAA Commercial Airplane Single and Multi Engine Land license. As of May 2015, Veteran's Administration education benefits are not authorized for this program. Students enrolled in this program must comply strictly with the Federal Aviation Administration requirements for flight and ground instruction under 14 CFR 141. All flight time must be logged and certified by an FAA certified flight instructor. Each FAA license and/or rating requires passing an FAA knowledge test and FAA practical test. The courses taught at Palm Beach State will prepare the student for these tests; however, the FAA license or rating is not required to complete the courses. It is the students' responsibility to schedule and successfully complete the FAA checkride on their own in order to meet the prerequisite of the next class.
In order to get college credits for FAA licenses and/or ratings already held, the student must be enrolled in this program and must have accumulated at least 16 hours of college credits from courses within this program. Please see the following Web page for more information: www.palmbeachstate.edu/prior-learning/Prof-Pilot-License-Credit-Equivalency.
For a list of flight schools that are currently affiliated with Palm Beach State for flight training, please go to www.palmbeachstate.edu/programs/Aeroscience
Admission Requirements
To be admitted into this program, the student must:
Have a standard high school diploma or GED; Complete an online Application for Admission, located at (www.palmbeachstate.edu/admissions/Admissions-Applications.aspx). Attend a regularly scheduled flight training orientation session. At the session the student must be prepared to present the following documents: Have a Panthercard (Palm Beach State student ID) Proof of citizenship documents or Transportation Security Administration (TSA) approval prior to beginning any flight training. For non-US citizens, the TSA approval process could take as long as two months to complete. For more information see the following website, www.flightschoolcandidates.gov Have a 1st, 2nd, or 3rd class FAA medical from an Aviation Medical Examiner (AME) before beginning any flight training. The FAA medical certificate must be presented to the aviation program manager before flight training can be initiated. All current AMEs can be found at http://www.faa.gov/pilots/amelocator.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
This program can be finished in two major semesters.

Location
This program is offered at the Lake Worth campus and local airports.

For More Information
Judy Maxwell, maxwelja@PalmBeachState.edu, (561) 868-3474

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tr>
<td>ATF1111 A</td>
<td>Private Pilot Flight 1 - Airplane-Ground</td>
<td>2</td>
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<tr>
<td>ATF1112 A</td>
<td>Private Pilot Flight 2 - Airplane-Flight</td>
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</tr>
<tr>
<td>ATF1150LV</td>
<td>Commercial Pilot Flight 1-Ground</td>
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<td>Instrument Rating Flight 1 - Airplane-Ground</td>
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<tr>
<td>ATF2302LA</td>
<td>Instrument Rating Flight 2 - Airplane-Flight</td>
<td>1</td>
</tr>
<tr>
<td>ATF2250LA</td>
<td>Commercial Pilot Flight 2-Cross Country</td>
<td>1</td>
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<tr>
<td>ATF2204CA</td>
<td>Commercial Pilot Flight - Airplane-Flight</td>
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Electives

(1 Credit Required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tr>
<td>ATT2131</td>
<td>Flight Instructor Ground School</td>
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<tr>
<td>ATF2500LA</td>
<td>Flight Instructor (Initial CFI) Flight - Airplane</td>
<td>2</td>
</tr>
<tr>
<td>ASC1101</td>
<td>Aero-Navigation</td>
<td>3</td>
</tr>
<tr>
<td>ASC1210</td>
<td>Aero-Meteorology</td>
<td>3</td>
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294 AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ASC1310</td>
<td>Aero-Safety and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ASC1640</td>
<td>Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>ASC2550</td>
<td>Aerodynamics</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Certificate Core Requirements</strong></td>
<td><strong>Credits: 12</strong></td>
</tr>
<tr>
<td>ATF1602C</td>
<td>Flight Simulator</td>
<td>3</td>
</tr>
<tr>
<td>ATT1100</td>
<td>Private Pilot Ground School</td>
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<tr>
<td>ATT2120</td>
<td>Instrument Ground School</td>
<td>3</td>
</tr>
<tr>
<td>ATT2110</td>
<td>Commercial Pilot Ground School</td>
<td>3</td>
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</tbody>
</table>

Total Program Credits: 24

**Employment Opportunities**

Students that successfully complete this program are qualified to fly as a professional pilot. However, most major airlines, charter companies and private aircraft owners require more experience. Graduates of this program should continue to get the Associate of Science Degree that will include all FAA Flight Instructor licenses. Once these licenses are successfully attained, then the student can build flight experience required for these major flying careers.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Palm Beach State currently has Transfer Agreement with Embry-Riddle Aeronautical University which will allow the student who successfully completes the A.S. degree in Aeronautical Science to transfer the credits toward a Bachelor of Science in Professional Aeronautical and Technical Management.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Commercial Pilot-Helicopter CCC**

Commercial Pilot Helicopter Concentration (6164H)

**NOTE: THIS PROGRAM IS SUSPENDED AND NO LONGER ACCEPTING NEW STUDENTS.**

ADDENDUM MAY 7, 2015 (Changes from FAA CFR 61 to 141)

**Type of Award**

CCC - College Credit Certificate

**Program Website**

[www.palmbeachstate.edu/programs/Aeroscience](http://www.palmbeachstate.edu/programs/Aeroscience)

**Program Description**
This program is designed to train the student for a career as a professional pilot. Upon completion of this program, the student will possess an FAA Commercial Rotorcraft Helicopter Land license. As of May, 2015, Veteran’s Administration education benefits are not authorized for this program.

Students enrolled in this program must comply strictly with the Federal Aviation Administration requirements for flight and ground instruction under 14 CFR 141. All flight time must be logged and certified by an FAA certified flight instructor. Each FAA license and/or rating requires passing an FAA knowledge test and FAA practical test. The courses taught at Palm Beach State will prepare the student for these tests; however, the FAA license or rating is not required to complete the courses. It is the students’ responsibility to schedule and successfully complete the FAA checkride on their own in order to meet the prerequisite of the next class.

In order to get college credits for FAA licenses and/or ratings already held, the student must be enrolled in this program and must have accumulated at least 16 hours of college credits from courses within this program. Please see the following Web page for more information: www.palmbeachstate.edu/prior-learning/Prof-Pilot-License-Credit-Equivalency

Admission Requirements
To be admitted into this program, the student must:

• Have a standard high school diploma or GED;

• Complete an online Application for Admission, located at (www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

• Attend a regularly scheduled flight training orientation session. At the session the student must be prepared to present the following documents:

• Have a panthercard (Palm Beach State student ID)

• Proof of citizenship documents or Transportation Security Administration (TSA) approval prior to beginning any flight training. For non-US citizens, the TSA approval process could take as long as two months to complete. For more information see the following website, www.flightschoolcandidates.gov

• Have a 1st, 2nd, or 3rd class FAA medical from an Aviation Medical Examiner (AME) before beginning any flight training. The FAA medical certificate must be presented to the aviation program manager before flight training can be initiated. All current AMEs can be found at http://www.faa.gov/pilots/amelocator.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
This program can be finished in two major semesters.

Location
This program is offered at the Lake Worth campus and local airports.

For More Information
Judy Maxwell, maxwelja@PalmBeachState.edu, (561) 868-3474

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>ATF1140 A</td>
<td>Private Pilot Flight 1 - Helicopter-Ground</td>
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<tr>
<td>ATF1142 A</td>
<td>Private Pilot Flight 2 - Helicopter-Flight</td>
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### AREAS OF STUDY

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<tr>
<td>ATF1342LA</td>
<td>Commercial Pilot Flight 1 - Helicopter-Ground</td>
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<td>ATF2340 A</td>
<td>Instrument Rating Flight 1 - Helicopter-Ground</td>
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<td>ATF2341LA</td>
<td>Instrument Rating Flight 2 - Helicopter-Flight</td>
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<tr>
<td>ATF2240LA</td>
<td>Commercial Pilot Flight 2 - Helicopter-Cross Country</td>
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<tr>
<td>ATF2241A</td>
<td>Commercial Pilot Flight 3 - Helicopter</td>
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**Electives**

(1 Credit Required)

- **Elective**
  - Credit: 1

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ATT2131</td>
<td>Flight Instructor Ground School</td>
<td>3</td>
</tr>
<tr>
<td>ATF2540LA</td>
<td>Flight Instructor (Initial CFI) Flight - Helicopter *</td>
<td>2</td>
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<tr>
<td>ATF2244LA</td>
<td>Commercial Pilot Night Vision Goggles Flight - Helicopter</td>
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</tr>
<tr>
<td>ATF2242LA</td>
<td>Commercial Pilot External Load Flight - Helicopter</td>
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<tr>
<td>ATF2243A</td>
<td>Commercial Pilot Turbine Flight - Helicopter</td>
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</tr>
<tr>
<td>ASC1101</td>
<td>Aero-Navigation</td>
<td>3</td>
</tr>
<tr>
<td>ASC1210</td>
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<tr>
<td>ASC2550</td>
<td>Aerodynamics</td>
<td>3</td>
</tr>
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</table>

**Certificate Core Requirements**

- **Credits: 12**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ATF1602C</td>
<td>Flight Simulator</td>
<td>3</td>
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<tr>
<td>ATT1100</td>
<td>Private Pilot Ground School</td>
<td>3</td>
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<td>ATT2120</td>
<td>Instrument Ground School</td>
<td>3</td>
</tr>
<tr>
<td>ATT2110</td>
<td>Commercial Pilot Ground School</td>
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</table>

**Total Program Credits: 24**

*Students wishing to instruct in Robinson Helicopters must also take ATF2541L to meet the requirements of SFAR 73-2*

**Employment Opportunities**

Students who successfully complete this program are qualified to fly as a professional pilot. However, most major airlines, charter companies, and private aircraft owners require more experience. Graduates of this program should continue to get the Associate of Science Degree that will include all FAA Flight Instructor licenses. Once these licenses are successfully attained, then the student can build flight experience required for these major flying careers.

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Palm Beach State currently has an articulation or transfer agreement with Embry-Riddle Aeronautical University which will allow the student who successfully completes the A.S. degree in Aeronautical Science to transfer the credits toward a Bachelor of Science in Professional Aeronautical and Technical Management

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Cosmetology PSAV

Cosmetology (5357)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Cosmetology

Program Description
The program includes theory and salon experience in hair styling, hair cutting, hair coloring, permanent waving and hair relaxing, manicures and pedicures, salon management and skin care services. In addition, course work covers cosmetology law, ethics, and other technical information related to the field. Instruction is designed to prepare the student to successfully pass the Florida State Board of Cosmetology exam. Upon passing the examination, the student will become a licensed cosmetologist. The 1200-hour program consists of ten required courses. The curriculum builds upon knowledge and skill sets from each previous course. Thus, a student cannot take two courses simultaneously. Each course must be completed and passed before enrolling in the next required course.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:

- Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 8; Mathematics: 8 or qualify for TABE exemption.

Program Length
Total program hours: 1,200. Approximate program length: one year for daytime students, two years for evening students. New daytime classes start in August, January and May each year. New evening classes start in August and January.
Location
The program is offered at the Lake Worth and Belle Glade campuses.

For More Information
Belle Glade campus - Gloria McAllister, mcallisg@palmbeachstate.edu, (561) 993-1175
Lake Worth campus - Cherri McKinnon, mckinnoc@palmbeachstate.edu, (561) 868-3851

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>COS0200</td>
<td>Cosmetology I - Introduction</td>
<td>120</td>
</tr>
<tr>
<td>COS0400</td>
<td>Cosmetology Hair Shaping 1</td>
<td>120</td>
</tr>
<tr>
<td>COS0301</td>
<td>Cosmetology Hair Shaping 2</td>
<td>120</td>
</tr>
<tr>
<td>COS0600</td>
<td>Cosmetology 5 - Chemicals</td>
<td>120</td>
</tr>
<tr>
<td>COS0700</td>
<td>Cosmetology 6 - Haircolor</td>
<td>120</td>
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<tr>
<td>COS0870</td>
<td>Cosmetology 4 - Salon Management</td>
<td>120</td>
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<td>CSP0240</td>
<td>Facials</td>
<td>120</td>
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<tr>
<td>CSP0010</td>
<td>Manicuring, Pedicuring, and Nail Extensions</td>
<td>120</td>
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<td>CSP0011</td>
<td>Salon Practice Lab 2</td>
<td>120</td>
</tr>
<tr>
<td>CSP0300</td>
<td>Salon Practice Lab 1</td>
<td>120</td>
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</table>

Total Program Clock Hours: 1,200

Employment Opportunities
After completing this program and obtaining a license, students may seek employment as a cosmetologist in beauty salons, spas, department stores, resorts, cruise ships, nursing and other residential care homes, and cosmetic stores.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Students may choose to take continuing education courses in the cosmetology field.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Diesel Technology 1 PSAV

Diesel Technology 1 (5468)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Diesel

Program Description
This program is designed to prepare students for employment in a variety of occupations and careers found in the diesel and heavy truck industry. A combination of technical theory and practical hands-on instruction will provide students with the “real-work skills” required for entry level employment in this high wage field.

Coursework for the Diesel Technology 1 program prepares students for the Medium/Heavy Truck Technician ASE (National Automotive Service Excellence) certification exams in Diesel Engines (T2), Brake Systems (T4) and Electrical and Electronic Systems (T6). For more information, please refer to the ASE’s website: www.ase.com.

Program coursework content also covers:
- Shop organization
- Environmental and safety practices
- Proper use of tools and equipment
- Applied math and science
- Employability skills
- Maintenance operations and shop facilities
- Entrepreneurship

Coursework for this program covers instruction in the proper and safe use of heavy diesel service tools and diagnostic equipment. The curriculum is designed to give students a combination of classroom and lab related activities.

The Diesel Technology Program is accredited by the National Automotive Education Foundation (NATEF): www.natef.org.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Take the TABE exam is not exempt from TABE testing. To determine if you are exempt, please go to (www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).
- Attend an information session or meet with the program advisor.

Completion Requirements
1. Students must successfully complete all courses listed in the catalog for this program.
2. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading 9; English 9; Mathematics 9; or qualify for TABE exemption.
3. All financial responsibilities must be satisfied.

Program Length
Total program hours: 1,050. The program can be finished in one year if you attend full time (days).

Location
The program is offered at the Lake Worth campus.

For More Information
Program Director:
Eligio Marquez Veray, marquez@palmbeachstate.edu, (561) 868-3542

To see when the course is offered, click the course number. To see a course description, click the course title.
### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
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<td>DIM0004</td>
<td>Introduction to Diesel Technology</td>
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<tr>
<td>DIM0014</td>
<td>Diesel Engine Systems 1</td>
<td>150</td>
</tr>
<tr>
<td>DIM0006</td>
<td>Diesel Engine Systems 2</td>
<td>150</td>
</tr>
<tr>
<td>DIM0302</td>
<td>Electrical and Electronic Systems 1</td>
<td>150</td>
</tr>
<tr>
<td>DIM0303</td>
<td>Electrical and Electronic Systems 2</td>
<td>150</td>
</tr>
<tr>
<td>DIM0007</td>
<td>Heavy Truck Brake Systems 1</td>
<td>150</td>
</tr>
<tr>
<td>DIM0008</td>
<td>Heavy Truck Brake Systems 2</td>
<td>150</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 1,050

#### Employment Opportunities

Upon completion of this program, you may seek employment as a Heavy/Medium Truck Technician, Fleet Technician, Bus Mechanic, Marine Diesel Technician, Heavy Equipment Repair or Parts Counterperson. Some Diesel Technicians work on heavy trucks and off-road equipment, including bulldozers, cranes, loaders, farm tractors, or combines.

#### Gainful Employment

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

#### Career Path Notes

Upon completion of the Diesel Technology 1 program, and meeting eligibility requirements, students will be able to enroll in the advanced diesel program, Diesel Technology 2. Once both Diesel PSAV programs are completed successfully, the student will be able to apply for prior learning credit and earn 24 college credits toward an A.S. degree in Industrial Management Technology.

For further information on the A.S. degree, please refer to [www.palmbeachstate.edu/programs/IndustrialMgmt](http://www.palmbeachstate.edu/programs/IndustrialMgmt).

#### Career Center

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

### Diesel Technology 2 PSAV

**Diesel Technology 2 (5457)**

#### Type of Award

PSAV - Post Secondary Adult Vocational Certificate

#### Program Website
Program Description
This is an advanced level program designed to prepare students for employment in a variety of occupations and careers found in the diesel and heavy truck industry. A combination of technical theory and practical hands-on instruction will provide students with the “real-work skills” required for entry level employment in this high wage field. Coursework in the advanced Diesel Technology 2 Program prepares students for the Medium/Heavy Truck Technician ASE (National Automotive Service Excellence) certification exams in Drive Train (T3), Suspension and Steering (T5), Heating Ventilation and A/C (T7) and Preventive Maintenance and Inspection (T8). For further information, please refer to the ASE’s website: www.ase.com.

Program coursework content also covers:
• Shop organization
• Environmental and safety practices
• Proper use of tools and equipment
• Applied math and science
• Employability skills
• Maintenance operations and shop facilities.
• Entrepreneurship

Coursework for this program covers instruction in the proper and safe use of heavy diesel service tools and diagnostic equipment. The curriculum is designed to give students a combination of classroom and lab related activities.

The Diesel Technology Program is accredited by the National Automotive Education Foundation (NATEF): www.natef.org.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:
• Successfully complete Diesel Technology 1.
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
• Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to (www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).
• Attend an information session or meet with the program advisor.

Completion Requirements
1. Students must successfully complete all courses listed in the catalog for this program.
2. All financial responsibilities must be satisfied.

Program Length
Total program hours: 750. The program can be finished in eight months if you attend full time (days).

Location
The program is offered at the Lake Worth campus.

For More Information
Program Director:
Eligio Marquez Veray, marqueze@palmbeachstate.edu, (561) 868-3542

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses
Clock Hours: 750
**Group A - Diesel Engine Preventive Maintenance Technician**

- **DIM0103**
  - Preventive Maintenance Inspection
  - 150

**Group B - Diesel Heating and Air Conditioning Technician**

- **DIM0610**
  - Heating and Air Conditioning
  - 150

**Group C - Diesel Steering and Suspension Technician**

- **DIM0500**
  - Truck Steering and Suspension
  - 150

**Group D - Diesel Drivetrain Technician**

- **DIM0201**
  - Drive Train Systems
  - 150
- **DIM0106**
  - Hydraulic Systems
  - 150

Total Program Clock Hours: 750

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Upon completion of this program, students may seek employment as a Heavy/Medium Truck Technician, Fleet Technician, Bus Mechanic, Marine Diesel Technician, Heavy Equipment Repair or Parts Counterperson. Some Diesel Technicians work on heavy trucks and off-road equipment, including bulldozers, cranes, loaders, farm tractors, or combines.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Upon completion of the Diesel Technology 1 program, and meeting eligibility requirements, students will be able to enroll in the advanced diesel program, Diesel Technology 2. Once both Diesel PSAV programs are completed successfully, the student will be able to apply for prior learning credit and earn 24 college credits toward an A.S. degree in Industrial Management Technology. For further information on the A.S. degree, please refer to [www.palmbeachstate.edu/programs/IndustrialMgmt](http://www.palmbeachstate.edu/programs/IndustrialMgmt).

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Electrical Power Technology AS**

**Electrical Power Technology (AS 2270)**

**Type of Award**

AS - Associate in Science

**Program Website**

[www.palmbeachstate.edu/programs/EPT](http://www.palmbeachstate.edu/programs/EPT)
Program Description
The Electrical Power Technology program is designed for the student who is seeking an A.S. degree and preparing for a career in the power technology field or instrumentation and control fields. It is also designed for employees in these fields who seek further education and career advancements. The skillset and knowledge acquired in the program applies to both the power industry and aerospace industry. Course content includes core courses in power generation with special programs in instrumentation and control, electrical engineering, process control technology and mechanical engineering.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if students attend full time or three years if they attend part time.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Oleg Andric, Associate Professor, andrico@palmbeachstate.edu, (561) 207-5414
Brenda Lesser, Administrative Assistant, (561) 207-5055

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education
ENC1101 College Composition 1 3
MAC1105 College Algebra 3
SPC1017 Fundamentals of Speech Communication 3
PSY2012 General Psychology 3
PHY1001 Applied Physics 3
Any course from Humanities Area II 3

Credits: 18

Core Program Requirements
EET1015C DC Circuit Analysis 3
EET1025C AC Circuit Analysis 3
ETP1220 Power Plant Fundamentals 3
ETI1701 Environmental Health and Safety 3
CGS1100 Microcomputer Applications 3
-or-

Credits: 41
### AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>Power Plant Science</td>
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<tr>
<td>ETI1000</td>
<td>Industrial Tools and Equipment</td>
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<tr>
<td>EET1215C</td>
<td>Introduction to Electronics</td>
<td>3</td>
</tr>
<tr>
<td>CET2123C</td>
<td>Microprocessors 1</td>
<td>3</td>
</tr>
<tr>
<td>CET2127C</td>
<td>Microprocessors 2</td>
<td>3</td>
</tr>
<tr>
<td>ETS2700C</td>
<td>Fluid and Pneumatic Controls</td>
<td>3</td>
</tr>
<tr>
<td>ETS2530C</td>
<td>Process Control Technology</td>
<td>3</td>
</tr>
<tr>
<td>EET2930C</td>
<td>Special Topics in Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ETS2520C</td>
<td>Process Measurement Fundamentals</td>
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**Electives (Select 9 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ETP1511C</td>
<td>Introduction to Bio Fuels</td>
<td>3</td>
</tr>
<tr>
<td>ETP1530C</td>
<td>Introduction to Wind Energy</td>
<td>3</td>
</tr>
<tr>
<td>ETP1540</td>
<td>Introduction to Hydro Power</td>
<td>3</td>
</tr>
<tr>
<td>ETP1402</td>
<td>Introduction to Solar Energy</td>
<td>3</td>
</tr>
<tr>
<td>ETP2410C</td>
<td>Photovoltaic Technology</td>
<td>3</td>
</tr>
<tr>
<td>ETS1810C</td>
<td>Energy Efficient Buildings</td>
<td>3</td>
</tr>
<tr>
<td>ETP1400C</td>
<td>Distributed Electrical Generation and Storage</td>
<td>3</td>
</tr>
<tr>
<td>ETP1550</td>
<td>Alternative Fuels and Electric Vehicle Technologies</td>
<td>3</td>
</tr>
<tr>
<td>EET2325C</td>
<td>Electronic Communications Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Credits: 68**

*Course may only be used once toward the A.S. degree.

### Employment Opportunities

Upon completion of this program, you may seek employment in an entry-level position with a broad base of skills in power generation and instrumentation and control fields. There will be expanded employment opportunities due to Florida's projected additional power needs. Job titles include technician in power generation, power technology, smart grid, electronics, engineering, operations control, instrumentation and controls, testing, calibrations, rotating machinery, research and development, or as engineering assistants.

### Career Path Notes
Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the web at www.palmbeachstate.edu/programs/Bachelor. In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Engineering Technology - Alternative Energy Systems AS

Engineering Technology - Alternative Energy Systems Concentration (AS 2550A)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/EngineeringTechnology

Program Description
The Engineering Technology program is designed for the student who is seeking an A.S. degree and preparing for a career in the engineering technology field or general electronics or alternative energies fields. It is also designed for employees in these fields who seek further education and career advancements. The skill set and knowledge acquired in the program applies to a variety of industries: manufacturing, engineering, aerospace, power, transportation and others.

Course content includes core courses in both electrical and mechanical engineering with special programs in advanced technology, alternative energy systems and electronics.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements

- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years of part time.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Robert VanDerVelde, Associate Dean, vanderr@palmbeachstate.edu, (561) 207-5416
Oleg Andric, Associate Professor, andrico@palmbeachstate.edu, (561) 207-5414
Brenda Lesser, Administrative Assistant, (561) 207-5055

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education
Credits: 18
### AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHY1001</td>
<td>Applied Physics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
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#### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ETM1010C</td>
<td>Mechanical Measurements and Instruments</td>
<td>2</td>
</tr>
<tr>
<td>ETI1701</td>
<td>Environmental Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>ETI2110</td>
<td>Introduction to Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>ETI1830</td>
<td>Materials and Processes 1</td>
<td>3</td>
</tr>
<tr>
<td>ETD2320C</td>
<td>Introduction to AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>EET1084C</td>
<td>Electrical Circuits and Electronics</td>
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#### Required Concentration Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ETP1400C</td>
<td>Distributed Electric ZPower Generation and Storage</td>
<td>2</td>
</tr>
<tr>
<td>ETP1402</td>
<td>Introduction to Solar Energy</td>
<td>3</td>
</tr>
<tr>
<td>ETP1511C</td>
<td>Introduction to Bio Fuels</td>
<td>3</td>
</tr>
<tr>
<td>ETP1530C</td>
<td>Introduction to Wind Energy</td>
<td>3</td>
</tr>
<tr>
<td>ETP1550</td>
<td>Alternative Fuels and Electric Vehicle Technologies</td>
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</table>

#### Technical Electives - Choose 11 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETP2410C</td>
<td>Photovoltaic Technology</td>
<td>2</td>
</tr>
<tr>
<td>ETS1810C</td>
<td>Energy Efficient Buildings</td>
<td>3</td>
</tr>
<tr>
<td>ETP1510C</td>
<td>Biofuels and Biomass</td>
<td>3</td>
</tr>
<tr>
<td>ETP1540</td>
<td>Introduction to Hydro Power</td>
<td>3</td>
</tr>
<tr>
<td>ETD2950C</td>
<td>Special Topics in Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>ETD2941</td>
<td>Engineering Technology Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Program Credits: 60**

### Employment Opportunities

Upon completion of this program, you may seek employment in an entry-level position with a broad base of skills in engineering technology. There will be expanded employment opportunities due to Florida’s projected additional engineering technologist needs. Job titles include technician in engineering technology, electronics, engineering, research and development, testing, drafting, alternative energies, or as engineering assistants, technologist.

### Career Path Notes
Courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Engineering Technology - Electronics Concentration AS

Engineering Technology - Electronics Concentration  (AS 2550B)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/EngineeringTechnology

Program Description
The Engineering Technology program is designed for the student who is seeking an A.S. degree and preparing for a career in the engineering technology field or general electronics or alternative energies fields. It is also designed for employees in these fields who seek further education and career advancements. The skill set and knowledge acquired in the program applies to a variety of industries: manufacturing, engineering, aerospace, power, transportation and others.

Course content includes core courses in both electrical and mechanical engineering with special programs in advanced technology, alternative energy systems and electronics.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
- Have a standard high school diploma or GED;
- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years of full-time enrollment or three years of part time.

Location
The program is offered at the Palm Beach Gardens campus.

For More Information
Robert VanDerVelde, Associate Dean, vanderr@palmbeachstate.edu, (561) 207-5416
Oleg Andric, Associate Professor, andrico@palmbeachstate.edu, (561) 207-5414
Brenda Lesser, Administrative Assistant, (561) 207-5055

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education
Credits: 18
### AREAS OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>PHY1001</td>
<td>Applied Physics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Courses**

- **ETM1010C** Mechanical Measurements and Instruments - 2 credits
- **ETI1701** Environmental Health and Safety - 3 credits
- **ETI2110** Introduction to Quality Assurance - 3 credits
- **ETI1830** Materials and Processes I - 3 credits
- **ETD2320C** Introduction to AutoCAD - 3 credits
- **EET2325C** Electronic Communications Systems - 3 credits

**Credits: 17**

**Required Concentration Courses**

- **EET1015C** DC Circuit Analysis - 3 credits
- **EET1025C** AC Circuit Analysis - 3 credits
- **EET1215C** Introduction to Electronics - 3 credits
- **CET2123C** Microprocessors 1 - 3 credits
- **CET2127C** Microprocessors 2 - 3 credits

**Credits: 14**

**Technical Electives - Choose 10 credits**

- **EET2724C** Schematic Capture and Modeling - 3 credits
- **EET1610C** Through-Hole Surface Mount Soldering - 2 credits
- **EET2620C** Advanced Surface Mount Soldering Technology - 2 credits
- **EET1141C** Analog Devices - 3 credits
- **EET1142C** Analog Circuits - 3 credits
- **EET2609C** Electronic Fabrication and Fiber Optics - 3 credits
- **ETD2950C** Special Topics in Engineering Technology - 3 credits
- **ETD2941** Engineering Technology Internship - 3 credits

**Credits: 10**

**Total Program Credits: 60**

**Employment Opportunities**

Upon completion of this program, you may seek employment in an entry-level position with a broad base of skills in engineering technology. There will be expanded employment opportunities due to Florida’s projected additional...
engineering technologist needs. Job titles include technician in engineering technology, electronics, engineering, research and development, testing, drafting, alternative energies, or as engineering assistants, technologist.

Career Path Notes
Courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Facial Specialty PSAV

Facial Specialty (5355)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Facial

Program Description
This PSAV program prepares the student for employment as a registered facial specialist. The program is designed to provide competencies in different types of facials and spa skin care treatments. Hair removal and different types of make-ups are demonstrated and performed.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:
Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
Total program hours: 260. Approximate program length: three months for daytime students, six months for evening students. Daytime classes start August, January and May. Evening classes start twice a year.

Location
This program is offered at the Lake Worth and Belle Glade campuses.

For More Information
Belle Glade Campus - Gloria McAllister, mcallisg@palmbeachstate.edu, 561-993-1175
Lake Worth campus - Cherri McKinnon, mckinnoc@palmbeachstate.edu, (561) 868-3851

To see when the course is offered, click the course number. To see a course description, click the course title.
Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CSP0260</td>
<td>FACIAL SPECIALIST</td>
<td>260</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 260

For individualized course sequence CLICK HERE

Employment Opportunities

After completing this program and obtaining a license, the student may seek employment as a facial specialist in a salon, spa, resort, cruise ship, cosmetic surgeon’s office or dermatologist office.

Gainful Employment

Program length excludes this program from gainful employment reporting requirements.

Career Path Notes

Students may choose to take continuing education courses in the facial specialty field.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: http://online.onetcenter.org/

Facilities Maintenance PSAV

Facilities Maintenance (5248)

Type of Award

PSAV - Post Secondary Adult Vocational Certificate

Program Website

www.palmbeachstate.edu/programs/FacilitiesMaintenance.

Program Description

This program is designed to prepare students for employment maintaining facilities to keep machines, mechanical equipment or the structure of an establishment in repair. A combination of technical theory and practical hands-on instruction provide students with the “real-work skills” required for entry level employment in this high-wage Field.

Coursework for the Facilities Maintenance program provides students with certifications in:

- OSHA 10
- Fire stop safety
- Lock out tag out
- Fall protection
- NCCER Carpentry Level 1
- NCCER Welding sections to Level 1

Coursework content also covers:

- Shop organization
- Environmental and safety practices
- Proper use of tools and equipment
- Applied math and science
- Employability skills
- Maintenance operations and shop facilities
- Entrepreneurship
- Proper and safe use of tools and diagnostic equipment

Admission Requirements
No high school diploma or GED is required. Students must:

- Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Attend a program informational session or contact the program director.
- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to (www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).
- See a program advisor.

Completion Requirements

Students must successfully complete all courses listed in the catalog for this program.

Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 9; Mathematics: 9 or qualify for TABE exemption.

Program Length

Total program clock hours: 900. Approximate program length: 10 months.

Location

This program is offered at the Lake Worth campus.

For More Information

Contact Kent Hartwig, hartwigk@palmbeachstate.edu, (561) 868-3541

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>BCV0407</td>
<td>Core Skills for Facilities Maintenance</td>
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</tr>
<tr>
<td>BCV0410</td>
<td>Carpentry Skills for Facilities Maintenance</td>
<td>150</td>
</tr>
<tr>
<td>BCV0460</td>
<td>Electrical Skills, Solar and Blueprint Reading for Facilities Maintenance</td>
<td>150</td>
</tr>
<tr>
<td>BCV0440</td>
<td>Application of HVAC Skills and Weatherization for Facilities Maintenance</td>
<td>150</td>
</tr>
<tr>
<td>BCV0480</td>
<td>Plumbing Skills and Landscape for Facilities Maintenance</td>
<td>150</td>
</tr>
<tr>
<td>BCV0481</td>
<td>Pest Control, Appliance Repair, NCCER Welding Skills and Surface Treatment for Facilities Maintenance</td>
<td>150</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 900
For individualized course sequence [CLICK HERE]

**Employment Opportunities**
Upon completion of this program, students may seek employment as entry-level maintenance technicians with a variety of employers including hospitals, resorts/hotels, school district/colleges/universities, nursing homes, housing developments and government facilities.

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**
Upon completion of the facilities maintenance program the student may apply for prior learning credit and earn 24 college credits toward an A.S. degree in Industrial Management Technology.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Heating, Ventilation, Air Conditioning and Refrigeration PSAV**

**Heating, Ventilation, Air Conditioning and Refrigeration (5267)**

**Type of Award**
PSAV - Post Secondary Adult Vocational Certificate

**Program Website**
[www.palmbeachstate.edu/programs/HVAC](http://www.palmbeachstate.edu/programs/HVAC)

**Program Description**
This PSAV program's course content includes broad, transferable skills, and stresses the understanding of all aspects of the heating, air conditioning and refrigeration industry. The curriculum emphasizes operational functions of systems, along with troubleshooting and repair of systems. The underlying principles of technology, labor issues, health, safety and environmental issues are also covered.

Shop or laboratory activities are an integral part of this program. These activities include instruction in the use of safety procedures and in the care of tools, equipment, materials and processes found in the industry.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
No high school diploma or GED is required. Students must:
Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).
Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to [www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx](http://www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.
Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 9; Mathematics: 10 or qualify for TABE exemption.

**Program Length**
Total program hours: 1,350.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Interim Program Director - Lynnmarie Gomes Highsmith, gomeshl@PalmBeachState.edu, (561) 868-3547

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Group A - Heating, A/C, and Refrigeration Helper</th>
<th>Clock Hours: 1,350</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR0501</td>
<td>Introduction to HVAC/R Principles</td>
<td>120</td>
</tr>
<tr>
<td>ACR0510</td>
<td>HVAC/R Tools and Component Fabrication</td>
<td>120</td>
</tr>
<tr>
<td>ACR0961</td>
<td>HVAC/R Field Work Experience 1</td>
<td>75</td>
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<tr>
<td></td>
<td>Group B - Heating, A/C, and Refrigeration Mechanic Assistant</td>
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</tr>
<tr>
<td>ACR0530</td>
<td>Electricity for HVAC/R</td>
<td>120</td>
</tr>
<tr>
<td>ACR0962</td>
<td>HVAC/R Field Work Experience 2</td>
<td>75</td>
</tr>
<tr>
<td>ACR0706</td>
<td>Introduction to HVAC/R System Installations</td>
<td>120</td>
</tr>
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<td></td>
<td>Group C - Heating, A/C, and Refrigeration Mechanics</td>
<td></td>
</tr>
<tr>
<td>ACR0307</td>
<td>Electronics and Refrigeration Systems</td>
<td>120</td>
</tr>
<tr>
<td>ACR0622</td>
<td>Heating Service and System Trouble Shooting</td>
<td>120</td>
</tr>
<tr>
<td>ACR0430</td>
<td>Indoor Air Quality for Air Conditioning</td>
<td>120</td>
</tr>
<tr>
<td>ACR0816</td>
<td>Installation and Repair of HVAC/R Systems</td>
<td>120</td>
</tr>
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<td></td>
<td>Group D - Heating, A/C, and Refrigeration Technician</td>
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<tr>
<td>ACR0710</td>
<td>Commercial HVAC/R Mechanical Components</td>
<td></td>
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<td>-or-</td>
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<tr>
<td>ACR0963</td>
<td>Field Work in HVAC/R 3</td>
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</tr>
<tr>
<td>ACR0066</td>
<td>Technical Engineering of HVAC/R Systems</td>
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</tr>
<tr>
<td></td>
<td>-or-</td>
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</tr>
<tr>
<td>ACR0964</td>
<td>Field Work in HVAC/R 4</td>
<td>120</td>
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</tbody>
</table>
Employment Opportunities

This program is designed to prepare the student for entry level employment in the heating, air conditioning and refrigeration industry.

Gainful Employment

For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes

Upon completion of these programs, students are awarded 24 credits towards the A.S. degree in Industrial Management Technology.

Career Center

www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Heavy Equipment Mechanics PSAV

Heavy Equipment Mechanics  (5456)

Type of Award

PSAV - Post Secondary Adult Vocational Certificate

Program Website

www.palmbeachstate.edu/programs/HeavyEquipmentMechanic

Program Description

This PSAV program is designed to prepare the student for employment as bus, truck and diesel engine mechanics, diesel mechanics helpers, mobile heavy equipment mechanics, construction equipment mechanics, and industrial truck mechanics.

Program Learning Outcomes

For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements

No high school diploma or GED is required. Students must:

• Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements

Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 9; Mathematics: 9 or qualify for TABE exemption (www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).

Program Length

Total program hours: 1,800. Approximate program length: 18 months evening students.

Location
The program is offered at the Belle Glade campus.

**For More Information**
Gloria McAllister, mcallisg@pallmbeachstate.edu, (561) 993-1175

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Clock Hours: 1,800</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Group A Diesel Engine Mechanic/Technician Helper</strong></td>
<td></td>
</tr>
<tr>
<td>DIM0840</td>
<td>Introduction to Heavy Equipment Mechanic</td>
</tr>
<tr>
<td></td>
<td>Group B Diesel Electrical and Electronics Technician</td>
</tr>
<tr>
<td>DIM0843</td>
<td>Electrical/Electronic Systems in Heavy Equipment 1</td>
</tr>
<tr>
<td>DIM0844</td>
<td>Electrical/Electronic Systems in Heavy Equipment 2</td>
</tr>
<tr>
<td>DIM0845</td>
<td>Group C Diesel Engine Preventive Maintenance Technician</td>
</tr>
<tr>
<td>DIM0845</td>
<td>Preventive Maintenance Inspection in Heavy Equipment</td>
</tr>
<tr>
<td></td>
<td>Group D Diesel Engine Technician</td>
</tr>
<tr>
<td>DIM0841</td>
<td>Heavy Equipment Mechanic Systems</td>
</tr>
<tr>
<td>DIM0842</td>
<td>Heavy Equipment Engine Systems</td>
</tr>
<tr>
<td>DIM0850</td>
<td>Group E Diesel Brakes Technician</td>
</tr>
<tr>
<td>DIM0848</td>
<td>Heavy Equipment Brake Systems</td>
</tr>
<tr>
<td>DIM0848</td>
<td>Drive Train Systems in Heavy Equipment 1</td>
</tr>
<tr>
<td>DIM0851</td>
<td>Group F Diesel Heating and Air Conditioning Technician</td>
</tr>
<tr>
<td>DIM0851</td>
<td>Heating and Air Conditioning Systems in Heavy Equipment</td>
</tr>
<tr>
<td>DIM0847</td>
<td>Group G Diesel Steering and Suspension Technician</td>
</tr>
<tr>
<td>DIM0847</td>
<td>Heavy Equipment Steering/Suspension</td>
</tr>
<tr>
<td>DIM0846</td>
<td>Group H Diesel Drive Train Technician</td>
</tr>
<tr>
<td>DIM0846</td>
<td>Hydraulic Systems in Heavy Equipment</td>
</tr>
<tr>
<td>DIM0849</td>
<td>Group I Diesel Power Train Technician</td>
</tr>
<tr>
<td>DIM0849</td>
<td>Drive Train Systems in Heavy Equipment 2</td>
</tr>
</tbody>
</table>
For the most current listing, go to the website. | www.palmbeachstate.edu/Programs

Total Program Clock Hours: 1,800

Employment Opportunities
Entry-level mechanic positions such as bus, heavy trucks and other diesel applications.

Gainful Employment
For more information about graduation rates, the median debt of students who completed the program, and other related information, see www.palmbeachstate.edu/areasofstudy/GainfulEmployment.

Career Path Notes
Heavy equipment mechanics are in high demand, and this program is the first step to a successful career.

Career Center
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

Industrial Management Technology AS

Industrial Management Technology (AS 2224)

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/IndustrialMgmt

Program Description
This degree program is designed for the student who seeks immediate employment in the operations management field upon graduation or who desires advancement and is presently employed in business related industries or technical fields.
Course content includes a core of business, human relations and managerial courses coupled with a technical core curriculum from a variety of technical areas including apprenticeship programs, automotive programs, cosmetology, heavy equipment mechanics, machining, welding and other PSAV trade and industrial programs offered at Palm Beach State.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if students attend full time or three years if they attend part time.

Location
The program is offered at the Lake Worth campus.

For More Information
Professor A. Roland Holt, holtr@PalmBeachState.edu, (561) 868-3213
or
LynnMarie Gomes Highsmith, gomeshl@PalmBeachState.edu, (561) 868-3235

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Credits: 15</th>
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<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1 3</td>
</tr>
<tr>
<td></td>
<td>Any course from Mathematics - Area III 3</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication 3</td>
</tr>
<tr>
<td></td>
<td>Any course from Social Science - Area V 3</td>
</tr>
<tr>
<td></td>
<td>Any course from Humanities - Area II 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management Core Requirements</th>
<th>Credits: 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS1100</td>
<td>Microcomputer Applications 3</td>
</tr>
<tr>
<td>ETI1701</td>
<td>Environmental Health and Safety 3</td>
</tr>
<tr>
<td>MNA2100</td>
<td>Human Relations in Business 3</td>
</tr>
<tr>
<td>GEB1011</td>
<td>Introduction to Business 3</td>
</tr>
<tr>
<td>MAR2011</td>
<td>Principles of Marketing 3</td>
</tr>
<tr>
<td>MAN2021</td>
<td>Principles of Management 3</td>
</tr>
<tr>
<td>GEB2930</td>
<td>Business Capstone 2</td>
</tr>
</tbody>
</table>

Technical Skill Articulation Credit Requirements

Complete one of the following Palm Beach State programs

*Apprenticeship Program:
  Building Trades Apprenticeship (Journeyperson Status) 25

-or-

*PSAV Program:
  Automotive Service Technology 1 (PSAV 5463) and 25
  Automotive Service Technology 2 (PSAV 5458)
  Cosmetology (PSAV 5357) 25
  Diesel Technology 1 (PSAV 5468) and 25
  Diesel Technology 2 (PSAV 5457)
Facilities Maintenance (PSAV 5248) 25
Heating, Ventilation, Air Conditioning and Refrigeration (PSAV 5267) 25
Heavy Equipment Mechanics (PSAV 5456) 25
Machining Technology (PSAV 5459) 25
Security and Automation Systems Technician (PSAV 5249) 25
Welding Technology (PSAV 5460) 25

Total Program Credits: 60

*Accepted as Prior Learning Credit Course (Number listed for each articulated program)

For individualized course sequence

Employment Opportunities
Upon completion of this program, students may seek employment in a variety of supervisory and technical areas in the fields of automotive, cosmetology, heavy equipment mechanics, machining, welding and other industrial fields requiring a broad knowledge of supervisory and operational managerial skills.

Career Path Notes
Courses from this program may transfer into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For further information, please refer to website — www.palmbeachstate.edu/programs/Bachelor.

In addition, courses from this program may transfer to other colleges and universities which allow students to transfer into a four-year program. For more information, contact the college or university to which you wish to transfer.

Career Center
www.palmbeachstate.edu/Career

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: http://online.onetcenter.org/

Machining Technology PSAV

Machining Technology (5459)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Machining

Program Description
This PSAV program is designed to prepare the student for employment in the manufacturing industry as a machinist. Course content includes safety issues of the manufacturing environment, associated math and blueprint reading skills, computer numerical control (CNC) programming, manufacturing planning/methods, inspection methods, coordinate measuring machine (CMM) use and related machining concepts and theories. Shop or laboratory
activities are an integral part of the program and provide instruction in the various machine tools, machine accessories and programming techniques related to current industry standard and practices.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
No high school diploma or GED is required. Students must:

- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).

- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to [www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx](http://www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 8; Mathematics: 9 or qualify for TABE exemption.

**Program Length**
Total program hours: 1,500. Approximate program length: 13 months.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Interim Program Director - Lynnmarie Gomes Highsmith, gomeshl@palmbeachstate.edu, (561) 868-3547

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Group A Machinist Helper</th>
<th>Clock Hours: 1,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT0202</td>
<td>Introduction To Machining</td>
<td>120</td>
</tr>
<tr>
<td>PMT0201</td>
<td>Shop Math, Blueprints and Measurements</td>
<td>120</td>
</tr>
<tr>
<td>Group B Machine Operator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMT0211</td>
<td>Manual Machining</td>
<td>120</td>
</tr>
<tr>
<td>PMT0230</td>
<td>Manual Machining - Advanced</td>
<td>120</td>
</tr>
<tr>
<td>PMT0229</td>
<td>Inspection Methods</td>
<td>120</td>
</tr>
<tr>
<td>Group C Machine Set-up Operator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMT0500</td>
<td>Manufacturing Methods</td>
<td>120</td>
</tr>
<tr>
<td>PMT0510</td>
<td>Manufacturing Methods - Advanced</td>
<td>120</td>
</tr>
<tr>
<td>PMT0260</td>
<td>Introduction to CAD/CAM Programming</td>
<td>120</td>
</tr>
<tr>
<td>PMT0251</td>
<td>Introduction to CNC Machining</td>
<td>120</td>
</tr>
<tr>
<td>Group D Machinist</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**AREAS OF STUDY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT0258</td>
<td>CNC Milling Methods</td>
<td>120</td>
</tr>
<tr>
<td>PMT0259</td>
<td>CNC Lathe Methods</td>
<td>120</td>
</tr>
<tr>
<td>PMT0228</td>
<td>Advanced CNC Concepts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>PMT0290</td>
<td>Machining Field Experience 1</td>
<td>120</td>
</tr>
<tr>
<td>PMT0265</td>
<td>Machining Technologies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-or-</td>
<td></td>
</tr>
<tr>
<td>PMT0291</td>
<td>Machining Field Experience 2</td>
<td>60</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 1,500

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Student may find entry-level employment as machinists, machinist helpers, computer aided design/computer aided manufacturing (CAD/CAM) operators or programmers, and CAD/CAM machine operators or programmers.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](#).

**Career Path Notes**

Upon completion of these programs, students are awarded 24 credits towards the A.S. degree in Industrial Management Technology.

**Career Center**

[www.palmbeachstate.edu/Career](#)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

**Nails Technician PSAV**

**Nails Technician** (5356)

**Type of Award**

PSAV - Post Secondary Adult Vocational Certificate

**Program Website**

[www.palmbeachstate.edu/programs/NailTech](#)

**Program Description**

This PSAV program prepares the student for employment as a registered nail specialist. This course is designed to provide instruction in school, classroom/laboratory safety rules and procedures. This course is designed to provide competencies in manicuring and pedicuring and in applying artificial nails and nail wraps.

**Program Learning Outcomes**

For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](#).

**Admission Requirements**

For the most current listing, go to the website. | www.palmbeachstate.edu/Programs | AREAS OF STUDY |
No high school diploma or GED is required. Students must:

- Complete an online Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

**Completion Requirements**
Students must successfully complete all courses listed in the catalog for this program.

**Program Length**
Total program hours: 240. Approximate program length: 2.5 months for daytime students, 5 months for evening students.

**Location**
This program is offered at the Lake Worth and Belle Glade campuses.

**For More Information**
Belle Glade Campus - Gloria McAllister, mcallisg@palmbeachstate.edu, (561) 993-1175
Lake Worth campus - Cherri McKinnon, mckinnoc@palmbeachstate.edu, (561) 868-3851

To see when the course is offered, click the course number. To see a course description, click the course title.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Clock Hours: 240</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSP0013 Nail Specialist</td>
<td>240</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 240

For individualized course sequence [CLICK HERE]

**Employment Opportunities**
After completing this program and obtaining a license, the student may seek employment as a nail specialist in a beauty or nail salon, spa, resort, or cruise ship.

**Gainful Employment**
Program length excludes this program from gainful employment reporting requirements.

**Career Center**
www.palmbeachstate.edu/Career
For more information about employment opportunities including job outlook and salary information visit: Occupational Outlook Handbook: http://www.bls.gov/oco/
O-Net Online: http://online.onetcenter.org/

**Residential and Commercial Electrician PSAV**

**Residential and Commercial Electrician (5246)**

**Type of Award**
PSAV - Post Secondary Adult Vocational Certificate

**Program Website**
www.palmbeachstate.edu/programs/Electrician

**Program Description**
The world would not function as it does today without electricity. Choosing a career as an electrician will provide you with a skill you can take anywhere and be successful. A long-term electrician career requires strong problem-solving skills as well as manual dexterity and the ability to work in different environments. The student will have opportunity to gain all the skills required to become an entry-level electrician in the areas of residential and commercial applications.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:
Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to (www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx).

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.
Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 9; Mathematics: 9 or qualify for TABE exemption.

Program Length
Total program hours: 1,200. Approximate program length: 12 months.

Location
The program is offered at the Lake Worth campus.

For More Information
Contact: Kent Hartwig 561-868-3541 or Lashonda Johnson 561-868-3767

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Group A - Electrician Helper</th>
<th>Clock Hours: 1,200</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCV0600 Electrician Helper 1</td>
<td>150</td>
</tr>
<tr>
<td>BCV0601 Electrician Helper 2</td>
<td>150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group B - Residential Electrician</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCV0641 Residential Wiring 1</td>
</tr>
<tr>
<td>BCV0642 Residential Wiring 2</td>
</tr>
<tr>
<td>BCV0644 Residential Wiring 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group C - Commercial Electrician</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCV0660 Commercial Wiring 1</td>
</tr>
<tr>
<td>BCV0661 Commercial Wiring 2</td>
</tr>
<tr>
<td>BCV0655 Commercial Wiring 3</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 1,200

Employment Opportunities
According to the Bureau of Labor Statistics employment of electricians should increase 12 percent between 2008 and 2018, about as fast as the average for all occupations. As the population grows, electricians will be needed to wire new homes, restaurants, schools and other structures that will be built to accommodate the growing
population. In addition, older buildings will require improvements to their electrical systems to meet modern codes and accommodate higher electricity consumption due to the greater use of electronic equipment in houses and workplaces.

**Gainful Employment**
For more information about graduation rates, the median debt of students who completed the program, and other related information, see [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**
Upon completion students are awarded 24 credits towards the A.S. degree in Industrial Management Technology or students have the option of starting work in the electrical industry and continuing their education through the Apprenticeship programs.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)
For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)

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**Security and Automation Systems Technician PSAV**

**Security and Automation Systems Technician (5249)**

**Type of Award**
PSAV - Post Secondary Adult Vocational Certificate

**Program Website**
[www.palmbeachstate.edu/programs/SecurityAutomation](http://www.palmbeachstate.edu/programs/SecurityAutomation)

**Program Description**
This program of instruction is designed to lead students through a high technology, multi-discipline set of content areas that will lead to employment installing and repairing security and home automation systems. Students Completing this program will be prepared to enter a profession with solid employment as well as professional growth opportunities as they learn and gain experience in the field of security and automation.

**Program Learning Outcomes**
For detailed information, visit [www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes](http://www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes).

**Admission Requirements**
No high school diploma or GED is required. Students must:
- Complete an Application for Admission, located at [www.palmbeachstate.edu/admissions/Admissions-Applications.aspx](http://www.palmbeachstate.edu/admissions/Admissions-Applications.aspx).
- Take the Test of Adult Education (TABE) before registering for classes.

**Completion Requirements**
Students must successfully complete all courses in the catalog for this program.

Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 9; Mathematics: 9 or qualify for TABE exemption ([www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx](http://www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx)).

**Program Length**
This program is 960 hours.

**Location**
The program is offered at the Lake Worth campus.

**For More Information**
Kent Hartwig, hartwigk@palmbeachstate.edu, (561) 868-3541

To see when the course is offered, click the course number. To see a course description, click the course title.

### Required Courses

<table>
<thead>
<tr>
<th>Group A - Security and Automation Systems Technician Helper</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCV0001</td>
</tr>
<tr>
<td>BCV0811</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group B - Security and Automation Systems Technician Applied Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCV0812</td>
</tr>
<tr>
<td>BCV0813</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group C - Security and Automation Systems Technician Advanced Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCV0814</td>
</tr>
<tr>
<td>BCV0815</td>
</tr>
<tr>
<td>BCV0816</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 960

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**
This program supports an industry which has a substantial hiring base and continues to grow at a higher than average rate for employment. The program is supported by area companies providing turnkey gate automation, video and access control systems, building automation, nurse call and fire alarm businesses.

**Career Path Notes**
Upon completion students are awarded 24 credits towards the A.S. degree in Industrial Management Technology. Student also have option of starting work in the electrical industry and continuing their education through the Apprenticeship programs.

**Career Center**
[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:
O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Sugar Technology AS

Sugar Technology (2243)
NOTE: THIS PROGRAM IS SUSPENDED AND IS NO LONGER ACCEPTING NEW STUDENTS.

Type of Award
AS - Associate in Science

Program Website
www.palmbeachstate.edu/programs/Sugar

Program Description
This program prepares student for employment as vital members of the sugar cane industry. The program is taught in classroom and factory settings, allowing students to learn the principles and necessary skills to work in practical settings of sugar cane milling, processing, and refining. The student will understand technical factory operations for sugar cane milling, processing, and refining. The student will be introduced to the concepts of quality assurance, control, and issues related to government and industry regulations and practices.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
• Have a standard high school diploma or GED;
• Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program.

Program Length
The program can be finished in two years if students attend full time or three years if they attend part time.

Location
This program is offered at the Belle Glade campus.

For More Information
Gloria Mcallister, mcallisg@palmbeachstate.edu, (561) 993-1175

To see when the course is offered, click the course number. To see a course description, click the course title.

General Education Credits: 20

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENC1101</td>
<td>College Composition 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Area II - Humanities</td>
<td>3</td>
</tr>
<tr>
<td>MAC1105</td>
<td>College Algebra *</td>
<td>3</td>
</tr>
<tr>
<td>STA1021</td>
<td>Probability and Statistics</td>
<td>1</td>
</tr>
<tr>
<td>SPC1017</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Any course from Area V - Social Science</td>
<td>3</td>
</tr>
<tr>
<td>PHY1001</td>
<td>Applied Physics *</td>
<td>3</td>
</tr>
</tbody>
</table>
For the most current listing, go to the website: www.palmbeachstate.edu/Programs

**AREAS OF STUDY**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM1032</td>
<td>Principles of Chemistry *</td>
<td>3</td>
</tr>
<tr>
<td>CHM1032L</td>
<td>Principles of Chemistry Lab *</td>
<td>1</td>
</tr>
</tbody>
</table>

**Credits: 40**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOM1261</td>
<td>Agriculture and Cane Farming</td>
<td>2</td>
</tr>
<tr>
<td>AOM1262</td>
<td>Sugar Cane Processing Overview and Engineering Practices</td>
<td>2</td>
</tr>
<tr>
<td>AOM1263C</td>
<td>Cane Quality and Analysis; Factory Analytical Methods</td>
<td>3</td>
</tr>
<tr>
<td>AOM1274C</td>
<td>Material Balance Calculations and Factory Control - 1</td>
<td>3</td>
</tr>
<tr>
<td>AOM1265C</td>
<td>Cane Preparation, Milling and Diffusion - 1</td>
<td>3</td>
</tr>
<tr>
<td>AOM1266C</td>
<td>Cane Preparation, Milling and Diffusion - 2</td>
<td>3</td>
</tr>
<tr>
<td>AOM2267C</td>
<td>Clarification, Filtration and Evaporation - 1</td>
<td>3</td>
</tr>
<tr>
<td>AOM2269C</td>
<td>Crystallization - 1</td>
<td>3</td>
</tr>
<tr>
<td>AOM2270C</td>
<td>Crystallization - 2; Centrifugation</td>
<td>3</td>
</tr>
<tr>
<td>AOM2271</td>
<td>Sugar and Molasses Quality, Handling, Storage and Shipping</td>
<td>3</td>
</tr>
<tr>
<td>AOM2275</td>
<td>Material Balance Calculations and Factory Control - 2</td>
<td>3</td>
</tr>
<tr>
<td>AOM2273</td>
<td>Basics of Sugar Refining</td>
<td>3</td>
</tr>
<tr>
<td>AOM2277</td>
<td>Regulatory and Quality Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Program Credits: 60

*Taken prior to enrolling in AOM courses

For individualized course sequence [CLICK HERE](#)

**Employment Opportunities**

Upon completion of this program, the student may seek employment in an entry-level position with essential knowledge for sugar cane milling and processing.

**Career Path Notes**

This program transfers into Palm Beach State’s Bachelor of Applied Science program in Supervision and Management. For more information, see the Web at [www.palmbeachstate.edu/programs/Bachelor](http://www.palmbeachstate.edu/programs/Bachelor).

In addition, many programs have transfer agreements with other colleges and universities which allow students to transfer course or program credit into a four-year program. For information on transfer agreements, visit [www.palmbeachstate.edu/Transfer](http://www.palmbeachstate.edu/Transfer).

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Welding Technology PSAV

Welding Technology (5460)

Type of Award
PSAV - Post Secondary Adult Vocational Certificate

Program Website
www.palmbeachstate.edu/programs/Welding

Program Description
This program prepares the student for entry-level employment in a variety of occupations in the welding industry. The content includes, but is not limited to, communication skills, human relations, employability skills, safe and efficient work practices, reading blueprints, identifying metals and basic shop skills. Shop activities are an integral part of this program and provide instruction in the various processes and fabrication skills, including torch cutting, arc welding, MIG welding, flux core welding, TIG welding, pipe welding, certification test preparation, use of current industry standards, practices and techniques.

Program Learning Outcomes
For detailed information, visit www.palmbeachstate.edu/learningoutcomes/Program-Learning-Outcomes.

Admission Requirements
No high school diploma or GED is required. Students must:

- Complete an Application for Admission, located at www.palmbeachstate.edu/admissions/Admissions-Applications.aspx.
- Take the TABE exam if not exempt from TABE testing. To determine if you are exempt, please go to www.palmbeachstate.edu/academicservices/curriculum-and-programs/Tabe-Standards.aspx.

Completion Requirements
Students must successfully complete all courses listed in the catalog for this program. Students must pass with the following minimum Test of Adult Basic Education (TABE) scores: Reading: 9; English: 9; Mathematics: 9 or qualify for TABE exemption.

Program Length
Total program hours: 1,170. Approximate program length: one year.

Location
The program is offered at the Lake Worth and Belle Glade campuses.

For More Information
Program Director - Gloria McAllister, mcallisg@palmbeachstate.edu, (561) 993-1175 - Belle Glade campus
Program Director - Lynnmarie Highsmith, gomeshl@palmbeachstate.edu, (561) 868-3547 - Lake Worth campus

To see when the course is offered, click the course number. To see a course description, click the course title.

Required Courses

<table>
<thead>
<tr>
<th>Group A</th>
<th>Clock Hours: 1,170</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT0108</td>
<td>Introduction to Welding</td>
</tr>
<tr>
<td>PMT0109</td>
<td>Introduction to Welding 2</td>
</tr>
</tbody>
</table>

Group B
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT0126</td>
<td>Shielded Metal Arc Welding</td>
<td>120</td>
</tr>
<tr>
<td>PMT0127</td>
<td>Shielded Metal Arc Welding Advanced</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Group C</td>
<td></td>
</tr>
<tr>
<td>PMT0147</td>
<td>Gas Metal Arc Welding</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Group D</td>
<td></td>
</tr>
<tr>
<td>PMT0143</td>
<td>Flux Cored Arc Welding</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Group E</td>
<td></td>
</tr>
<tr>
<td>PMT0150</td>
<td>Gas Tungsten Arc Welding</td>
<td>120</td>
</tr>
<tr>
<td>PMT0151</td>
<td>Gas Tungsten Arc Welding - Advanced</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Group F</td>
<td></td>
</tr>
<tr>
<td>PMT0167</td>
<td>Pipe Welding</td>
<td>120</td>
</tr>
<tr>
<td>PMT0168</td>
<td>Pipe Welding Advanced</td>
<td>90</td>
</tr>
</tbody>
</table>

Total Program Clock Hours: 1,170

For individualized course sequence [CLICK HERE]

**Employment Opportunities**

Upon graduation students may find employment in the aerospace industry, construction iron worker field or in manufacturing.

**Gainful Employment**

For more information about graduation rates, the median debt of students who completed the program, and other important information, please visit [www.palmbeachstate.edu/areasofstudy/GainfulEmployment](http://www.palmbeachstate.edu/areasofstudy/GainfulEmployment).

**Career Path Notes**

Upon completion of these programs, students are awarded 24 credits towards the A.S. degree in Industrial Management Technology.

**Career Center**

[www.palmbeachstate.edu/Career](http://www.palmbeachstate.edu/Career)

For more information about employment opportunities including job outlook and salary information visit:


O-Net Online: [http://online.onetcenter.org/](http://online.onetcenter.org/)
Courses Introduction

Introduction to Course Descriptions

The course list is in alphabetical order by course prefix. The course list contains the full title of the course, initials of the degree/certificates to which the course may be applied and the number of credits/clock hours earned upon successful completion of the course. This information is followed by the necessary prerequisites and corequisites and a description of the course.

Courses that are Gordon Rule and/or General Education courses will have a (*) at the end of the course listing to remind students that they may need to complete placement testing and remediation before taking these courses. These courses do not count toward Gordon Rule and General Education unless they are completed with a “C” or higher.

For the most current listing of courses and course information, click the Course Listing link above or visit this site.

When considering enrollment in courses offered at Palm Beach State, students in Associate in Science (A.S.) or certificate (C.C.C.) programs should refer to the program descriptions in this catalog for the list of required and elective courses in their program. For suggested course completion order and to obtain the most recent course configuration, please consult the program contact. View a list of program contacts.

Associate in Arts (A.A.) students should remember that transferability of a course to a four-year institution may be based on completion of the associate degree. For more information on course transferability and to obtain current information on degree requirements before enrolling in courses, consult a Palm Beach State academic advisor, an academic advisor at the targeted four-year institution, www.FloridaShines.org, or www.palmbeachstate.edu/admissions/Transfer-Students.aspx.

Honors College Courses

Honors College Courses are standard courses that have been enhanced for the Honors student, and approved to be offered by the discipline faculty cluster and the Honors Advisory Committee. To enroll in these courses, students must apply and be admitted to the Dr. Floyd F. Koch Honors College. Go to the Honors College Website to apply to the College and find out about awards and scholarships that may be available for you. Go to Honors College Courses to see the current list of Honors courses.

Florida’s Statewide Course Numbering System.

All public two- and four-year colleges and universities in Florida and 31 participating non-public institutions assign course numbers using the Florida’s Statewide Course Numbering System (SCNS). This common course numbering system is used to assist in transferring course credit between participating colleges and universities. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is located at http://scns.fldoe.org.

Each participating school controls the title, credit, content and level of each course they offer. The level is the first number in the course number. It generally tells the year or level at which this course is offered. (Ex. SYG 1010 is a freshman level course.) This number does not affect the transferability of a course. The course level numbers at Palm Beach State are as follows:

0 - developmental education credit, vocational developmental education and postsecondary adult vocational (PSAV) (Courses with level "0" do not transfer.)

1 - freshman year
2 - sophomore year
3 - junior year
4 - senior year

THE COURSE PREFIX
The course prefix is a three-letter grouping that stands for a major division of an academic discipline, subject area, or sub-category of knowledge. (Ex: SYG stands for General Sociology). The prefix does not identify the department which offers a course. Instead, the course content determines the prefix given to a course.

EXAMPLE OF COURSE IDENTIFIER

The course identifier, the prefix and the last three numbers of the course numbers (Ex. SYG 1010), are assigned by members of faculty discipline committees appointed by the Florida Department of Education. These committees are made up of a balance of faculty from two- and four-year, public and private, participating schools that offer this subject area or specialization.

SYG _010 is a survey course in social problems offered by 33 different two- and four-year colleges and universities in Florida. Each school uses “SYG_010” to identify its social problems survey course. The title may vary at each school and the level code (see paragraph two under Florida Statewide Course Numbering System) may differ. Palm Beach State offers SYG 1010, American Social Problems. The freshman level code number does not affect transferability. “SYG” means “Sociology, General,” the century number “0” represents “Entry-level General Sociology,” the decade number “1” represents “Survey Course,” and the unit number “0” represents “Social Problems.”

In science and other areas, some courses will have a “C” or “L” after the course number. The “C” stands for a combined lecture and lab course that meets in the same place at the same time. The “L” stands for a lab course or the lab part of a course with the same number, which meets at a different time or place.

General Rule for Equal Courses

Transfer of any successfully completed course from one school to another school is guaranteed in cases where the transfer course has the same course identifier (prefix and last three digits) as the one offered by the receiving school. Transferable courses have the same identifier and equal faculty credentials at the host school and the receiving school. For example, SYG 1010 is offered at Palm Beach State. The same course is offered at a participating four-year school as SYG 2010. A student who has successfully completed SYG 1010 at Palm Beach State is guaranteed transfer credit for SYG 2010 at any participating four-year school in Florida to which the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equal to SYG 2010. With a few exceptions, transfer credit must be awarded for successfully completed equal courses. It must be used by the participating two- or four-year school to satisfy degree requirements in the same way it would be used for the same credits earned by students who attend the receiving school. Receiving schools have the prerogative of offering transfer credit for other successfully completed courses in addition to equal transfer courses.

Note: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

Exceptions to the General Rule for Equal Courses

The following courses are exceptions to the general rule for course equality and may not transfer. The ability of these courses to transfer is up to the receiving school:

- Courses not offered by the receiving institution.
- For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
- Courses in the _900-999 series are not automatically transferable and must be evaluated individually. These include such courses as Special Topics, Internships, Practica, Study Abroad, Thesis and Dissertations.
- College developmental education and vocational developmental education courses.
- Graduate courses.
- Internships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
- Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice are not guaranteed as transferable.
- College developmental education, vocational developmental education, and PSAV courses (level “0”) may not be used to meet A.A. degree requirements and cannot be transferred.

Authority for Acceptance of Equal Courses
Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Courses at Nonregionally Accredited Institutions

The Statewide Course Numbering System makes available on its home page (http://scns.fldoe.org), a report entitled “Courses at Nonregionally Accredited Institutions” that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course’s transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to the College’s Office of Academic Services, 561-868-3893, e-mail gamblek@palmbeachstate.edu or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at 850-245-0427 or via the Web at http://scns.fldoe.org.
## Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG2022</td>
<td>Financial Accounting (AA)</td>
<td>4</td>
<td></td>
<td>Introduction to financial accounting concepts including the accounting cycle, internal control, balance sheet accounts, cash flow and characteristics of corporations. (This is the first course in an introductory series.)</td>
</tr>
<tr>
<td>ACG2071</td>
<td>Managerial Accounting (AA)</td>
<td>3</td>
<td>ACG2022</td>
<td>Introduction to managerial accounting concepts including financial statement analysis, accounting’s role in management decision-making, cost concepts and behavior, job order and process cost accounting, cost-volume-profit analysis responsibility accounting, differential analysis and capital investment analysis. (This is the second course in an introductory series.)</td>
</tr>
<tr>
<td>ACG2100</td>
<td>Intermediate Accounting (AS)</td>
<td>3</td>
<td>ACG2071</td>
<td>Conceptual framework for financial accounting and reporting providing in-depth examination of the accounting process and the content of financial statements, including cash, short-term investments, receivables, inventories, current liabilities, plant and intangible assets and long-term investments.</td>
</tr>
<tr>
<td>ACG2360</td>
<td>Cost Accounting (AS)</td>
<td>3</td>
<td>ACG2071</td>
<td>Examines common cost systems with emphasis on cost for materials, labor, overhead, standard costs and cost relationships.</td>
</tr>
<tr>
<td>ACG2450</td>
<td>Microcomputer Operations Accounting (AS)</td>
<td>3</td>
<td>ACG2022 or (MTB1103 and APA1111) and CGS1100</td>
<td>An overview of microcomputer accounting applications. A general accounting program is used to complete the accounting cycle for different types of businesses. Excel is used to develop spreadsheet analysis.</td>
</tr>
<tr>
<td>ACR0066</td>
<td>Technical Engineering of HVAC/R Systems (PSAV)</td>
<td>120</td>
<td>ACR0710 (or ACR0963), VPI0100, VPI0200, VPI0300</td>
<td>This course provides instruction and practice in calculating commercial heating and air conditioning loads and their application in determining design and capacity of systems as well as the monitoring, maintenance and repair of commercial systems.</td>
</tr>
<tr>
<td>ACR0307</td>
<td>Electronics and Refrigeration Systems (PSAV)</td>
<td>120</td>
<td>ACR0706, VPI0100, VPI0200, VPI0300</td>
<td>This course provides solid-state electronics used in HVAC and R systems including principles of direct digital controls and solid-state circuits. Hands-on practice is provided with circuit boards, programmable thermostats, operating mechanical refrigeration service and testing equipment, and refrigerant recovery systems. Also covered are functions of a building-management system.</td>
</tr>
<tr>
<td>ACR0430</td>
<td>Indoor Air Quality for Air Conditioning (PSAV)</td>
<td>120</td>
<td>ACR0622, VPI0100, VPI0200, VPI0300</td>
<td>This course provides instruction in the properties of air, use of pressure enthalpy charts and standards for and ways to measure indoor air quality.</td>
</tr>
<tr>
<td>ACR0501</td>
<td>Introduction to HVAC/R Principles (PSAV)</td>
<td>120</td>
<td>VPI0100, VPI0200, VPI0300</td>
<td>This course provides lecture, demonstration and hands-on practice in introductory air conditioning, refrigeration and heating concepts and techniques including major components of the refrigeration cycle. History of the trade, current trends and practices are discussed. Personal and industrial safety in the use of tools and handling of materials is emphasized in laboratory activities.</td>
</tr>
</tbody>
</table>
ACR0510  HVAC/R Tools and Component Fabrication (PSAV)
120 clock hours
Corequisites: ACR0501, VPI0100, VPI0200, VPI0300
This course provides lecture, demonstration and hands-on practice in the proper use of tools and measuring techniques in the trade. Students will identify tubing types, pipe fitting, bends and assembling techniques. Students will solder, braze, fabricate and leak test piping, tubes and fittings. Also provided is instruction in oral and written communication, research, and employability skills. Entrepreneurship is discussed.

ACR0530  Electricity for HVAC/R (PSAV)
120 clock hours
Corequisites: ACR0510, VPI0100, VPI0200, VPI0300
This course provides instruction in basic electricity and the electrical components of heating, air conditioning, and refrigeration equipment. Hands-on practice in wiring and troubleshooting electrical control systems, motors and components is provided in the laboratory.

ACR0622  Heating Service and System Trouble Shooting (PSAV)
120 clock hours
Corequisites: ACR0307, VPI0100, VPI0200, VPI0300
This course provides instruction and hands-on practice in combustion-type heating servicing, use of testing equipment and troubleshooting of gas valves and regulators as well as providing instruction in maintaining, testing and troubleshooting electrical systems, motors, circuits and pneumatic controls in commercial heating, air conditioning and refrigeration.

ACR0706  Introduction to HVAC/R System Installations (PSAV)
120 clock hours
Corequisites: ACR0530, VPI0100, VPI0200, VPI0300
This course provides hands-on practice in the installation of residential heating and air-conditioning systems for the assistant mechanic.

ACR0710  Commercial HVAC/R Mechanical Components (PSAV)
120 clock hours
Corequisites: ACR0816, VPI0100, VPI0200, VPI0300
This course provides instruction in selection, testing, maintenance and troubleshooting of commercial heating, air conditioning and refrigeration mechanical systems and components including compressors, evaporators, condensers, heat recovery and thermal systems and accessories.

ACR0762  Introduction to Sustainable HVAC Practices (PSAV)
150 clock hours
Corequisites: ETP0450 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course describes the different energy efficient systems HVAC professionals may use for different applications. The course illustrates how each of these systems may be applied and installed. It shows the advantages and disadvantages of each technology and how that particular HVAC system contributes to the building's overall efficiency. It shows how different climates throughout the country play a vital role in determining which system can be the most beneficial.

ACR0816  Installation and Repair of HVAC/R Systems (PSAV)
120 clock hours
Corequisites: ACR0430, VPI0100, VPI0200, VPI0300
This course provides hands-on practice in the installation, maintenance, and repair of heating, air conditioning, and refrigeration systems for the mechanic.

ACR0930-R  Air Conditioning and Refrigeration Apprenticeship Co-op (First Year) (PSAV)
475 clock hours
This course provides related technical instruction and hands-on experience in which students attain basic field knowledge of the heating, ventilation, air conditioning and refrigeration industry, including identification of parts of a blueprint, mechanical and architectural drawings, use of basic drafting tools, drawing simple prints and sketches, size calculations using basic formulas, and ability to discuss the Florida Energy Code and make calculations using the Code. This on-the-job portion of the program may be repeated for credit. Specific job skills must be identified on a job-skills plan. The second semester of this course includes use of Manual J, safe use of equipment and tools, operating principle of different fans, proper use of equipment to check air flow, and the relation of air distribution to duct sizes and design.

ACR0931-R  Air Conditioning and Refrigeration Apprenticeship Co-op (First Year-Summer) (PSAV)
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. The respective cooperative teacher and employer provide on-the- job supervision. This on-the-job portion of the program may be repeated for credit. Specific job skills must be identified on a job-skills plan. Selected job-skills will be evaluated a minimum of once during each grading period.
ACR0932-R  Air Conditioning and Refrigeration Apprenticeship Co-op (Second Year) (PSAV)
475 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. The respective cooperative teacher and employer provide on-the-job supervision. This on-the-job portion of the program may be repeated for credit. Specific job-skills must be identified on a job-skills plan. Selected job-skills will be evaluated a minimum of once during each grading period.

ACR0933-R  Air Conditioning and Refrigeration Apprenticeship Co-op (Second Year-Summer) (PSAV)
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. The respective cooperative teacher and employer provide on-the-job supervision. This on-the-job portion of the program may be repeated for credit. Specific job-skills must be identified on a job-skills plan. Selected job-skills will be evaluated a minimum of once during each grading period.

ACR0934-R  Air Conditioning and Refrigeration Apprenticeship Co-op (Third Year) (PSAV)
475 clock hours
This is a related technical instruction and hands-on course in which students attain basic field knowledge of the heating, ventilation, air conditioning and refrigeration industry, including identification of parts of a blueprint, mechanical and architectural drawings, use of basic drafting tools, drawing simple prints and sketches, size calculations using basic formulas, and ability to discuss the Florida Energy Code and make calculations using the Code. This on-the-job portion of the program may be repeated for credit. Specific job skills must be identified on a job-skills plan. The second semester of this course includes use of Manual J, safe use of equipment and tools, operating principle of different fans, proper use of equipment to check air flow, and the relation of air distribution to duct sizes and design.

ACR0935-R  Air Conditioning and Refrigeration Apprenticeship Co-op (Third Year-Summer) (PSAV)
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. Specific job skills must be identified in a job-skills plan.

ACR0936-R  Air Conditioning and Refrigeration Apprenticeship Co-op (Fourth Year) (PSAV)
475 clock hours
This is a related technical instruction and hands-on course in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry, including math, safety, refrigeration practice.

ACR0937-R  Air Conditioning and Refrigeration Apprenticeship Co-op (Fourth Year-Summer) (PSAV)
350 clock hours
This course provides related technical instruction and hands-on experience in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry, including math, safety, refrigeration practices, the basic refrigeration cycle, and identification of basic and specialized tools.

ACR0940  Air Conditioning and Refrigeration Apprenticeship 1 (PSAV)
72 clock hours
This course provides technical instruction and hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry including math, safety, refrigeration practices, the basic refrigeration cycle, and identification of basic and specialized tools.

ACR0941  Air Conditioning and Refrigeration Apprenticeship 2 (PSAV)
72 clock hours
This course provides technical instruction and hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry including cutting, joining and brazing copper tubing, soldering and brazing practices, and use of recovery equipment.

ACR0942  Air Conditioning and Refrigeration Apprenticeship 3 (PSAV)
72 clock hours
This course provides technical instruction and hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry including defining electrical and electronic terms, AC and DC current, series and parallel circuits, and basic motor theory.

ACR0943  Air Conditioning and Refrigeration Apprenticeship 4 (PSAV)
72 clock hours
This course provides technical instruction and hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry including formulas to solve electrical problems, components of an electrical circuit, common circuit controls in A/C systems, safety devices used in electrical systems, differentiation between circuit diagrams, and safety procedures for servicing electric motors.
ACR0944  Air Conditioning and Refrigeration Apprenticeship 5 (PSAV)  
72 clock hours  
This course provides hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry, including identification of parts of a blueprint, mechanical and architectural drawings, use of basic drafting tools, drawing simple prints and sketches, size calculations using basic formulas, and ability to discuss the Florida Energy Code and make calculations using the Code.

ACR0945  Air Conditioning and Refrigeration Apprenticeship 6 (PSAV)  
72 clock hours  
This course provides technical instruction and hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry, including calculation of heat loss and gain, use of manual "J", safe use of equipment and tools, operation principles of various fans, equipment use to check air flow, and air distribution related to duct size and design.

ACR0946  Air Conditioning and Refrigeration Apprenticeship 7 (PSAV)  
72 clock hours  
This course provides students with realistic on-the-job training experience. The respective cooperative teacher and employer will provide the supervision in the on-the-job portion of the program and it will be scheduled as required hours for the program. Identify specific welding job skills that will be evaluated selectively on a minimum basis during each grading period.

ACR0947  Air Conditioning and Refrigeration Apprenticeship 8 (PSAV)  
72 clock hours  
This course provides technical instruction and hands-on application in which students attain basic knowledge of the heating, ventilation, air conditioning and refrigeration industry including chemical water treatment, types of pneumatic systems, use of volume boxes, use of dampers, energy management systems gas furnace operation, and indoor air quality.

ACR0961  HVAC/R Field Work Experience 1 (PSAV)  
75 clock hours  
Corequisites: ACR0066 (or ACR0964), VPI0100, VPI0200, VPI0300  
This course provides students with realistic on-the-job training experience. The respective cooperative teacher and employer will supervise the on-the-job portion of the program which will be scheduled as required hours for the program. Identify specific heating, AC, refrigeration and helper job skills that will be evaluated selectively on a minimum basis during each grading period.

ACR0962  HVAC/R Field Work Experience 2 (PSAV)  
75 clock hours  
Corequisites: ACR0961, VPI0100, VPI0200, VPI0300  
This course provides students with realistic on-the-job training experience. The respective cooperative teacher and employer will supervise the on-the-job portion of the program which will be scheduled as required hours for the program. Identify specific heating, AC, refrigeration and helper job skills that will be evaluated selectively on a minimum basis during each grading period.

ACR0963  Field Work in HVAC/R 3 (PSAV)  
120 clock hours  
Corequisites: ACR0816, VPI0100, VPI0200, VPI0300  
This course provides students with realistic on-the-job training experience. The respective cooperative teacher and employer will supervise the on-the-job portion of the program which will be scheduled as required hours for the program. Identify specific heating, AC, refrigeration and helper job skills that will be evaluated selectively on a minimum basis during each grading period.

ACR0964  Field Work in HVAC/R 4 (PSAV)  
120 clock hours  
Corequisites: ACR0710 (or ACR0963), VPI0100, VPI0200, VPI0300  
This course provides students with realistic on-the-job training experience. The respective cooperative teacher and employer will supervise the on-the-job portion of the program which will be scheduled as required hours for the program. Identify specific heating, AC, refrigeration and helper job skills that will be evaluated selectively on a minimum basis during each grading period.

AER0006  Introduction to Automotive Services (PSAV)  
150 clock hours  
Corequisites: VPI0100, VPI0200, VPI0300  
This course will introduce students to entry level skills in basic automotive service and systems operations. The topics covered include shop safety, OSHA rules, identification and proper use of shop tools and equipment, automotive component identification, ASE certification requirements, use of electronic service information, proper use of measuring tools, EPA rules on hazardous waste handling and disposal, routine maintenance and customer service. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.
AER0033  Applied Academics for Automotive Technicians (PSAV)
75 clock hours
Prerequisite: AER0692 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to prepare students to use and demonstrate written and verbal communication skills. In addition, it will include the understanding and application of appropriate math and science used in the automotive service industry.

AER0080  Workplace Skills for Automotive Technicians (PSAV)
75 clock hours
Prerequisite: AER0692 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course will introduce the major components of obtaining employment and basic understanding of entrepreneurship. Major topics will include job search, employment retention skills, business ownership and work ethics. All of the course content will relate to the automotive service industry.

AER0199  Automotive Engine Repair (PSAV)
150 clock hours
Corequisites: AER0692 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in engine theory and repair. Areas of concentration will include the diagnosis and repair of cylinder head and valve train, engine block, lubrication and cooling systems. Course will consist of both classroom and laboratory activities designed to meet industry standards and safety.

AER0299  Automotive Automatic Transmissions and Transaxles (PSAV)
150 clock hours
Prerequisite: AER0080 or AER0940 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to teach the principles, operation, diagnosis and repair of automatic transmissions and transaxles. The areas of concentration will include preventive maintenance, service adjustments, removal and installation and component replacement. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

AER0399  Automotive Manual Transmissions and Transaxles (PSAV)
150 clock hours
Prerequisite: AER0080 or AER0940 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in the operation, service, diagnosis and repair of manual transmissions and transaxles. An emphasis will be placed on the removal, repair and replacement clutch assemblies, drive shafts, differentials and four-wheel drive components. The course will consist of both classroom and laboratory activities designed to meet industry standards and safety.

AER0499  Automotive Steering And Suspension (PSAV)
150 clock hours
Corequisites: AER0692 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in steering, suspension and wheel alignment systems. Emphasis will be placed on the diagnosis, and repair of components that are critical to safe and efficient operation. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve industry standards and safety.

AER0599  Automotive Brake Systems (PSAV)
150 clock hours
Corequisites: AER0691 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in the operation and servicing of brake systems. Instruction will include disc and drum brakes, power assist units, anti-lock systems, and related miscellaneous mechanical/electrical components. Instruction will consist of both classroom and laboratory activities designed to meet industry standards and safety.

AER0691  Automotive Electrical and Electronic Systems 1 (PSAV)
150 clock hours
Corequisites: AER0006 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to teach the principles of electrical and electronic diagnosing and troubleshooting of automotive parts and components. An emphasis will also be placed on the proper diagnosis, service and repair of battery and starting systems. Instruction will consist of both classroom and laboratory activities designed to meet industry standards and safety.

AER0692  Automotive Electrical and Electronic Systems 2 (PSAV)
150 clock hours
Corequisites: AER0599 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This is an advanced course designed to establish proficiency in the diagnosis and repair of the vehicle’s charging systems, lighting systems, driver information systems and electrical/electronic accessories. The course will consist of classroom and laboratory activities designed to meet industry standards and safety.
AER0759  Automotive Heating And Air Conditioning (PSAV)
150 clock hours
Prerequisite: AER0080 or AER0940 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in the diagnosis and repair of heating, air conditioning and engine cooling systems. Emphasis will be placed on controls, vacuum and mechanical components, clutch and compressor and refrigerant recovery. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

AER0891  Automotive Engine Performance 1 (PSAV)
150 clock hours
Prerequisite: AER0080 or AER0940 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This is an introductory course designed to establish proficiency in the diagnosis and repair of engine ignition systems, computerized controls, and emissions systems. Special emphasis will be placed on the proper use of engine performance diagnostic tools such as the engine analyzer, oscilloscope, emissions analyzer and hand held scan tools. The course instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

AER0892  Automotive Engine Performance 2 (PSAV)
150 clock hours
Corequisites: AER0891 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to establish an advanced level of proficiency in the diagnosis and repair of engine performance and drivability problems that may affect the power, fuel economy, emission output levels and dependability of the vehicle. The major areas covered include the diagnosis and troubleshooting of the emission control system, computer system, ignition system, fuel system, exhaust system and the engine's mechanical system. The student will learn to use diagnostic tools such as a trouble code scanner, oscilloscope, computer analyzer and a dynamometer. Course will consist of classroom and laboratory activities designed to meet industry standards and safety.

AER0940  Automotive Services Field Work Experience (PSAV)
75 clock hours
Prerequisites: Instructor permission required, AER0692 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills, and attitudes in an occupational field. On the job supervision is provided by the respective cooperative teacher and employer. Selected job skills will be evaluated a minimum of once during each grading period.

AMH2010  United States History To 1865 (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate English and reading placement scores or course completion required to enroll in this General Education course.
Examines the extension of European culture into the Western Hemisphere, the growth and development of the 13 English colonies and intensive study of the Constitution of the United States and the early national period of the United States to the end of the Civil War. Requires a demonstration of computer application. (*)

AMH2020  United States History from 1865 to Present (AA)
3 credits (3 lecture hours)
A continuation of AMH2010, this course emphasizes the development of the United States into a world power and the internal, economic, social, political and cultural movements and forces. (*)

AMH2091  African-American History (AA)
3 credits (3 lecture hours)
This is a survey course of African American History including the emergence and evolution of the African American experience in the Western Hemisphere from the sixteenth century to the twenty-first century. Emphasis will be placed on the African American's economic, political, and cultural development and their contributions to American society.

AML2010  American Literature to 1865 (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Study of the literature of America from colonial times through the Civil War era. Students will examine the literary works, ideas, authors, history and intellectual climate of early America. Students will also develop effective reading, writing and analytical skills and a sense of literary taste. (*)

AML2020  American Literature After 1865 (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Study of the literature of America from the Civil War through the modern era. Students examine the literary works, ideas, authors, history and intellectual climate of modern America. They also develop effective reading, writing and analytical skills and a sense of literary taste. (*)
AML2600  African American Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
A survey of literature by African Americans from the eighteenth century to the present. Students will understand African-American literature as both attached to and counter to the mainstream tradition. (*)

AML2631  Hispanic American Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
This course surveys literature by Hispanic Americans throughout American history, with an emphasis on contemporary works. Issues of varied influences, culture, disenfranchisement, agency, identity and inclusion are among those considered. The student will develop an understanding of the Hispanic American experience and its rich literary traditions. (*)

AML2660  Jewish American Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 (with a grade of C or higher) or its equivalent.
This course explores the representations and interpretations of Jews and Judaism throughout American literary history and culture, from the seventeenth century through present day. Readings trace how Jewish writers negotiate Jewish and national identity as they use numerous literary genres in their attempt to define what it means to be Jewish in America, what it means to be American, and what it means to be a Jewish American. (*)

AMT1933  Airframe and Power Plant Certification (AS)
24 credits (24 lecture hours)
Prerequisite: Verification of Airframe and Power Plant Certification
This internal institutional course acknowledges articulation credits for those students who currently hold (1) an Airframe Certificate and (2) a Power Plant Mechanics Certificate, issued by the Federal Aviation Administration (FAA), and allows them to pursue the Maintenance Management two-year degree that will provide management skills and knowledge for advancement within the aviation maintenance industry. This course is awarded through prior learning assessment.

ANT2000  Anthropology (AA)
3 credits (3 lecture hours)
Survey of anthropology: human kind’s remote origins, physical traits (physical anthropology), languages (linguistics) and antiquities (archaeology), as well as lifestyles and institutions of peoples around the world (cultural and social anthropology). Diversities and similarities are explored through selected theories and methods. Demonstration of computer application is required. (*)

ANT2100  Introduction to Archaeology (AA)
3 credits (3 lecture hours)
This course will examine the history and methodology of archaeology, a sub-discipline of anthropology. Students will learn archaeological concepts and procedures and see how they are used to make and study finds in order to illuminate the past. This course will scrutinize archaeology’s application in the modern world by working through ethical issues and practical challenges that confront archaeologists today.

AOM1261  Agriculture and Cane Farming (AS)
2 credits (2 lecture hours)
Prerequisites: CHM1032, CHM1032L, MAC1105, PHY1001 (with a grade of C or higher)
Students will understand and appreciate the activities involved in land preparation, cane planting and fertilization, weed control, irrigation and drainage, and harvesting and transportation of the cane to the mill. This introductory course provides students with the background to understand the impact of agricultural activities on mill operations.

AOM1262  Sugar Cane Processing Overview and Engineering Practices (AS)
2 credits (2 lecture hours)
Prerequisite: AOM1261 (with a grade of C or higher)
Students will understand and appreciate the activities that take place in a raw sugar mill and the basic engineering concepts involved. The overall process will be understood in terms of mass and volume flow and the means of achieving these, using pumps, conveyors, etc. Basic qualitative concepts of temperature, heat and heat transfer are covered.

AOM1263C  Cane Quality and Analysis; Factory Analytical Methods (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM1262 (with a grade of C or higher)
Students will understand and appreciate the activities of the laboratory for both cane quality analysis and for factory process control and determination of raw sugar quality. Units of measurement, precision and accuracy, data recording, and computer entry are explained. The concept of the factory material balance are introduced.
AOM1265C  Cane Preparation, Milling and Diffusion - 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM1274C (with a grade of C or higher)
Students will understand and appreciate the factors involved in determining satisfactory extraction of sucrose from cane and the equipment required. Students will also appreciate the importance of cane quality and steady operation of the cane factory and the problems that can occur in milling operations on a descriptive rather than quantitative level.

AOM1266C  Cane Preparation, Milling and Diffusion - 2 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM1265C (with a grade of C or higher)
Students will understand and appreciate the mechanical and operational issues involved in the extraction of sucrose from cane from a quantitative perspective and will become aware of the engineering issues involved. This course introduces students to technologies not employed in the local industry and the benefits of automation.

AOM1274C  Material Balance Calculations and Factory Control - 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM1263C (with a grade of C or higher)
Students will understand and appreciate the factors involved in determining satisfactory operation of the sugar factory and the measurements and analyses involved. Students will appreciate the factors involved in performance assessment and how a factory report is produced at a basic level - more complex issues to be covered in AOM2275.

AOM2267C  Clarification, Filtration and Evaporation - 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM1266C (with a grade of C or higher)
Students will understand and appreciate the thermal and chemical aspects of juice purification, the issues of removal and treatment of impurities and the importance of evaporation as an operation in the factory. The treatment of the subject is more descriptive than quantitative and focuses on the types of equipment and systems involved.

AOM2269C  Crystallization - 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM1266C (with a grade of C or higher)
Students will become aware of the essential importance of crystallization in raw sugar production, the types of equipment used and the general operating conditions, including, from a more qualitative perspective, the underlying physical principles involved. Students will become familiar with the underlying quantitative calculations of sugar recovery by crystallization.

AOM2270C  Crystallization - 2; Centrifugation (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: AOM2269C (with a grade of C or higher)
Students will become aware of the critical quantitative data and calculations necessary for operation of this stage of raw sugar production, the practical limits of the technology and the application of automatic control. At the end of this course, students should be able to derive a crystallization scheme for a range of syrup characteristics and centrifugation options.

AOM2271  Sugar and Molasses Quality, Handling, Storage and Shipping (AS)
3 credits (3 lecture hours)
Prerequisite: AOM2270C (with a grade of C or higher)
Students will become familiar with the issues involved in the keeping quality, handling and storage of the raw sugar factory products, both sugar and molasses. The concept of raw sugar specifications and contracts are introduced and the importance of meeting these specifications are emphasized, as well as the customer/refiner concerns on sugar and molasses quality.

AOM2273  Basics of Sugar Refining (AS)
3 credits (3 lecture hours)
Prerequisite: AOM2275 (with a grade of C or higher)
Students will become aware of the impact of raw sugar quality on the various operations of the sugar refinery and the critical differences, especially in quality control and food safety issues, between raw and refinery operations.

AOM2275  Material Balance Calculations and Factory Control - 2 (AS)
3 credits (3 lecture hours)
Prerequisite: AOM2271 (with a grade of C or higher)
Students will become familiar with the formal reports created by the chief chemists in the raw sugar mills. They will understand that the reports are used for recording production rates and factory efficiencies, for both individual factory operations and for the overall industry. Students will become familiar with modern computerized reporting systems.
AOM2277  Regulatory and Quality Control (AS)  
3 credits (3 lecture hours)  
Prerequisite: AOM2273 (with a grade of C or higher)  
Students will become aware of the impact of the important external factors that are involved in sugar production operations, especially those involving government regulations. Customer and industry standards are explained and the importance of maintaining an operation that passes government and industry requirements will be stressed.

APA1111  Bookkeeping (AS)  
3 credits (3 lecture hours)  
Application of accounting concepts and procedures in sole proprietorship service and merchandising companies offering: (1) vocational preparation for jobs in accounting, (2) a practical background in accounting for other careers, such as clerical, secretarial, sales and managerial positions and (3) preparation and background for more advanced studies.

APA2172  Computerized Bookkeeping (AS)  
3 credits (3 lecture hours)  
Prerequisites: CGS1100 and (APA1111 or ACG2022)  
An overview of computerized bookkeeping applications software. A computerized bookkeeping program will be used to familiarize the students with the basic support tools available to a full-charge bookkeeper.

ARC1002  Introduction to Architecture (AA)  
3 credits (3 lecture hours)  
For the beginner, an introduction to the world of architecture and its expression of meaning through design. Includes a survey of the role of the architect (past, present and future), and analysis of the scope of the profession and its problems, emphasizing the broad range of physical, cultural and sociological factors that influence it. Serves also as a practical introduction to the pre-architecture program, giving students a verbal and conceptual foundation to navigate the rest of the program at an accelerated pace.

ARC1131C  Architecture Graphics 1 (AA)  
2 credits (1 lecture hour, 2 lab hours)  
This course provides multi-media communication techniques, language, graphics, models, development of explanatory vocabulary, both verbal and visual. Exercises in the graphic simulation of spaces.

ARC1132C  Architecture Graphics 2 (AA)  
2 credits (1 lecture hour, 2 lab hours)  
Control of graphic media and methods of application is emphasized as a basic tool of visual communication. The student concentrates on the use of graphite and ink media in combination with his/her mechanical projections skills. The beginning student using these projections and media skills must be able to represent the basic components of physical environmental objects: mass, space, shape, size, color, texture, pattern, tone, light, movement, ratio, rhythm, and scale.

ARC1301C  Architectural Design 1 (AA)  
4 credits (3 lecture hours, 2 lab hours)  
Corequisite: ARC1131C, ARC1701  
This course provides the first of the four pre-professional architectural design studios. Its purpose is to integrate design thought processes with the creation of two-dimensional and three-dimensional representations (drawings and models). Emphasis is on learning about architectural design ideas and issues, employing effective architectural design processes, and developing one's creativity. The ultimate goal is to create a competitive portfolio of work required for entry into limited access Professional Bachelor of Architecture or Master of Architecture Degree programs.

ARC1302C  Architectural Design 2 (AA)  
4 credits (3 lecture hours, 2 lab hours)  
Prerequisites: ARC1301C, ARC1701; Corequisites: ARC1132C, ARC2201  
This course is the second of the four pre-professional architectural design studios. Its purpose is to continue manipulation of design thought processes with the creation of two-dimensional and three-dimensional representations (drawings and models). Emphasis is on expanding the dialog about architectural design issues in space analysis/synthesis and organization, as well as, the continued development of skills in drawing and model production. The ultimate goal is to create a competitive portfolio of work required for entry into limited access Professional Bachelor or Master of Architecture Degree programs.

ARC1701  History of Architecture 1 (AA)  
3 credits (3 lecture hours)  
This course is a world-wide survey of social, political, material, and cultural factors which have generated distinctive architectural responses (styles) in cultures from pre-history up to the 18th century. Information from this course provides a basis for cross-cultural, architectural comparison/evaluation of the contemporary built environment.
ARC1702  History of Architecture 2 (AA)
3 credits (3 lecture hours)
Prerequisite: ARC1701
This course is a world-wide survey of social, political, material, and cultural factors which have generated distinctive architectural responses (styles) in cultures from the Industrial Revolution (mid-eighteenth century) through the present. Information from this course provides a basis for cross-cultural, architectural comparison/evaluation of the contemporary built environment.

ARC2180CR  Intro to Digital Architecture (AA)
3 credits (1 lecture hour, 4 lab hours)
This is an introductory course that focuses on using computers and software (Autocad, Revit, Rhinoceros and Adobe Suite) to create three-dimensional representations, graphic presentations and layouts. The emphasis is on establishing basic and intermediate level skills for architectural designers to utilize computer software to produce architectural designs and presentations.

ARC2190CR  The Architecture Portfolio (AA)
3 credits (1 lecture hour, 4 lab hours)
Prerequisite: ARC1302C
An introduction to creating, binding and reproducing graphic materials for the process of applying to upper level architecture schools.

ARC2201  Theory of Architecture (AA)
3 credits (3 lecture hours)
Prerequisite: ARC1301C; Corequisite: ARC1302C
This course is a survey of the basic principles, theories, concepts, goals and aspirations of architects and architecture of contemporary times. Information from this course provides the basis for cross-cultural comparison/evaluation of the evolution of contemporary architecture and architectural discourse.

ARC2303C  Architectural Design 3 (AA)
4 credits (3 lecture hours, 2 lab hours)
Prerequisites: ARC1302C, ARC2201(or ARC2212) Corequisite: ARC2461
The third architectural design studio investigates architectural problem solving, design processes, site analysis, form and functional analysis, aesthetic decision making and presentation methodologies. Interpretation of the design idea within precedent, context and contemporary venues is taught. Students give visual and verbal presentations of design work.

ARC2304C  Architectural Design 4 (AA)
4 credits (3 lecture hours, 2 lab hours)
Prerequisites: ARC2303C, ARC2461; Corequisite: ARC2501
This course is the last of the four pre-professional architecture design studios. Its purpose is to summarize and engage the various foundation skills, abilities and understandings from the previous courses with the creation of two-dimensional and three-dimensional representations (drawings and models). Emphasis is on expanding the dialog of architectural design issues in space analysis/synthesis, organization, programming and context, as well as, the role of the architect in theory and practice. The ultimate goal is to create a competitive portfolio of work required for entry into a limited access Professional Bachelor or Master of Architecture Degree program.

ARC2461  Materials and Methods of Construction 1 (AA)
3 credits (3 lecture hours)
Corequisite: ARC2303C
This course is an introduction to the materials and methods of contemporary building construction with emphasis on wood, masonry, concrete and steel. The evaluations of these and other materials and their functional applications, the roles of zoning and building codes, and the importance of details to convey how buildings are put together are stressed. Lab exercises and field trips to building sites and fabricating plants are used to enhance understanding of the subject matter.

ARC2501  Structures (AA)
3 credits (3 lecture hours)
Prerequisite: MAC2233
This course is a basic introduction to the evaluation of structures as applied to architecture. Studies include statics, stress, and the characteristics of beam and column behavior. The student will be encouraged to develop a structural ‘sense’ in creating architectural solutions. Lab assignment reinforces the understanding of the concepts and processes of evaluation.

ARH1000  Art Appreciation (AA)
3 credits (3 lecture hours)
Prerequisite: Non-exempt students must provide appropriate English and reading placement scores or course completion required to enroll in this General Education course.
This course will survey art, architecture, and design from the past and present. Emphasis will be placed on the artist's role in society, and various art media and methods of production. Students will evaluate contextual and cultural factors and their influence on the patronage and production of formal visual languages. (*)
ARH2050  Art History: Ancient to Renaissance (AA)
3 credits (3 lecture hours)
Prerequisite: Non-exempt students must provide appropriate English and reading placement scores or course completion required to enroll in this General Education course.
A comparative exploration of art, architecture, and design from the paleolithic period to the Renaissance. Various art forms will be studied critically with regards to their formal quality as well as the larger context of world events and philosophy. Emphasis will be placed on the artist's role in society. (*)

ARH2051  Art History: Renaissance to Contemporary (AA)
3 credits (3 lecture hours)
Prerequisite: Non-exempt students must provide appropriate English and reading placement scores or course completion required to enroll in this General Education course.
A comparative exploration of art, architecture, and design from the Renaissance to the present. Various art forms will be studied critically with regards to their formal qualities as well as the larger context of world events and philosophy. Emphasis will be placed on the artist's role in society. (*)

ART1201C  Design Fundamentals (AA)
3 credits (2 lecture hours, 2 lab hours)
This course provides basic exploration of the design principles and elements of design, emphasizing the vocabulary of art and technical skill in handling current art tools, and new art tools such as computers and software.

ART1203C  Three-Dimensional Design (AA)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, ART1300C
This is an introductory course in three dimensional visual experiences with emphasis on observing reality using the principles of three-dimensional design. Technical skills utilize sculptural media. Form in space, plane and space, surface and relief and line and point.

ART1205C  Color Design (AA)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, ART1300C
This course is an exploration of color, as an element of design and provides further understanding of the principles of design while working with color. Understanding the nature of color temperature, and principles of composition with emphasis on color theory and the use of color and light in 3D design.

ART1300C  Drawing 1 (AA)
3 credits (2 lecture hours, 2 lab hours)
This is an introductory course in drawing using three dimensional design principles. Emphasis is on articulating 3D illusion on two dimensional surface. Technical skills are developed through various graphic media. Understanding illusion by exploring value changes to achieved form, also creating expressive drawing and balance compositions.

ART1301C  Drawing 2 (AA)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ART1201C, ART1300C
This is an introductory courses in figure drawing in which the student studies skeletal drawing and the muscular composition of the human form. In addition, full color figure drawings in a variety of medium such as Portrait studies are also explored. Drawings exhibit the design concepts learned in ART 1300C. Students develop sensitivity to the page composition and ability to employ the use of negative space.

ART1750C  Ceramics 1 (AA)
3 credits (2 lecture hours, 2 lab hours)
Introduces basic methods of ceramic production in hand building, wheel throwing and glaze application.

ART1751C  Ceramics 2
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ART1750C
Continuation of ART1750C. Basic methods of ceramic production in hand building, wheel throwing and glaze application.

ART2330C  Life Drawing (AA)
3 credits (2 lecture hours, 2 lab hours)
This studio course provides students a thorough understanding of the structure and anatomy of the human figure from an artistic perspective. With this foundation, students render proportion, weight, form and mass of the figure. Drawing skills developed in previous classes are further refined through a variety of dry media.
ART2500C  Painting 1 (AA)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ART1201C, ART1300C  
A beginning college course in painting allows experimentation in oils, acrylics and watercolors. Projects are designed to provide experience in mixing colors, selection and application to surfaces of various types. Exercises are assigned which expand the thinking of the student as relates to the possibilities of creativity through the paint media.

ART2501C  Painting 2 (AA)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ART2500C  
Continuation of ART2500C with further investigation of expression and composition through technical procedures.

ART2502C  Figure Painting (AA)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ART2330C  
The use of the human figure as a subject for painting is covered. The course includes development of a representation of the figure, creation of a design using a relatively flat picture plane, abstraction of the figure and creation of a work more dependent on ideas than on illusions of space.

ART2600C  Digital Imagery for the Fine Artist (AA)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ART1201C  
This course is an AA elective for the Fine Arts program. It focuses on developing students' ability to extend their ideas and formal, aesthetic concerns through the use of digital media. Also, to understand how the computer can be adapted and used in the visual arts, while exploring its graphic capability for artistic endeavor, using graphic manipulation, text and digitizing programs.

ASC1101  Aero-Navigation (AS)  
3 credits (3 lecture hours)  
This is a course for pilots that will introduce them to aviation navigation that includes pilotage, dead reckoning, radio and celestial. It will include the use of serial charts, plotters and navigational procedures.

ASC1210  Aero-Meteorology (AS)  
3 credits (3 lecture hours)  
This is a course for pilots that will introduce them to aviation weather, its hazards, and available FAA services.

ASC1310  Aero-Safety and Regulations (AS)  
3 credits (3 lecture hours)  
This is a course for pilots that will provide an in-depth study of federal aviation regulations and procedures required through the ATP rating. A portion of the time will be spent analyzing aircraft performances related to regulations and safe operating procedures.

ASC1640  Propulsion Systems (AS)  
3 credits (3 lecture hours)  
This is a course for pilots that provides an investigation into the theory of engines and the related equipment, engine construction, and engine operating procedures. Performance diagnosis and principles of safe engine operation are emphasized.

ASC2550  Aerodynamics (AS)  
3 credits (3 lecture hours)  
This is a course for pilots to introduce them to the study of physical flight principles including airflow, airfoils and the production of lift and drag as applied to aircraft performance, stability and control. Special attention is given to high-speed and hovering flight.

AST1002  Descriptive Astronomy (AA)  
3 credits (3 lecture hours)  
Introductory survey of the universe, the solar system, structure and motion of the earth and moon; formation and decay of stars; planetary motion; physical nature of the planets, comets and meteors; basic laws of astronomy, nebulae and galactic structure. Instruction will include lectures, discussion, and observations. (*)

AST1002L  Descriptive Astronomy Lab (AA)  
1 credits (2 lab hours)  
Corequisite: AST1002 (with a grade of C or higher)  
A laboratory in support of an introductory survey of the universe. Includes exercises on the properties of light, optics, laws of planetary motion, stellar and galactic structure, and observation with a telescope. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)
ATF1111-A  Private Pilot Flight 1 - Airplane - Ground (AS)
2 credits (2 lecture hours)
Prerequisite: Acceptance into the Aeronautical Science Flight Training Program; Prerequisite or Corequisite: ATT1100 (with a grade of C or higher); Corequisite: ATF1112 A
This is one of two courses needed to complete the training required by FAR Part 141 for the FAA Private Pilot License. After successfully completing this course and ATF1112 A, the student will have the aeronautical skills and experience for the FAA Private Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private License is a prerequisite for the next flight course.

ATF1112-A  Private Pilot Flight 2 - Airplane - Flight (AS)
2 credits (2 lecture hours)
Prerequisite or Corequisite: ATT1100 (with a grade of C or higher); Corequisite: ATF1111 A
This is two of two courses needed to complete the training required for the FAA Private Pilot License. After successfully completing this course and ATF1111 A, the student will have the aeronautical skills and experience for the FAA Private Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private License is a prerequisite for the next flight course.

ATF1140-A  Private Pilot Flight 1 - Helicopter - Ground (AS)
2 credits (2 lecture hours)
Prerequisite: Acceptance into the Aeronautical Science Flight Training Program; Prerequisite or Corequisite: ATT1100 (with a grade of C or higher); Corequisite: ATF1142 A
This is one of two courses needed to complete the training required by FAR Part 141 for the FAA Private Pilot License. After successfully completing this course and ATF1142 A, the student will have the aeronautical skills and experience for the FAA Private Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private License is a prerequisite for the next flight course.

ATF1142-A  Private Pilot Flight 2 - Helicopter - Flight (AS)
2 credits (2 lecture hours)
Prerequisite or Corequisite: ATT1100 (with a grade of C or higher); Corequisite: ATF1140 A
This is two of two courses needed to complete the training required for the FAA Private Pilot's License. After successfully completing this course and ATF1140 A, the student will have the aeronautical skills and experience for the FAA Private Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private License is a prerequisite for the next flight course.

ATF1150LV  Commercial Pilot Flight 1 - Airplane - Ground (AS)
1 credits (2 lab hours)
Prerequisites: Acceptance into the Aeronautical Science Flight Training Program and FAA Private Pilot License; Prerequisite or Corequisite: ATF1602C (with a grade of C or higher); Corequisites: ATF2250LA, ATF2204CA
This is one of three courses needed to complete the training required by FAR Part 141 for the FAA Commercial Pilot License. After successfully completing this course and ATF2250LA and ATF2204CA, the student will have the aeronautical skills and experience for the FAA Commercial Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Commercial License is a prerequisite for the next flight course.

ATF1342LA  Commercial Pilot Flight 1 - Helicopter - Ground (AS)
1 credits (2 lab hours)
Prerequisites: FAA Private Pilot License and acceptance into the Aeronautical Science Flight Training Program; Prerequisite or Corequisite: ATF1602C (with a grade of C or higher); Corequisites: ATF2240LA, ATF2241 A
This is one of three courses needed to complete the training required by FAR Part 141 for the FAA Commercial Pilot License. After successfully completing this course and ATF2240LA and ATF2241 A, the student will have the aeronautical skills and experience for the FAA Commercial Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Commercial License is a prerequisite for the next flight course.

ATF1602C  Flight Simulator (AS)
3 credits (1 lecture hour, 4 lab hours)
Prerequisites: Acceptance into the Aeronautical Science Flight Training Program
This course is a simulator class that provides flight training required by the FAA for the instrument rating. The student will log 50 hours of instrument training and 10 hours of ground instruction.
ATF2204CA  **Commercial Pilot Flight 3 - Airplane - Flight (AS)**  
2 credits (1 lecture hour, 2 lab hours)  
Prerequisites: FAA Private Pilot's License with Instrument Rating, acceptance into the Aeronautical Science Flight Training Program; Prerequisite or Corequisite: ATT2110 (with a grade of C or higher); Corequisites: ATF1150LV, ATF2250LA  
This is one of three courses needed to complete the training required by FAR Part 141 for the FAA Commercial Pilot License. After successfully completing this course and ATF1150LV and ATF2250LA, the student will have the aeronautical skills and experience for the FAA Commercial Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Commercial License is a prerequisite for the next flight course.

ATF2231C  **Commercial Pilot Flight 1 Additional Rating - Airplane (AS)**  
2 credits (1 lecture hour, 2 lab hours)  
Prerequisites: Acceptance into the Aeronautical Science Flight Training Program, FAA Commercial Pilot Helicopter License, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission  
This is the first of two courses that provides the student with the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Airplane Additional Rating License. After successfully completing this course and ATF2232C, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Airplane Additional Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.

ATF2232C  **Commercial Pilot Flight 2 Additional Rating - Airplane (AS)**  
2 credits (1 lecture hour, 2 lab hours)  
Prerequisites: Acceptance into the Aeronautical Science Flight Training Program, FAA Commercial Pilot Helicopter License, ATF2231C, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission  
This is the second of two courses that provides the student with the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Airplane Additional Rating License. After successfully completing this course and ATF2231C, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Airplane Additional Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.

ATF2240LA  **Commercial Pilot Flight 2 - Helicopter - Cross Country (AS)**  
1 credits (5 lab hours)  
Prerequisites: FAA Private Pilot's License with Instrument Rating and acceptance into the Aeronautical Science Flight Training Program; Corequisites: ATF1342LA, ATF2241A  
This is one of three courses needed to complete the training required by FAR Part 141 for the FAA Commercial Pilot License. After successfully completing this course and ATF1342LA and ATF2241A, the student will have the aeronautical skills and experience for the FAA Commercial Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Commercial License is a prerequisite for the next flight course.

ATF2241-A  **Commercial Pilot Flight 3 - Helicopter - Flight (AS)**  
2 credits (2 lecture hours)  
Prerequisites: FAA Private Pilot's License with Instrument Rating and acceptance into the Aeronautical Science Flight Training Program; Prerequisite or Corequisite: ATT2110 (with a grade of C or higher); Corequisites: ATF1342LA, ATF2240LA  
This is one of three courses needed to complete the training required by FAR Part 141 for the FAA Commercial Pilot License. After successfully completing this course and ATF1342LA and ATF2240LA, the student will have the aeronautical skills and experience for the FAA Commercial Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Commercial License is a prerequisite for the next flight course.

ATF2242LA  **Commercial Pilot External Load Flight - Helicopter (AS)**  
1 credits (2 lab hours)  
Prerequisites: FAA Commercial Pilot License, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission  
This course is an introduction to external load helicopter operations required by FAR Part 141. After successfully completing this course, the student will have aeronautical skills and experience applicable for an external load operator.

ATF2243-A  **Commercial Pilot Turbine Flight - Helicopter (AS)**  
1 credits (1 lecture hour)  
Prerequisites: FAA Commercial Pilot License, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission  
This course is an introduction to turbine helicopter flight required by FAR Part 141. After successfully completing this course, the student will have aeronautical skills and experience applicable for turbine flight operators.
1 credits (1 lecture hours)
Prerequisites: FAA Commercial Pilot License, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission
This course provides the hours needed to meet the requirements of FAR Part 141 night vision goggles flight training. After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the Night Vision Goggles endorsement.

ATF2245CA  Commercial Pilot Additional Rating Flight - Helicopter (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisites: Acceptance into the Aeronautical Science Flight Training Program, FAA Commercial Pilot Airplane License, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission
This course provides the hours needed to meet the requirements of FAR Part 141 FAA Commercial Pilot Helicopter Additional Rating License. After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Helicopter Additional Rating checkride. This course does not include the FAA checkride. It is up to the student to make arrangements necessary to take the checkride with the FAA after completing this course.

ATF2246C  Commercial Pilot Flight 2 Additional Rating - Helicopter (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisites: Acceptance into the Aeronautical Science Flight Training Program, FAA Commercial Pilot Airplane License, ATF2245C, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission
This is the second of two courses that provides the student with the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Helicopter Additional Rating License. After successfully completing this course and ATF2245C, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Helicopter Additional Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.

ATF2250LA  Commercial Pilot Flight 2 - Airplane - Cross Country (AS)
1 credits (4 lab hours)
Prerequisites: FAA Private Pilot License with Instrument Rating and acceptance into the Aeronautical Science Flight Training Program; Corequisites: ATF1602C, ATF1150LV, ATF2204CA
This is two of three courses needed to complete the training required by FAR Part 141 for the FAA Commercial Pilot License. After successfully completing this course and ATF2204CA, the student will have the aeronautical skills and experience for the FAA Commercial Pilot checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Commercial License is a prerequisite for the next flight course.

ATF2300-A  Instrument Rating Flight 1 - Airplane - Ground (AS)
2 credits (2 lecture hours)
Prerequisite: FAA Private Pilot License, acceptance into the Aeronautical Science Flight Training Program; Prerequisites or Corequisites: ATF1602C, ATT2120 (with a grade of C or higher); Corequisite: ATF2302LA
This is one of two courses needed to complete the training required by FAR Part 141 for the FAA Instrument Rating. After successfully completing this course and ATF2302LA, the student will have the aeronautical skills and experience for the FAA Instrument Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private License with an Instrument Rating is a prerequisite for the next flight course.

ATF2302LA  Instrument Rating Flight 2 - Airplane - Flight (AS)
1 credits (2 lab hours)
Prerequisite or Corequisite: ATF1602C (with a grade of C or higher); Corequisite: ATF2300 A
This is two of two courses needed to complete the training required by FAR Part 141 for the FAA Instrument Rating. After successfully completing this course and ATF2300 A, the student will have the aeronautical skills and experience for the FAA Instrument Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private License with an Instrument Rating is a prerequisite for the next flight course.
ATF2340-A Instrument Rating Flight 1 - Helicopter - Ground (AS)
2 credits (2 lecture hours)
Prerequisite: FAA Private Pilot License, acceptance into the Aeronautical Science Flight Training Program; Prerequisites or Corequisites: ATF1602C, ATT2120 (with a grade of C or higher); Corequisite: ATF2341LA
This is one of two courses needed to complete the training required by FAR Part 141 for the FAA Instrument Rating. After successfully completing this course and ATF2341LA, the student will have the aeronautical skills and experience for the FAA Instrument Rating checkride. This course does not include the FAA checkride. It is up to the students to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private Pilot License with an Instrument Rating is a prerequisite for the next flight course.

ATF2341LA Instrument Rating Flight 2 - Helicopter - Flight (AS)
1 credits (2 lab hours)
Prerequisite or Corequisite: ATF1602C (with a grade of C or higher); Corequisite: ATF2340A
This is two of two courses needed to complete the training required by FAR Part 141 for the FAA Instrument Rating. After successfully completing this course and ATF2340A, the student will have the aeronautical skills and experience for the FAA Instrument Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course. However, the FAA Private Pilot License with an Instrument Rating is a prerequisite for the next flight course.

ATF2400LA Commercial Pilot Multi-Engine Flight - Airplane (AS)
1 credits (2 lab hours)
Prerequisites: Commercial Pilot License with Instrument Rating, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission
This course provides the Commercial Pilot, Single Engine rating, the training required for the FAA Commercial Pilot, Multi-Engine rating. After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Commercial Pilot Multi-Engine Rating checkride. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.

ATF2500LA Flight Instructor (Initial CFI) Flight - Airplane (AS)
2 credits (4 lab hours)
Prerequisites: FAA Commercial Pilot License with Instrument Rating, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission; Prerequisite or Corequisite: ATT2131 (with a grade of C or higher)
This course provides the hours needed to meet the requirements of FAR Part 141 FAA Flight Instructor License (Initial CFI). After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Flight Instructor License. This course does not include the FAA checkride. It is up to the student to make arrangements necessary to take the checkride with the FAA after completing this course.

ATF2530LA Flight Instructor Instrument (CFI-I) Flight - Airplane (AS)
1 credits (2 lab hours)
Prerequisites: FAA Commercial Pilot License with Instrument Rating and a Flight Instructor License, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission
This course provides the hours needed to meet the requirements of FAR Part 141 FAA Flight Instructor Instrument Rating (CFI-I). After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Flight Instructor Rating. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.
### ATF2540LA  
**Flight Instructor (Initial CFI) Flight - Helicopter (AS)**

2 credits (4 lab hours)

Prerequisites: FAA Commercial Pilot License with Instrument Rating, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission; Prerequisite or Corequisite: ATT2131 (with a grade of C or higher)

This course provides the hours needed to meet the requirements of FAR Part 141 FAA Flight Instructor License (Initial CFI). After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Flight Instructor License. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.

### ATF2541LA  
**Flight Instructor Instrument (CFI-I) Flight - Helicopter (AS)**

1 credit (2 lab hours)

Prerequisites: FAA Commercial Pilot License with Instrument Rating and a Flight Instructor License, acceptance into the Aeronautical Science Flight Training Program, any PHY prefix course from Natural Sciences - Area IV (with a grade of C or higher), requires department chair permission

This course provides the hours needed to meet the requirements of FAR Part 141 FAA Flight Instructor Instrument Rating (CFI-I). After successfully completing this course, the student will have the aeronautical skills and experience necessary to meet the requirements for the FAA Flight Instructor Instrument Rating and the requirements for the SFAR 73 endorsement. This course does not include the FAA checkride. It is up to the student to make the arrangements necessary to take the checkride with the FAA after completing this course.

### ATT1100  
**Private Pilot Ground School (AS)**

3 credits (3 lecture hours)

This is a course for pilots that includes basic aerodynamics, aircraft performance, aircraft systems and power plants, aviation weather, federal aviation regulations, navigation, flight operations, aeromedical factors, aeronautical decision making, crew resource management, and cross country flight planning. It prepares the student for the FAA Private Pilot Knowledge Test.

### ATT2110  
**Commercial Pilot Ground School (AS)**

3 credits (3 lecture hours)

Prerequisite or Corequisite: ATT2120 (with a grade of C or higher)

This is a course for pilots that includes basic aerodynamics, advanced aircraft performance, aircraft systems and power plants, aviation weather, federal aviation regulations, navigation, flight operations, aeromedical factors, aeronautical decision making, cockpit resource management, multi-engine airplane operation, and advanced cross country flight planning. It prepares the student for the FAA Commercial Pilot Knowledge Test.

### ATT2120  
**Instrument Ground School (AS)**

3 credits (3 lecture hours)

Prerequisite or Corequisite: ATT1100 (with a grade of C or higher)

This is a course for pilots that has an emphasis on instrument navigation, flight procedures, approaches, weather for instrument pilots, advanced aircraft performance, and instrument cross country flight planning. It prepares the student for the FAA Instrument Rating Knowledge Test.

### ATT2131  
**Flight Instructor Ground School (AS)**

3 credits (3 lecture hours)

Prerequisite: Any MAC prefix course from Mathematics - Area III (with a grade of C or higher); Prerequisite or Corequisite: ATT2110 (with a grade of C or higher)

This is a course for pilots that introduces the student to the fundamentals of flight instruction: the learning process, effective teaching methods, critique and evaluation, lesson plans, and psychological behavior. The course prepares the student for the FAA Fundamentals of Instructing and Flight Instructor Knowledge Tests.

### BAN1004  
**Principles of Banking (AS)**

3 credits (3 lecture hours)

This course provides entry level bankers with the information they need to provide effective service to their customers and thereby improve bank profitability, including: how banks affect the economy, the banking business, products and services provided, and how they are provided. Students will understand the interrelationships among bank departments, laws and regulations.

### BCA0340  
**Electrical Apprenticeship 9 (PSAV)**

72 clock hours

This course provides related technical instruction and hands-on application in which students attain basic knowledge of fire alarm systems, application, installation, and the codes and standards. An introduction to instrumentation, process control, telephone writing, and high voltage testing.
BCA0341  Electrical Apprenticeship 10 (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain basic knowledge of air conditioning/refrigeration fundamentals, installation of basic security systems, installing and proper use of Programmable Controllers. Applying the NEC for Code Calculations is also included.

BCA0345-R  Electrical Apprenticeship Co-op 9 (PSAV)
475 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. On-the-job supervision is provided by the respective cooperative teacher and employer. This on-the-job portion of the program may be repeated for credit. Specific job-skills must be identified on a job-skills plan. Selected job-skills will be evaluated a minimum of once during each grading period.

BCA0346-R  Electrical Apprenticeship Co-op 10 (PSAV)
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. On-the-job supervision is provided by the respective cooperative teacher and employer. This on-the-job portion of the program may be repeated for credit. Specific job-skills must be identified on a job-skills plan. Selected job-skills will be evaluated a minimum of once during each grading period.

BCA0350  Apprenticeship in Residential Wiring 1 (First Year - First Course) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain knowledge of the electrical industry, including general job site safety, proper tool identification and use, basic rigging and digging techniques, introductory level construction blueprints and shop math.

BCA0351  Apprenticeship in Residential Wiring 2 (First Year - Second Course (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain knowledge of the electrical industry, including basic knowledge of the National Electrical Code(NEC)and its application to residential wiring, basic knowledge of the various types of standard and special circuits wiring load calculation and installation techniques, selection of conduit, wire, boxes and cable trays.

BCA0352  Apprenticeship in Residential Wiring 3 (Second Year - Second Course ) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain knowledge of the electrical industry, including introductory AC theory, AC circuitry, single and three phase circuitry and systems, generation of AC power, transformers, various AC motors.

BCA0353  Apprenticeship in Electrical Wiring 4 (Second Year - Second Course) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain knowledge of the electrical industry, including theory of basic DC circuits as applied to residential wiring and controls. Math concepts and theory for Ohm's Law, Watts Law, and introduction to Kirchhoff's Law are covered. Series and parallel circuits, magnetism and DC motors/ generators and controls are covered.

BCA0354  Apprenticeship in Electrical Wiring 5 (Third Year - First Course) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain the ability to understand building plans, basic calculations of source and loads, selection of materials, layout and installation of circuits for commercial buildings.

BCA0355  Apprenticeship in Electrical Wiring 6 (Third Year - Second Course) (PSAV)
72 clock hours
This is a related technical instruction and hands-on course in which students attain the ability to understand building plans, basic calculations of source and loads, selection of materials, layout and installation of circuits for commercial buildings.

BCA0356  Apprenticeship in Electrical Wiring 7 (PSAV)
72 clock hours
This course is the first part of a two course sequence dealing with the general principles of motor control and maintenance and AC/DC theory as it relates to motors.

BCA0357  Apprenticeship in Electrical Wiring 8 (Fourth Year-Second Course) (PSAV)
72 clock hours
This course is the second part of a two course sequence dealing with the general principles of motor control and maintenance and AC/DC theory as it relates to motors.
Electrical Apprenticeship Co-op 1 (PSAV)
BCA0358-R
475 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Electrical Apprenticeship Co-op 2 (PSAV)
BCA0359-R
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Electrical Apprenticeship Co-op 3 (PSAV)
BCA0361-R
475 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Electrical Apprenticeship Co-op 4 (PSAV)
BCA0362-R
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Electrical Apprenticeship Co-op 5 (PSAV)
BCA0364-R
475 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Electrical Apprenticeship Co-op 6 (PSAV)
BCA0365-R
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Electrical Apprenticeship Co-op 7 (PSAV)
BCA0367-R
475 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in an occupational field. On-the-job supervision is provided by the respective cooperative teacher and employer. This on-the-job portion of the program may be repeated for credit. Specific job-skills must be identified on a job-skills plan. Selected job-skills will be evaluated a minimum of once during each grading period.

Electrical Apprenticeship Co-op 8 (PSAV)
BCA0368-R
350 clock hours
This course is designed to provide students with realistic on-the-job training experience to acquire and apply knowledge, skills and attitudes in the electrical field. The respective journeyman teacher and employer provide on-the-job supervision. Specific skills are identified on a work process form. The selected job skills are evaluated as the apprentice rotates through various job processes.

Plumber Apprenticeship 1 (First Year-Term A) (PSAV)
BCA0450
72 clock hours
This course provides related technical instruction and hands-on application in which students attain basic knowledge of the essentials of law and careers related to plumbing, various tools, pipes and fittings used in plumbing installation, safety and hazardous materials training; as well a review of basic mathematics and related sciences applied to the plumber's trade.
BCA0451  Plumber Apprenticeship 2 (First Year - Term B) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain basic knowledge of standards of an overview of installation practices of plumbing fixtures, faucets, and valves. Safety and health are emphasized. The student is introduced to blueprint reading and sketching.

BCA0452  Plumber Apprenticeship 3 (Second Year - Term A) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain basic knowledge of classroom instruction, continue plumbing installation techniques including water pipes, distribution systems, water heaters, sewage and drainage fixtures. Applied mathematics continues to build on the concepts covered in the first year courses.

BCA0453  Plumber Apprenticeship 4 (Second Year - Term B) (PSAV)
72 clock hours
This course provides related technical and hands-on application in which students attain knowledge of welding techniques and safety are continued from the previous course including soldering, brazing, and cutting, metal-arc, and Oxy-acetylene welding and pipe tacking. Plumbing installation techniques are continued covering sewage pumps and ejectors, venting and hangers. The scientific concepts of water and pressure are related to plumbing. Rigging and hoisting techniques and safety are reviewed.

BCA0454  Plumber Apprenticeship 5 (Third Year - Term A) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students are introduced to residential and commercial installation of plumbing fixtures and appliances, more on the mathematical concepts commonly used by plumbers, and emphasis on gas codes for installation, inspection, and testing.

BCA0455  Plumber Apprenticeship 6 (Third Year - Term B) (PSAV)
72 clock hours
This course provides related instruction and hands-on course in which students attain basic knowledge of tank capacities, volume and weight of water, sizing storm drains, and piping expansion. Advanced scientific topics related to plumbing trade are covered which include heat transfer, basic electricity, electric current, electrical safety, and electrical troubleshooting. Advanced structural blueprint reading are presented including floor plans, site plans, plumbing, electrical, HVAC, and detail plans.

BCA0456  Plumber Apprenticeship 7 (Fourth Year - Term A) (PSAV)
72 clock hours
This course provides related technical and hands-on course in which students attain basic knowledge of repairing and servicing of residential, commercial, institutional, and industrial fixtures and piping systems. Mathematical concepts are advanced using formulas to calculate pipe and system sizing. Heating systems are covered including hot water boiler, hydronic, warm air, solar, and humidification systems.

BCA0457  Plumber Apprenticeship 8 (Fourth Year - Term B) (PSAV)
72 clock hours
This course provides related technical instruction and hands-on application in which students attain basic knowledge of the science applications related to pumps and pump repair and maintenance. Advanced blueprint reading, sketching, and material take-off and estimating are covered. Plumbing codes are emphasized including regulations regarding sanitary drainage systems, medical facility plumbing, private sewage disposal, portable water supply pump for mobile homes and trailer parks.

BCA0460-R  Plumber Apprenticeship Co-op 1 (PSAV)
475 clock hours
A coordinated work-study program reinforcing the educational and professional growth of students through parallel involvement in classroom studies and field experience is provided. Students and their coordinator determine the objectives for the on-the-job assignment. Students are then evaluated by their immediate supervisor on the accomplishment of the stated objectives.

BCA0461-R  Plumber Apprenticeship Co-op 2
350 clock hours
Continues the field experience part of the Plumber Apprenticeship program. A directed work-study program.

BCA0462-R  Plumber Apprenticeship Co-op 3 (PSAV)
475 clock hours
Continues the field experience of students in the Plumber Apprenticeship program. Coordinated, directed work-study objectives emphasize work safety in caulkling cast iron pipe.

BCA0463-R  Plumber Apprenticeship Co-op 4 (PSAV)
350 clock hours
Completes the second year of the Plumber Apprenticeship program. It continues the directed work-study experience of the apprenticeship introducing drainage piping and blueprint reading and layout.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCA0464-R</td>
<td>Plumber Apprenticeship Co-op 5 (PSAV)</td>
<td>475 clock</td>
<td>Continues the Plumber Apprenticeship program. Venting, pipe cutting,</td>
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<td></td>
<td></td>
<td>hours</td>
<td>reaming, threading and flanging are taught including use of power tools and</td>
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<td>safety.</td>
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<tr>
<td>BCA0465-R</td>
<td>Plumber Apprenticeship Co-op 6 (PSAV)</td>
<td>350 clock</td>
<td>Continues the Plumber Apprenticeship program by providing directed</td>
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<tr>
<td></td>
<td></td>
<td>hours</td>
<td>work-study experience in hot and cold water systems in domestic installations.</td>
</tr>
<tr>
<td>BCA0466-R</td>
<td>Plumber Apprenticeship Co-op 7 (PSAV)</td>
<td>475 clock</td>
<td>Continues the directed work-study portion of the Plumber Apprenticeship</td>
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<tr>
<td></td>
<td></td>
<td>hours</td>
<td>program with emphasis on gas systems applications, safety, and code</td>
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<td>requirements.</td>
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<tr>
<td>BCA0467-R</td>
<td>Plumber Apprenticeship Co-op 8 (PSAV)</td>
<td>350 clock</td>
<td>Final directed work-study sequence in the four-year Plumber Apprenticeship</td>
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<tr>
<td></td>
<td></td>
<td>hours</td>
<td>program. This course trains the student in single fixture and water heater</td>
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<td></td>
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<td></td>
<td>systems installation.</td>
</tr>
<tr>
<td>BCN1003</td>
<td>Construction Calculations (AS)</td>
<td>3 credits</td>
<td>Technical calculations required in &quot;Sustainable Construction&quot; projects are</td>
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<tr>
<td></td>
<td></td>
<td>(3 lecture</td>
<td>recognized and techniques to quantify each are presented, explained,</td>
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<td></td>
<td></td>
<td>hours)</td>
<td>illustrated and practiced. Includes construction and operational problems.</td>
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<tr>
<td>BCN1040</td>
<td>Sustainable Construction Basics (AS)</td>
<td>3 credits</td>
<td>Course will survey various methods and practices of building sustainability</td>
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<td></td>
<td></td>
<td>(3 lecture</td>
<td>practices designed into new buildings. Comparative evaluations of</td>
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<td>hours)</td>
<td>performance results, as &quot;green&quot; building dominates today will be covered.</td>
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<tr>
<td>BCN1210</td>
<td>Building Construction Materials and Methods 1 (AS)</td>
<td>3 credits</td>
<td>Identification of industry standard sources, properties and building</td>
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<td></td>
<td></td>
<td>(3 lecture</td>
<td>materials required for use in residential and commercial construction.</td>
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<td></td>
<td>hours)</td>
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<tr>
<td>BCN1272</td>
<td>Plans Interpretation (AS)</td>
<td>3 credits</td>
<td>Develops ability to read and interpret working drawings and specifications</td>
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<td></td>
<td></td>
<td>(3 lecture</td>
<td>used in the construction industry.</td>
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<td>hours)</td>
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<tr>
<td>BCN2080C</td>
<td>Architectural Drafting and Design 1 (AS)</td>
<td>3 credits</td>
<td>Corequisite: BCN2253C (with a grade of C or higher)</td>
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<tr>
<td></td>
<td></td>
<td>(2 lecture</td>
<td>This course will introduce students to architectural graphic communication</td>
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<td></td>
<td>hours, 2 lab</td>
<td>as well as to the fundamentals of design theory as it applies to human</td>
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<td></td>
<td>hours)</td>
<td>habitation and work relationships. The preliminary design processes, client</td>
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<td>influences on design, basic room relationships, and layouts. Basic plan</td>
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<td>symbols common to the field will be discussed and then applied to the</td>
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<td>design of a one-story residence and a two story light commercial building.</td>
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<td>Presentation floor plan techniques, roof types, materials and plans, and</td>
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<td>presentation elevations will be discussed. Students will prepare</td>
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<td>presentation floor plans and exterior elevation drawings of both a one-story</td>
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<td>residence and a two-story light commercial building, as well as a</td>
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<td>preliminary building section and roof plan of a residential project.</td>
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<tr>
<td>BCN2081C</td>
<td>Architectural Drafting and Design 2 (AS)</td>
<td>3 credits</td>
<td>Corequisite: BCN2259C (with a grade of C or higher)</td>
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<tr>
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<td></td>
<td>(2 lecture</td>
<td>This course continues investigation and development of space-shaping</td>
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<td></td>
<td>hours, 2 lab</td>
<td>language and its inherent structure and process of application. Skills</td>
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<td>hours)</td>
<td>learned in Architectural Drafting and Design 1 are engaged in both analysis</td>
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<td>and design processes, and requirement that materials introduced in</td>
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<td>lectures be furthered investigated through spatial analysis. This course</td>
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<td>will require students to further investigate architectural graphic</td>
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<td>communication as well as to the fundamentals of design theory as it applies</td>
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<td>to human habitation and work relationships.</td>
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<tr>
<td>BCN2220</td>
<td>Building Construction Materials and Methods 2 (AS)</td>
<td>3 credits</td>
<td>Identification and analysis of industry standard sources, properties,</td>
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<td></td>
<td></td>
<td>(3 lecture</td>
<td>building materials, methods and systems required for use in residential and</td>
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<td>hours)</td>
<td>commercial construction.</td>
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</tbody>
</table>
BCN2253C  Architectural Drafting 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Corequisite: ETD1031 (with a grade of C or higher)
Problems in architecture are studied, such as details of footings, foundations, floors, walls, roofs, and openings in masonry and wooden structures. Application is made through projects.

BCN2259C  Architectural Drafting 2 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: BCN2253C (with a grade of C or higher); Corequisite: BCN2081C (with a grade of C or higher)
This course prepares students to do residential, multi-family and small commercial drawings. Problems presented have varied material and structural systems. Emphasis is placed on building codes and costs.

BCN2598  Sustainable Construction Applications (AS)
3 credits (3 lecture hours)
Prerequisite: BCN1040
Course content leads students through each design/build step of a typical residential and commercial building as a means to illustrate rating options within the LEED method of evaluating Green Buildings.

BCN2793  Project Management for Sustainable Construction (AS)
3 credits (3 lecture hours)
This course covers the major components needed to manage a project from inception to completion including estimating, scheduling, logistics, and coordination of materials, labor and sustainable construction processes to meet schedule, LEED and cost objectives. Project management software is utilized.

BCN2941  Building Construction Experience (AS)
4 credits (4 lecture hours)
Prerequisite: Documentation of 4 years of bona fide experience toward journeyman level tradesmanship.
Credit will be given to a person who can document four years of bona fide industry experience in building, drafting and design, building construction technology or journeyman level tradesmanship in building. From workplace experience, identify basic interrelationships of various building practices in the construction industry (design, materials, regulations and contractors). Course credit awarded through prior learning assessment process.

BCT1743  Construction Law (AS)
3 credits (3 lecture hours)
Legal aspects of construction contracts and the responsibilities arising from field operations including relationship of general contractor to owner, architect and subcontractor, material, men and mechanics lien law; bonds; labor law; OSHA; workmen's compensation; taxes; and other statutes and ordinances regulating contractors.

BCT1750  Construction Finance (AS)
3 credits (3 lecture hours)
Building construction financing and related contract requirements includes construction loans, permanent building mortgages, construction bids and contracts, penalty and incentive provisions, progress payments and retention, escalation provision, cost extras, performance and bid bonds, company profits, cash flow, business loans and insurance.

BCT1770  Construction Estimating (AS)
3 credits (3 lecture hours)
This is an analysis and determination of building construction costs. It commences with the classification of materials, labor, and subcontracted work into the smallest manageable units; estimating more advanced elements of building construction, analysis of costs of complicated systems of construction involving commercial building; and including indirect and overhead costs, the preparation of bid proposals and related documents.

BCT2730  Construction Supervision Procedure (AS)
3 credits (3 lecture hours)
This course examines techniques of supervision and management of human and other resources necessary to complete a construction project. Construction industry organization and management structure are discussed in relation to scheduling, material procurement, and equipment management. Human resource topics include labor and human relations, safety, morale, motivation, leadership, delegation of authority in management of skilled and unskilled labor, technical, professional, and administrative personnel.

BCV0001  Core Skills for Security and Automation Systems Technician (PSAV)
150 clock hours
This course is designed to teach entry level job skills. Key content includes: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, Construction Drawings, Basic Rigging, Basic Communication Skills, Basic Employability Skills, and Introduction to Materials Handling.
BCV0002  Introduction to Sustainable Concepts (PSAV)
150 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides introductory coverage of: basic safety, construction math, hand tools, power tools, construction drawings, basic rigging, basic communication skills, basic employability skills, materials handling, and weatherization concepts.

BCV0407  Core Skills for Facilities Maintenance (PSAV)
150 clock hours
This course is designed to teach entry level job skills. Topics include basic math, hand tools, fasteners, communication skills, safety and customer service. Key content includes: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Construction Drawings, Basic Rigging, Basic Communication Skills, Basic Employability Skills, and Introduction to Materials Handling.

BCV0410  Carpentry Skills for Facilities Maintenance (PSAV)
150 clock hours
This course is designed to teach entry level carpentry skills including orientation to the trade; building materials; fasteners and adhesives; hand and power tools; reading plans and elevations; floor systems; wall, ceiling and roof framing; introduction to concrete, reinforcing materials and forms; windows and exterior doors; and basic stair layout.

BCV0440  Application of HVAC Skills and Weatherization for Facilities Maintenance (PSAV)
150 clock hours
This course is designed to teach entry level HVAC and weatherization skills. Introduction to HVAC, trade mathematics, copper and plastic piping practices, soldering and brazing, introduction to cooling and heating, and air distribution systems. Examines economic and environmental effects of the inefficient use of energy in heating and cooling buildings. This course will describe the common ways in which heat is lost and how cold air infiltrates a house.

BCV0460  Electrical Skills, Solar and Blueprint Reading for Facilities Maintenance (PSAV)
150 clock hours
This course is designed to teach entry level electrical skills including orientation to the electrical trade; electrical safety; introduction to electrical circuits, electrical theory, and national electrical code; device boxes; hand bending; raceways and fittings; conductors and cables; basic electrical construction drawings; residential electrical services; and electrical test equipment. This section will also cover blueprint reading which can save a technician hours of troubleshooting by understanding the layout of a facility.

BCV0480  Plumbing Skills and Landscape for Facilities Maintenance (PSAV)
150 clock hours
This course is designed to teach entry level plumbing and landscaping skills. Topics include: basic plumbing tools, plastic pipe, copper tubing, steps for demolition and installation of plumbing utilities. The landscaping section will train the student how to maintain or modify features of an area for the purpose of aesthetics and functionality through grounds keeping and landscaping.

BCV0481  Pest Control, Appliance Repair, NCCER Welding Skills and Surface Treatment for Facilities Maintenance (PSAV)
150 clock hours
This course is designed to teach entry level welding skills, surface treatment, pest control and appliance repair. The course will cover welding safety, base metal preparation, weld quality and SMAW (Shielded Metal Arc Welding). The student will also learn how to treat a structural surface to achieve a professional result using proper surface preparation, tool and material selection, and application. The third section will train the student the safe and proper use of pesticides in a facility and finally, the student will learn how to install and maintain the working order of a variety of appliances used in a facility.

BCV0500  Introduction to Sustainable Plumbing Practices (PSAV)
150 clock hours
Corequisites: BCV0606 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
Provides a history of plumbing and also discusses the current technology, green industries, and associations that make up the modern plumbing profession. This course also provides an overview of the insulation industry, factors to consider when choosing a vocation in the insulation industry, and why insulation is used.

BCV0600  Electrician Helper 1 (PSAV)
150 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to teach entry-level job skills. Topics include concepts of work and energy, electrical terminology, Ohms Law and DC circuitry.
BCV0601 Electrician Helper 2 (PSAV)
150 clock hours
Corequisites: BCV0600 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to teach entry-level job skills. Topics include test equipment, Ohms Law, principles of induction, principles of capacitance, and the principles of magnetism/electromagnetism.

BCV0606 Introduction to Sustainable Electrical Practices (PSAV)
150 clock hours
Corequisites: ETP0450 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
Students will learn how to establish a baseline for energy consumption of the systems and equipment used in a facility. Electrical based concepts incorporate strategies for optimizing building performance. Shop or laboratory activities are an integral part of this program. These activities include instruction in the use of safety procedures and in the care of tools, equipment, materials and processes found in the industry.

BCV0641 Residential Wiring 1 (PSAV)
150 clock hours
Corequisites: BCV0601 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to give students the necessary skills in residential wiring to establish the foundation for becoming an electrical helper. Topics include: 1) Proper use of both hand and power tools, 2) Blueprint reading, 3) Materials identification, 4) Basic residential circuits, 5) Terminology, 6) Wiring techniques, and 7) The National Electric Code (NEC) requirement.

BCV0642 Residential Wiring 2 (PSAV)
150 clock hours
Corequisites: BCV0641 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to give students the necessary skills to perform residential installations. This course provides instruction on wiring techniques learned in the lab that is incorporated in the actual wiring of a building.

BCV0644 Residential Wiring 3 (PSAV)
150 clock hours
Prerequisite: BCV0642 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to give students the necessary skills to perform residential installations. Topics on leadership skills, teamwork, and management are also reviewed. This course provides instruction on wiring techniques learned in the lab that is incorporated in the actual wiring of a building.

BCV0655 Commercial Wiring 3 (PSAV)
150 clock hours
Prerequisite: BCV0661 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to give students the necessary skills to perform commercial installations including 3-phase receptacle circuits and emergency lighting systems. This course provides instruction in wiring techniques learned in the lab which are incorporated in the actual wiring of a building.

BCV0660 Commercial Wiring 1 (PSAV)
150 clock hours
Corequisites: BCV0642 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to give students the necessary skills to function in the commercial electrical installation environment. Topics include: 1) Commercial circuit requirements, 2) NEC requirements, 3) Conduit bending experience, 4) Conduit installations, 5) Commercial lighting systems, and 6) Site plans and interpretation.

BCV0661 Commercial Wiring 2 (PSAV)
150 clock hours
Corequisites: BCV0660 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course is designed to give students the necessary skills to perform commercial installations. This course provides instruction in wiring techniques learned in the lab which are incorporated in the actual wiring of a building.

BCV0811 Level 1 Security and Automation Systems Technician (PSAV)
150 clock hours
This course is designed to teach entry level skills in low voltage cabling relative to the following topics: Introduction to the Trade, Wood and Masonry Construction Methods, Concrete and Steel Construction Methods, Pathways and Spaces, Craft-Related Mathematics, Hand Bending of Conduit, Introduction to the National Electrical Code and Low-Voltage Cabling.
BCV0812  Level 2 Security and Automation Systems Technician (PSAV)
150 clock hours
This course is designed to teach electrical skills relative to the following topics: Orientation to the Electrical Trade, Electrical Safety, Introduction to Electrical Circuits, Electrical Theory, Introduction to the National Electrical Code, Conductors and Cables, Basic Electrical Construction Drawings and Electrical Test Equipment. This section will also cover blueprint reading which can save a technician hours of troubleshooting by understanding the layout of a facility.

BCV0813  Level 3 Security and Automation Systems Technician (PSAV)
150 clock hours
This course is designed to teach entry level electrical skills relative to networks, fiber optics, site surveys, crew leadership and maintenance of low voltage systems.

BCV0814  Level 4 Security and Automation Systems Technician (PSAV)
150 clock hours
This course is designed to teach entry level electrical skills in audio systems, video, broadband, media management and telecommunications.

BCV0815  Level 5 Security and Automation Systems Technician (PSAV)
150 clock hours
This course is designed to teach entry level electrical skills relative to residential and commercial building networks, intrusion detection, fire alarms, nurse call systems and CCTV.

BCV0816  Level 6 Security and Automation Systems Technician (PSAV)
60 clock hours
This course is designed to teach entry level electrical skills relative to hands-on applications of security and automation systems.

BCV0830  Alternative Energy (PSAV)
150 clock hours
Corequisites: BCV0002 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course identifies the need for alternative energy development. Describes the contribution and potential of individual alternative energy sources such as biomass/biofuels, nuclear power, solar power and wind power. Shop or laboratory activities are an integral part of this course. These activities include instruction in the use of safety procedures and in the care of tools, equipment, materials and processes found in the industry.

BOT1010  General Botany (AA)
3 credits (3 lecture hours)
This course provides an introductory survey of plant science where students will learn the main points of plant structure and function, plant classification and naming, plant-related vocabulary, the plant life cycle, floral biology, major plant groups with examples from local and everyday plants, and plant ecology. (*)

BOT1010L  General Botany Lab (AA)
1 credits (2 lab hours)
This course provides an introductory survey of plant science where students will learn the main points of plant structure and function, plant classification and naming, plant-related vocabulary, the plant life cycle, floral biology, major plant groups with examples from local and everyday plants, and plant ecology. (*)

BOT2000  Plant Physiology (AS)
3 credits (3 lecture hours)
Plant physiology offers students a broad survey of physiological processes and responses of flowering plants to the environment. Water relations, mineral nutrition, photosynthesis, respiration and growth are emphasized.

BSC1005  Concepts in Biology (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course. For non-science and elementary education majors only. This course is designed to give students an understanding of the major biological concepts. Lectures and discussions focus on how and understanding of biological concepts is relevant to environmental, social and ethical issues. Note: This course cannot be used to satisfy degree requirements by students who already have credit in BSC1010. (*)

BSC1005L  Concepts in Biology Lab (AA)
1 credits (2 lab hours)
Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course. Laboratory studies for non-science and education majors. Topics covered will include osmosis and diffusion, chemical composition of foodstuffs, enzyme activity, biological diversity, and human genetics. (*)
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
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<tbody>
<tr>
<td>BSC1010</td>
<td>Principles of Biology 1 (AA)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course; Corequisite: BSC1010L (with a grade of C or higher)</td>
<td>An introduction to biology, cellular biology, biochemistry, genetics, and evolution is provided. This course is intended for science and pre-professional majors. Students planning to take BSC1011 and BSC1011L must take both BSC1010 and BSC1010L. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)</td>
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<tr>
<td>BSC1010L</td>
<td>Principles of Biology 1 Lab (AA)</td>
<td>1</td>
<td>3</td>
<td></td>
<td>Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course; Corequisite: BSC1010 (with a grade of C or higher)</td>
<td>Laboratory studies in biochemistry, physiology, genetics, cell biology, and other related topics will be emphasized. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)</td>
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<tr>
<td>BSC1011</td>
<td>Principles of Biology 2 (AA)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Prerequisites: BSC1010, BSC1010L (with a grade of C or higher); Corequisite: BSC1011L (with a grade of C or higher)</td>
<td>This course is the second of a two-semester sequence introducing science and pre-professional majors to biological principles including a study of the five kingdoms, population dynamics and ecology. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)</td>
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<tr>
<td>BSC1011L</td>
<td>Principles of Biology 2 Lab (AA)</td>
<td>1</td>
<td>3</td>
<td></td>
<td>Prerequisites: BSC1010, BSC1010L (with a grade of C or higher); Corequisite: BSC1011 (with a grade of C or higher)</td>
<td>This course is the laboratory component of the second of a two-semester sequence introducing science and pre-professional majors to biological principles including the five kingdoms, population dynamics and ecology. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)</td>
</tr>
<tr>
<td>BSC1404C</td>
<td>Introduction to Biotechnological Methods (AS)</td>
<td>5</td>
<td>3 (lecture hours), 6 (lab hours)</td>
<td></td>
<td>Prerequisites: Enrollment in Palm Beach County School District's Biotechnology Academies, completion of Biotec 1, 2, and 3 high school courses and department challenge exam completed with 80% pass rate.</td>
<td>This course builds upon the concepts taught in Introduction to Biotechnology and teaches basic concepts and techniques necessary to work effectively in a biotechnology laboratory. The nature of science, lab work, and the role of the biotechnician will be discussed. Basic skills learned include: following procedures and keeping records; laboratory safety procedures for biological, chemical, and radiological hazards; laboratory mathematics and measuring; preparing solutions; and basic techniques used in separating biomolecules. Students will develop confidence in their ability to work safely with basic biotech lab instruments. Course credit awarded through prior learning assessment process.</td>
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<tr>
<td>BSC2085</td>
<td>Anatomy and Physiology 1 (AA)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course; Corequisite: BSC2085L (with a grade of C or higher)</td>
<td>An introduction to the structure and functions of the human body is provided. Topics include chemistry, histology, and study of the integumentary, skeletal, muscular and nervous systems. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)</td>
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<tr>
<td>BSC2085L</td>
<td>Anatomy and Physiology 1 Lab (AA)</td>
<td>1</td>
<td>3</td>
<td></td>
<td>Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course; Corequisite: BSC2085 (with a grade of C or higher)</td>
<td>This laboratory accompanies BSC2085. This course provides an introduction to the structure and functions of the human body. Topics cover histology and study of the integumentary, skeletal, muscular and nervous systems. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)</td>
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</tbody>
</table>
BSC2086  Anatomy and Physiology 2 (AA)
3 credits (3 lecture hours)
Prerequisite: BSC2085, BSC2085L (with a grade of C or higher); Corequisite: BSC2086L (with a grade of C or higher)
A continuation of BSC2085, the circulatory, endocrine, digestive, excretory, respiratory, and reproductive systems of the body are studied. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

BSC2086L  Anatomy and Physiology 2 Lab (AA)
1 credits (3 lab hours)
Prerequisites: BSC2085, BSC2085L (with a grade of C or higher); Corequisite: BSC2086 (with a grade of C or higher)
This laboratory accompanies BSC2086. It is an introduction to the structure and functions of the human body. Topics cover histology and study of digestive, cardiovascular, respiratory, urinary, and reproductive systems. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

BSC2416C  Introduction to Tissue Culture Lab (AA)
2 credits (1 lecture hour, 3 lab hours)
Prerequisites: BSC1010, BSC1010L, BSC2421, BSC2421L (with a grade of C or higher)
Introduction to Tissue Culture is a course designed to provide students with hands-on experience in the proper laboratory methodology and techniques associated with various cell and tissue cultures. The purpose of this course is to introduce students to the components of a tissue culture laboratory (equipment, instruments, etc.) and provide them with a basic understanding of the proper use and care of these components. Students will be exposed to various cell culture lines and learn how to handle and maintain different cells, prepare various media solutions, carry out general tissue culture assays (such as transfections) and perform a batch scale-up of cells using bioreactors.

BSC2420  Biotechnology 1 (AA)
3 credits (3 lecture hours)
Prerequisites: BSC1010, BSC1010L, BSC2421, BSC2421L, CHM1045, CHM1045L (with a grade of C or higher); Corequisites: BSC2420L, CHM1046, CHM1046L (with a grade of C or higher)
This lecture course focuses on recombinant DNA technology, genetic engineering and the molecular nature of genes and gene function. It covers DNA and RNA structure, genes and chromosomes, DNA replication and repair, genetics, and protein translation in prokaryotes and eukaryotes. Application of modern biotechnology will be emphasized, including plasmids, enzymes, genetic transformation, microarrays, DNA sequencing, RNAi, stem cells, and regenerative medicine. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both.) Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.

BSC2420L  Biotechnology 1 Lab (AA)
2 credits (6 lab hours)
Prerequisites: BSC1010, BSC1010L, BSC2421, BSC2421L, CHM1045, CHM1045L (with a grade of C or higher); Corequisites: BSC2420, CHM1046, CHM1046L (with a grade of C or higher)
This course provides a deep exploration of the basic foundations of molecular biotechnology with an emphasis on molecular biology and genomics, which include gene and genome structure and function. Students will explore methods of DNA and RNA extraction and quantification, as well as plasmid transformation, PCR, QPCR, cloning, DNA sequencing, plate-based assays, and various types of laboratory equipment and software. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both.) Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.

BSC2421  Introduction to Biotechnology (AA)
3 credits (3 lecture hours)
Recommended Prerequisites: BSC1010, BSC1010L, CHM1045, CHM1045L (with a grade of C or higher); Corequisite: BSC2421L (with a grade of C or higher)
This lecture course provides a comprehensive approach to the historical and current concepts of biotechnology. It introduces principles of genomics and proteomics with emphasis on the molecular biology aspects of genetic engineering and recombinant DNA technology. The course covers biotechnology product development, funding, regulation, and clinical testing. Legal, ethical and social issues will be discussed surrounding stem cells, GMOs, gene therapy, and cloning. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both.) Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)
BSC2421L  Introduction to Biotechnology Lab (AA)
2 credits (6 lab hours)
Recommended Prerequisites: BSC1010, BSC1010L, CHM1045, CHM1045L (with a grade of C or higher); Corequisite: BSC2421 (with a grade of C or higher)
This laboratory course provides hands on experience for basic and common biotechnology laboratory techniques in the areas of laboratory safety, aseptic techniques, measurements, calculations, preparation of solutions, use of pH meters, spectrophotometers, centrifuges, etc., as well as training in specific biotechnology techniques, including DNA extraction and amplification, plasmid transformation, agarose gel electrophoresis, preparation of LB broth and agar plates and restriction digestion of DNA. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both.) Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

BSC2426C  Introduction to Biotechnology Instrumentation Lab (AA)
2 credits (1 lecture hour, 3 lab hours)
Prerequisites: BSC1010, BSC1010L, BSC2421, BSC2421L (with a grade of C or higher); Recommended Corequisites: CHM1046, CHM1046L (with a grade of C or higher)
This course is designed to provide hands-on experience in basic and essential instrumentation skills required in chemistry, molecular biology and biotechnology. Students will learn the basics of laboratory safety, aseptic technique, measurements and calculations and preparation of solutions/samples. This knowledge will then be applied to advanced instrumentation utilizing spectrophotometers, centrifuges, thermal cyclers, automated DNA sequencing by PAGE, GC/MS, FPLC, and bioreactors. Students will also gain a well-rounded understanding of the maintenance of these various instruments, from ordering supplies to requesting technical support and daily/monthly maintenance.

BSC2427  Biotechnology 2, Molecular Biology, Cell and Immunobiology (AA)
3 credits (3 lecture hours)
Prerequisites: BSC2420, BSC2420L, CHM1046, CHM1046L (with a grade of C or higher); Corequisites: BSC2427L, CHM2210, CHM2210L (with a grade of C or higher)
This lecture course focuses on proteomics, which is the study of proteins. It builds upon the foundation set in Intro to Biotech and Biotech 1. This course will include a study of amino acids, protein structure and the role of proteins in molecular biology and biotechnology. The applications of proteins in industry, medicine, pharmacology, immunology and agriculture will be emphasized. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both.) Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.

BSC2427L  Biotechnology 2, Molecular Biology, Cell and Immunobiology Lab (AA)
2 credits (6 lab hours)
Prerequisites: BSC2420L, BSC2420L, CHM1046, CHM1046L (with a grade of C or higher); Corequisites: BSC2427, CHM2210, CHM2210L (with a grade of C or higher)
This course provides a deep exploration of the basic foundations of molecular biotechnology, specifically proteomics, which is the study of protein structure, isolation, identification and purification. Students will explore areas of biomedical biotechnology, such as immunobiological assays and methods of protein separation, quantification and identification. The application of protein fingerprinting and enzyme kinetics also will be addressed. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both.) Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.

BSC2435  Introduction to Bioinformatics (AA)
1 credits (1 lecture hours)
Prerequisites: BSC2421, BSC2421L (with a grade of C or higher)
Current topics in bioinformatics and computational biology. Includes methods for high throughput data collection, storing, and accessing biological data. Covers programs and algorithms used to analyze data.

BSC2945C  Biotechnology Internship (AA)
2 credits (1 lecture hour, 10 lab hours)
Prerequisites: BSC2427, BSC2427L, CHM2210, CHM2210L (with a grade of C or higher); Corequisites: CHM2211, CHM2211L (with a grade of C or higher)
This is a practical application of procedures in the real world settings with biotechnology and closely related disciplines. This experience will allow the student to perform hands-on work and observation of biotechnology in institutions directly or indirectly related to the field, which includes but is not limited to academic, governmental, private industry or research oriented institutions and others with similar experiences.

BUL2241  Business Law 1 (AA)
3 credits (3 lecture hours)
This is an introductory course on the fundamental concepts of law in society and the business environment. Topics include state and federal court systems, common statutory law, administrative procedures and constitutional law with emphasis on torts, contracts, bailments, and sales (warranties and liabilities).
### BUL2242  Business Law 2 (AA)
3 credits (3 lecture hours)
Continuation of BUL2241 includes negotiable instruments (checks, drafts and notes), principal and agent, business associations (including proprietorships, partnerships and corporations), debtor-creditor relationships and real and personal property.

### BUL3130  Legal and Ethical Environment of Business (BAS)
3 credits (3 lecture hours)
Prerequisite: Admission to the BAS Supervision and Management program or consent of the department
The course includes issues such as: contracts, torts, legal/political/economic aspects of ethics and the law, antitrust law, employment law, administrative law, securities law, and international business law topics.

### CCJ1010  Introduction to Criminology (AA)
3 credits (3 lecture hours)
Examines four interrelated areas: (1) history of criminology/development of criminology; (2) causes of criminal behavior; (3) ways of defining and measuring crime and criminality; (4) methods for testing, examining, construction and criticizing criminological theories.

### CCJ1020  Administration of Criminal Justice (AA)
3 credits (3 lecture hours)
This course provides an overview of the criminal justice administration system. The emphasis is on due process, justice and Constitutional guarantees, civil rights and those incarcerated at various levels.

### CCJ1618  Criminal Psychology (AA)
3 credits (3 lecture hours)
Criminal Justice is all about human behavior, and behavioral science has always sought to understand the "criminal mind." This course introduces students to the theory and practice of modern criminal psychology. Students will understand the major theories and models of criminal behavior and the major classes of psychopathology that are associated with criminal activity. These insights are then applied to the major crime classifications to form an integrative model of criminal psychology. Students will learn how this model is applied to the practical work of law enforcement and criminal justice professionals who investigate, prosecute, and adjudicate crimes involving questions of choice, action, free will, mental status and mental disorder.

### CET2123C  Microprocessors 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: EET1215C or EET1084C (with a grade of C or higher)
This course teaches the principles of digital electronics technology. It introduces the microprocessor and its basic programming languages and techniques. Introduces the concept of electronic memory and the most common devices to store it.

### CET2127C  Microprocessors 2 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: CET2123C
This course studies microprocessors applications, with emphasis in Programmable Logic Controllers (PLC’S) and Distributed Control Systems (DCS’s).

### CGS1030  PC Starter (AS)
1 credits (1 lecture hours)
Introduces the computer novice to the personal computer (PC) designed to familiarize students with the keyboard, disks, printers, Windows and the major application software packages. A number of practical problems are solved during hands-on laboratory sessions.

### CGS1100  Microcomputer Applications (AA)
3 credits (3 lecture hours)
Prerequisite: None (Knowledge of the keyboard is desirable).
This course will enable students to utilize common microcomputer hardware and software typically used in the workplace. Practical hands-on assignments in the areas of word processing, spreadsheet, database, and presentation graphics, as they apply to the workplace, will be explored in the course.

### CGS1513  Electronic Spreadsheets (AS)
3 credits (3 lecture hours)
This course provides to utilize electronic spreadsheet software typically used in the workplace. Practical hands-on assignments in the areas of spreadsheet design and implementation, as they apply to the workplace, will be explored in the course.

### CGS1543  Database Management (AS)
3 credits (3 lecture hours)
Prerequisite: CGS1100 or CGS1513
This course provides hands-on training in the use of a popular database program. Students will learn introductory through advanced database concepts.
CGS1561  Inside the PC (AS)  
1 credits (1 lecture hours)  
Designed for a non-technical approach to initially installing a personal computer and how to keep the system running efficiently throughout its life-cycle including maintaining the system, diagnosing common hardware problems, installing new software packages, and upgrading the hardware.

CGS1800  Introduction to Web Site Development (AS)  
3 credits (3 lecture hours)  
Corequisite: CGS1100  
This class covers many issues in the creation of a business web site. This includes writing a business model and planning, organizing content, and marketing the web site. The securing of transactions and available payment systems will also be examined. The student will become familiar with technologies that are used to create business web sites.

CGS2555  Introduction to the Internet (AA)  
3 credits (3 lecture hours)  
Corequisite: CGS1100  
This course provides the digital information to work and study in contemporary society by understanding the electronic communications. Students will learn how to get connected to the Internet, perform research via the Internet and create a personal Web page.

CGS2801  Advanced Web Page Media (AS)  
3 credits (3 lecture hours)  
Corequisite: CGS1800 or COP2822  
Students will use a variety of advanced applications and technologies related to the production of professional, interactive Web pages that include images, animation, sound, and video. This course will have students work with software for advanced Web page media design.

CGS2802  Web Site Administration (AS)  
3 credits (3 lecture hours)  
Prerequisite: CNT2000  
This course will cover the installation of Windows and Linux servers and the installation, configuration, and administration of Internet Information Services (IIS) and Apache Web server, Microsoft SQL Server and MySQL Database Management Systems, and the email servers Microsoft Exchange Server, and send mail.

CHD1220  Child Development, Infancy/Preschool (AS)  
3 credits (3 lecture hours)  
Explores parenting in relation to fulfilling children's needs, child development and growth of the infant and preschool child; and covers emotional, intellectual, physical and social development; stages of childhood; communication process between adult and child; guidance approaches; health and safety; family structures; issues affecting the child and family; and community resources which provide parent education, family and children services and other related resources.

CHM1025  Introductory Chemistry (AA)  
3 credits (3 lecture hours)  
Corequisite: MAT1033C (with a grade of C or higher)  
This course is designed for students with no high school chemistry or whose preparation in secondary school chemistry is such that they need a preliminary course for general Chemistry 1, CHM1045. Course topics include: chemical measurements and conversions, matter, atomic structure, chemical bonding, formula writing, naming inorganic compounds, stoichiometry, and ideal gases. Students are strongly encouraged to take the on-line chemistry placement test to determine their accurate course registration for CHM1025 or CHM1045. You will need a calculator when taking the test. No record of the results are kept. The test is used purely for self-placement. Students who are unable to pass the chemistry placement test are strongly encouraged to enroll in CHM1025. (*)

CHM1032  Principles of Chemistry (AA)  
3 credits (3 lecture hours)  
Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course; Recommended Corequisite: CHM1032L (with a grade of C or higher)  
This course provides an introduction to principles of chemistry for students not needing an intensive course. It covers important concepts of general chemistry and progresses through elementary organic chemistry into certain areas of biochemistry and is designated for Nursing and other Allied Health students. (*)
CHM1032L  Principles of Chemistry Lab (AA)
1 credits (2 lab hours)
Prerequisite: Appropriate math, English and reading placement scores or course completion required to enroll in this course;
Recommended Corequisite: CHM1032 (with a grade of C or higher)
This course is a study of metric measurements, physical and chemical properties, elements and compounds and laboratory
  techniques and skills. (*)

CHM1045  General Chemistry 1 (AA)
3 credits (3 lecture hours)
Prerequisite: MAT1033C (with a grade of C or higher); Corequisites: CHM1045L, MAC1105 (with a grade of C or higher)
This course is a part of the chemistry sequence CHM1045 and CHM1046. The content of this portion of the sequence is kinetic-
molecular treatment of gases, liquids and solids; the structure of the atom; interatomic forces-chemical bonding, molecular
geometry; correlation of structure with properties; nomenclature, quantitative relationships in chemical reactions; formulas and
equations; the concept of oxidation reduction reactions. In a lecture science course where there is a required co-requisite lab,
students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both).
Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

CHM1045L  General Chemistry 1 Lab (AA)
1 credits (3 lab hours)
Corequisite: CHM1045 (with a grade of C or higher)
The course covers introduction to basic lab safety and fundamental techniques of general chemistry: separation, filtration,
carrying out simple reactions, titrations, etc. In a lecture science course where there is a required co-requisite lab, students may
withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be
allowed to withdraw from the lecture and remain enrolled in the lab. (*)

CHM1046  General Chemistry 2 (AA)
3 credits (3 lecture hours)
Prerequisites: CHM1045, CHM1045L, MAC1105 (with a grade of C or higher); Corequisite: CHM1046L (with a grade of C or
higher)
This course is the second part of general chemistry sequence CHM1045 and CHM1046. This portion of the sequence covers
solutions; thermodynamics; electrolytic solutions; rates of reactions and chemical kinetics; chemical equilibrium; electrochemistry;
descriptive chemistry. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab
class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw
from the lecture and remain enrolled in the lab. (*)

CHM1046L  General Chemistry 2 Lab (AA)
1 credits (3 lab hours)
Prerequisite: CHM1045L (with a grade of C or higher); Corequisite: CHM1046
Laboratory portion of Organic Chemistry 1. Experiments on thermochemistry, acid base reactions, titrations, etc. will be carried out.
In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the
lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and
remain enrolled in the lab. (*)

CHM2210  Organic Chemistry 1 (AA)
3 credits (3 lecture hours)
Prerequisites: CHM1046, CHM1046L (with a grade of C or higher); Corequisite: CHM2210L First of a two-semester sequence
covering fundamental concepts, nomenclature, synthesis and reactions of classes of organic compounds, with emphasis on
molecular structure and reaction mechanisms. In a lecture science course where there is a required co-requisite lab, students
may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will
not be allowed to withdraw from the lecture and remain enrolled in the lab.

CHM2210L  Organic Chemistry 1 Lab (AA)
1 credits (4 lab hours)
Prerequisites: CHM1046, CHM1046L (with a grade of C or higher); Corequisite: CHM2210
Laboratory portion of Organic Chemistry 1. Introduction of organic laboratory principles and techniques: vacuum filtration;
recrystallization; extraction; distillation; and chromatography. In a lecture science course where there is a required co-requisite
lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both).
Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.
CHM2211  Organic Chemistry 2
3 credits (3 lecture hours)
Prerequisite: CHM2210; Corequisite: CHM2211L
Continuation of CHM2210. The study of NMR aromatic compounds and other compounds containing oxygen and nitrogen. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.

CHM2211L  Organic Chemistry 2 Lab (AA)
1 credits (4 lab hours)
Prerequisites: CHM2210, CHM2210L; Corequisite: CHM2211
This course is a continuation of CHM2210L with more complex synthesis and introduction to IR and gas chromatography. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab.

CIS2321  Systems and Applications (AS)
3 credits (3 lecture hours)
Corequisite: CGS1100
Utilize system analysis techniques for the solution of business and information systems problems. A team approach is stressed throughout the course of study. Major topics include methods of system investigation, input/output design, system documentation, communication, system implementation, security, hardware selection and software selection. A case-study approach is utilized.

CIS2513  Information Technology Project Management (AS)
3 credits (3 lecture hours)
Prerequisite: CGS1100
This course is a study of basic project management process and relevant activities. The course introduces the fundamental aspects of project management to include project definition, planning, execution, and delivery. There will be ample case studies that will promote student understanding and appreciation of the theory and practice of project management. The course material will address issues faced by today's project manager and is intended to teach students how to develop approaches and styles of management for software projects.

CIS2940-A  Computer Technology Internship A (AS)
3 credits (15 lab hours)
Prerequisite: COP1000 or CNT2000
This internship computer course provides students with career-related work experience with a company or organization and meaningful exposure to a professional, college-level career field. This course can be repeated for credit under the number CIS2940 B and CIS2940 C for a total of three times.

CIS2940-B  Computer Technology Internship B (AS)
3 credits (15 lab hours)
Prerequisite: COP1000 or CNT2000
This internship computer course provides students with career-related work experience with a company or organization and meaningful exposure to a professional, college-level career field. This course can be repeated for credit under the number CIS2940 A and CIS2940 C for a total of three times.

CIS2940-C  Computer Technology Internship C (AS)
3 credits (15 lab hours)
Prerequisite: COP1000 or CNT2000
This internship computer course provides students with career-related work experience with a company or organization and meaningful exposure to a professional, college-level career field. This course can be repeated for credit under the number CIS2940 A and CIS2940 B for a total of three times.

CJB1465  Injury and Death Investigation (AS)
3 credits (3 lecture hours)
Corequisites: CJB1711, CJB1712
This course exposes the student to the identification of injuries, wounds and disease that are responsible for death or serious injury. Also covered are the role and responsibility of the Medical Examiners Office, and the diagnosis of cause and manner of death. Mass disaster human identification protocols and legal standards to include chain of custody procedures.
CJB1711  **Introduction to Crime Scene Technology (AS)**
3 credits (3 lecture hours)
Corequisites: CJB1465, CJB1712
This course is an introductory course in crime scene investigation techniques. Emphasis is placed upon recording the crime scene, collecting and preserving physical evidence, and the examination of evidence. Employment of those techniques available to the crime scene investigator also will be demonstrated.

CJB1712  **Crime Scene Photography 1 (AS)**
3 credits (3 lecture hours)
Corequisites: CJB1465, CJB1711
This course includes basic crime scene photography skills including camera operation and exposure control, proficiency in relational photos and flash control for crime scene and evidentiary documentation. This class also includes videography.

CJB1721  **Advanced Crime Scene Technology (AS)**
3 credits (3 lecture hours)
Prerequisites: CJB1465, CJB1711, CJB1712
This course includes advanced principles, theories and applications in crime scene technology. Specialized collection procedures of weapons, traffic crash evidence, arson, gunshot residue, blood spatter and recovery of buried bodies and surface skeletons. Also included, data analysis and plan of action development are emphasized.

CJB1722  **Crime Scene Photography 2 (AS)**
3 credits (3 lecture hours)
Prerequisite: CJB1465, CJB1711, CJB1712
This course expands upon the concepts, knowledge and skills taught in Crime Scene Photography 1 to include specialty light sources, darkroom techniques and procedures, filters and specialized equipment including black and white and computer development techniques.

CJB2703  **Crime Scene Safety (AS)**
2 credits (2 lecture hours)
Prerequisites: CJB1721, CJB1722, CJB2735
This course covers potential health and safety hazards one will encounter at a crime scene. The course will also introduce the proper protective techniques to minimize risk to self and others. Emergency procedures and state and federal regulations are included.

CJB2704  **Courtroom Presentation of Scientific Evidence (AS)**
3 credits (3 lecture hours)
Prerequisite: CJB2703
This course covers dress, grooming, speaking, listening and stress control during courtroom proceedings. Visual aid preparation and presentations of all evidence (commonly referred to as "scientific evidence") collected at the crime scene are also included. The course will utilize the rules of evidence for the state of Florida and Federal courts. Mock trial exercises will be used.

CJB2713  **Introduction to Forensic Science (AA)**
3 credits (3 lecture hours)
This course exposes the student to the capabilities and functions of a full service crime laboratory. Also covered is evidence selection and submission to the crime lab in accordance with established standards and legal requirements including chain of custody.

CJB2735  **Fingerprint Classification (AS)**
3 credits (3 lecture hours)
Prerequisites: CJB1465, CJB1711, CJB1712
This course teaches the Henry modified system and NCIC system of fingerprint classification and prepares the student for a position as a fingerprint examiner.

CJB2736  **Latent Fingerprint Development (AS)**
3 credits (3 lecture hours)
Prerequisite: CJB2703
This course provides the techniques involved in detection, enhancement and recovery of latent fingerprints from physical evidence. Chemical and mechanical methods and surfaces will be analyzed and evaluated for proper application in both theory and practice. Emphasis will be placed on the comparison of latent prints to fingerprint standards.

CJB2748  **Biological Evidence (AS)**
2 credits (2 lecture hours)
Prerequisite: CJB2703
This course exposes the student to the forensic value, handling, preservation, testing and documentation of biological evidence. This course also addresses safety issues involved in handling biological evidence.
CJE1300  Police Administration 1 (AA)
3 credits (3 lecture hours)
This course provides administrative activity of a modern police department including administration, budget, records, support services, recruitment, supervision, human resource evaluation, discipline, planning, training, accreditation and standards.

CJE1301  Police Administration 2 (AA)
3 credits (3 lecture hours)
Prerequisite: CJE1300
This course provides law enforcement operations with emphasis in examining the operations and administration of components such as patrol, communications, juvenile justice, organized crime, narcotics, crime against persons and property, community policing and detective divisions. Specialized divisions such K-9, mounted, special weapons and tactical (SWAT) and homeland security will also be discussed.

CJE1711  Criminal Justice Capstone Course (AS)
3 credits (3 lecture hours)
Prerequisites: CCJ1010, CCJ1020, CGS1100; Corequisite: CJE1300
This course is an in-depth research and analytical project which will address a criminal justice issue relevant to the students' study in criminal justice. The course includes the preparation of a study plan and a final research paper.

CJE2600  Criminal Investigation (AA)
3 credits (3 lecture hours)
This course provides a survey of methods and techniques used by law enforcement officers in the investigation of crime. It emphasizes interrogation techniques, evidence, and the role of forensic science, constitutional law, and other legal protocols in the formulation and prosecution of a criminal case. Case preparation and presentation will be explored along with courtroom techniques and investigative demeanor.

CJJ2002  Juvenile Delinquency (AA)
3 credits (3 lecture hours)
An introduction to causes and treatment of juvenile delinquency is provided. The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile status and court procedures; methods in delinquency control; and special attention given to forms of family, church and community resources bearing on juvenile adjustment and preventive measures.

CJK0001  Introduction to Law Enforcement (PSAV)
10 clock hours
This course presents the foundation of modern law enforcement and organizational and personal professionalism. Topics include: Values, Ethics, Sexual Harassment, and the Criminal Justice System.

CJK0012  Legal (PSAV)
62 clock hours
This course presents various aspects of criminal law and case law the law enforcement officer encounters in his/her everyday activities. The course will highlight and emphasize those areas of criminal law and case law such as search and seizure, use of force, juvenile law and civil issues. Students will participate in practical experience exercises, scenarios and role playing to develop necessary skills. This course presents the foundation of modern law enforcement. Topics include: Constitutinal Law and Criminal Law.

CJK0013  Interactions in a Diverse Community (PSAV)
40 clock hours
In this foundation course, the student will explore the human issues encountered by the law enforcement officer. These issues include: human diversity, mental illness, physically and developmentally disabled, juveniles, and the elderly.

CJK0014  Interviewing and Report Writing (PSAV)
56 clock hours
This course focuses on basic interviewing and report writing skills with an emphasis on organization, proper grammar and mechanics.

CJK0020  CMS Law Enforcement Vehicle Operations (PSAV)
48 clock hours
This course presents the dynamics of emergency vehicle operations and develops skills in operating a motor vehicle in a law enforcement environment. A demonstration of proficiency is required.

CJK0031  CMS First Aide For Criminal Justice Officers (PSAV)
40 clock hours
This course provides life saving skills development in emergency medical situations appropriate for the law enforcement first responder, including CPR, communicable diseases and hazardous materials.
CJ0040  Criminal Justice Firearms (PSAV)  80 clock hours  This course develops proficiency with the semi-automatic pistol used by a law enforcement officer. Qualification with the weapon is required.

CJ0051  Criminal Justice Defensive Tactics (PSAV)  80 clock hours  This course provides skills development for the officer, appropriate for the threat level, within Florida law. Demonstration of proficiency is required.

CJ0064  Fundamentals of Patrol (PSAV)  35 clock hours  This course explores the law enforcement officer's various activities while on patrol to include patrol techniques, use of the police radio, problem solving, and officer safety.

CJ0065  Calls for Service (PSAV)  36 clock hours  This course will focus on responding to a multitude of situations that a law enforcement officer may face: calls for service, disturbances, court orders, vehicle type calls, parking violations, and people in crisis.

CJ0077  Criminal Investigations (PSAV)  50 clock hours  This course introduces the basic of conducting a criminal investigation from responding to the scene, preliminary investigation, and follow-up investigations.

CJ0078  Crime Scene to Courtroom (PSAV)  35 clock hours  This course presents the steps for conducting a preliminary crime scene investigation through to testifying in court on the findings of that investigation.

CJ0084  DUI Traffic Stops (PSAV)  24 clock hours  This course presents the procedures and safety issues when dealing with the vehicle and driver in cases involving drivers under the influence of alcohol and/or drugs.

CJ0087  Traffic Stops (PSAV)  30 clock hours  This course presents the procedures and safety issues when dealing with the vehicle and driver in common circumstances of the officer: unknown risk, high risk, and unattended vehicles.

CJ0088  Traffic Crash Investigations (PSAV)  32 clock hours  This course develops the necessary knowledge and skills for an officer to investigate and document a traffic crash.

CJ0092  Critical Incidents (PSAV)  44 clock hours  This course presents the procedures for the basic response to natural and man-made disasters.

CJ0096  Criminal Justice Officer Physical Fitness Training (LE) (PSAV)  60 clock hours  Prerequisite: Physical exam and completion of form CJSTC-75B by a licensed medical doctor. The physical fitness training will present wellness, conditioning and nutritional aspects of physical fitness necessary for the law enforcement officer. The course will include a fitness assessment at the beginning, midpoint and conclusion of the academy as well as conditioning throughout the course to achieve improvement of the physical fitness of the recruit.

CJ0200  Overview of Corrections (PSAV)  14 clock hours  This course provides the student with a basic understanding of the corrections discipline.

CJ0205  Law Enforcement Crossover to Correctional Responding to Incidents and Emergencies (PSAV)  12 clock hours  This course provides the students with the knowledge required to properly identify, interpret and respond to incidents and emergencies within a correctional facility.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Clock Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJK0240</td>
<td>Law Enforcement Auxiliary Introduction (PSAV)</td>
<td>27</td>
<td>This course covers the requirements for completing the basic recruit training program as well as the importance of ethics, values, and professionalism in both their personal and professional lives. Also covered is the criminal justice system and its functions.</td>
</tr>
<tr>
<td>CJK0241</td>
<td>Law Enforcement Auxiliary Patrol and Traffic (PSAV)</td>
<td>19</td>
<td>Course covers officer survival, patrol techniques, contact, arrest and transporting prisoners, crowd control, incident command and traffic direction, stops and crash investigations.</td>
</tr>
<tr>
<td>CJK0242</td>
<td>Law Enforcement Auxiliary Investigations (PSAV)</td>
<td>17</td>
<td>Course covers the patrol officer's responsibilities in crime scene investigations and criminal investigations to include all types of crimes against both persons and property.</td>
</tr>
<tr>
<td>CJK0239</td>
<td>Overview of Law Enforcement (PSAV)</td>
<td>64</td>
<td>This course provides the student with a basic understanding of the law enforcement discipline to include values, ethics, the criminal justice system and legal doctrine.</td>
</tr>
<tr>
<td>CJK0234</td>
<td>Correctional Crossover to Law Enforcement Patrol 2 (PSAV)</td>
<td>20</td>
<td>This course introduces the recruit the concepts and theories associated with responding to and handling unusual situations faced by the patrol officer.</td>
</tr>
<tr>
<td>CJK0235</td>
<td>Correctional Crossover to Law Enforcement Officer Wellness (PSAV)</td>
<td>35</td>
<td>This course introduces the recruit the concepts and theories associated with officer wellness.</td>
</tr>
<tr>
<td>CJK0236</td>
<td>Reporting Procedures (PSAV)</td>
<td>32</td>
<td>This course provides the student with the necessary knowledge so they can properly conduct interviews and prepare well developed and organized reports.</td>
</tr>
<tr>
<td>CJK0237</td>
<td>Interactions in Crisis Situations (PSAV)</td>
<td>10</td>
<td>This course provides the students with the knowledge to allow them to properly identify crisis situations and respond accordingly.</td>
</tr>
<tr>
<td>CJK0238</td>
<td>Introduction to Corrections (PSAV)</td>
<td>32</td>
<td>This course introduces the recruit the concepts and theories associated with the correctional side of the criminal justice system.</td>
</tr>
<tr>
<td>CJK0240</td>
<td>Correctional Communications (PSAV)</td>
<td>40</td>
<td>This course covers all aspects of communication within the correctional setting.</td>
</tr>
<tr>
<td>CJK0241</td>
<td>Correctional Officer Safety (PSAV)</td>
<td>16</td>
<td>This course covers all aspects of officer safety within the correctional setting.</td>
</tr>
<tr>
<td>CJK0242</td>
<td>Correctional Facility and Equipment (PSAV)</td>
<td>8</td>
<td>This course details and describes correctional facilities and equipment.</td>
</tr>
<tr>
<td>CJK0243</td>
<td>Correctional Intake and Release (PSAV)</td>
<td>18</td>
<td>This course details the intake and release requirements and processes.</td>
</tr>
<tr>
<td>CJK0244</td>
<td>Supervising in a Correctional Facility (PSAV)</td>
<td>40</td>
<td>This course details the supervision of inmates within a correctional facility.</td>
</tr>
<tr>
<td>CJK0245</td>
<td>Supervising Special Populations (PSAV)</td>
<td>20</td>
<td>This course details the special needs, requirements and services for special population inmates within a correctional facility.</td>
</tr>
</tbody>
</table>
CJK0335  Responding to Correctional Incidents and Emergencies (PSAV)
16 clock hours
This course details the procedures and requirements when dealing with critical incidents and emergencies within a correctional facility.

CJK0340  Correctional Officer Wellness and Physical Abilities (PSAV)
30 clock hours
This course covers aspects of officer wellness and physical fitness training.

CJK0354  Law Enforcement Crossover to Correctional Officer Wellness (PSAV)
12 clock hours
This course introduces the recruit to the importance of proper physical conditioning and proper diet.

CJK0392  Crossover Handgun Transition (PSAV)
24 clock hours
This course provides training and proficiency testing with the handgun.

CJK0393  Crossover Program Updates (PSAV)
8 clock hours
This course provides the recruit with the updates and changes to the program they are crossing over to.

CJK0422  Dart-Firing Stun Gun (PSAV)
8 clock hours
This course will introduce the student to the basics of both the stun gun as well as the dart-firing stun gun and provide some fundamental knowledge on this emerging tool in criminal justice.

CJK0930  Directed Study in Criminal Justice (PSAV)
13 clock hours
Prerequisite: Permission of Program Director
This course provides 13 hours of instruction found in the Florida CMS Law Enforcement Basic Recruit Training Program required for the completion of the Auxiliary Law Enforcement Officer PSAV program. This course will be awarded through the prior learning process.

CJK0990  LE Review
32 clock hours
This course is designed to prepare the student for the State Officer Certification Examination through a thorough review process of the entire LE Academy program.

CJK1933-A  Applied Law Enforcement Officer Competencies (AS)
15 credits (15 lecture hours)
Prerequisites: The successful completion of (or earned prior learning credit for) the Law Enforcement Officer Track PSAV Academy (5600) or a certified Corrections Officer with successful completion of the Crossover to CMS Law Enforcement Officer PSAV Academy (5613); application and acceptance into the Law Enforcement Officer AS degree; and 12 credits completed toward the Law Enforcement Officer AS degree.
This course acknowledges PSAV articulation to credit for the Law Enforcement Officer AS degree (AS2606). This course is for internal college record keeping only.

CJL1062  Introduction to Constitutional Law (AA)
3 credits (3 lecture hours)
Introductory study of the United States Constitution and Florida Constitution presenting an in-depth analysis of constitutional law with emphasis on arrest, search and seizure, interrogations, self-incrimination and authority and limitations on police actions under the Bill of Rights.

CJL2100  Criminal Law (AA)
3 credits (3 lecture hours)
Study of the scope, purpose, definition, and classification of crimes is provided. Includes criminal intent, acts of omission and commission and offenses against the person and property. Elements of more common offenses and their defense are studied in-depth.

CJL2130  Laws of Evidence (AA)
3 credits (3 lecture hours)
The course provides to examine evidence and rules governing admissibility of evidence to court. The course also studies the criminal justice system, with an emphasis on Florida and Federal laws of evidence and their application.
CJL2403  Law of Arrest, Search, and Seizure (AA)
3 credits (3 lecture hours)
Covers right and duty to make arrests; obligations imposed by oath of officer; distinction between felony and misdemeanor; requisites of legal arresting in Florida Statutes; immunity from arrest, legal rights to suspect, techniques and procedures in effecting arrests; legal use of force, degree of force, rights of arrested persons; attitude and remarks of arresting officer; laws and regulations pertaining to search and hold for evidence or confiscation of property.

CLP2001  Personality Development and Adjustment (AA)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher)
This course provides a summary of the major personality theories. The course emphasizes an exposure and analysis of the theories that explain the development of personality and the effect that personality has in individual and group behaviors.

CLP2140  Abnormal Psychology (AA)
3 credits (3 lecture hours)
Prerequisite: PSY2012
This course explores the major categories of psychological disorders. Major emphases include diagnostic criteria, current research, treatment methods, cultural factors, ethical issues and the impact of psychological disorders on individuals, families and society.

CNT2000  Network Technologies (AA)
3 credits (3 lecture hours)
Corequisite: CGS1100
This course includes the basic concepts of networking including transmission media, the OSI model, protocols and relationships between the parts of the network.

CNT2401  Computer Network Security Policy Development (AS)
3 credits (3 lecture hours)
Prerequisites: CIS A.S. Degree and experience and/or knowledge of CNT2000 and CNT2700
Develops security policies and strategies after exploring the concept of trustworthy computing and the important role that security plays with respect to people, processes and technologies in an organization. The course is structured around three phases of network security: planning, building and managing security policies.

CNT2402  Implementing and Administering Network Security (AS)
3 credits (3 lecture hours)
Prerequisite: CGS1100
This course will provide students with critical information on technologies necessary for information security. Upon completion of this course, students will understand how to plan for network security threats and be able to implement solutions. Students will set up firewalls, configure both UNIX and Windows system security, and perform intrusion detection tasks.

CNT2404  Network Attacks and Introduction to TCP/IP Security (AS)
3 credits (3 lecture hours)
Prerequisite: CNT2407
This course will provide students with critical information which detects and prevents common attacks and vulnerabilities using security technologies. Students will also explore techniques on how to stay current on vulnerabilities and other security topics.

CNT2405  Intrusion Detection Systems, Countermeasures and PKI (AS)
3 credits (3 lecture hours)
Prerequisite: CNT2404
This course will provide students with critical information to identify and secure a network perimeter. Students will examine and use tools to secure computer running versions of Windows. The course includes Microsoft Baseline Security Analyzer (MBSA), Solarwinds Remote Management Systems and other RSA standard security tools. Network encryption and authentication tools are examined.

CNT2407  Information Security Implementation and Standards (AS)
3 credits (3 lecture hours)
Prerequisites: CIS A.S. Degree and CNT2401
Identifies common types of security attacks and implements practical solutions to protect organizations from internal and external threats. Students will assess security risks; secure network perimeters, servers and work stations; and respond to security incidents.
CNT2700  TCP/IP and Network Administration (AA)  
3 credits (3 lecture hours)  
Prerequisite: CTS1110 or CTS2320 or CTS2334  
The course provides a comprehensive understanding of Microsoft Windows Active Directory and to tackle enterprise level administration. The course focuses on planning, installing, and configuring DNS and Active Directory, utilizing group policy, monitoring performance, managing software installation, and using Remote Installation Services.

CNT4406  Network Security and Cryptography (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM4320 (with a grade of C or higher)  
This course will address the issues of network security with regards to securing data from unauthorized access through the use of various cryptographic techniques. The algorithms used for symmetric ciphers, asymmetric ciphers, and cryptographic data integrity will be discussed. The student will learn the practical use of algorithms for the encryption of data: a public key infrastructure will be implemented to issue certificates, Transport Level Security will be implemented to secure both web and remote access, and Virtual Private Networks will be implemented to secure data in transit across unsecured networks.

CNT4408  Information System Security (BAS)  
3 credits (3 lecture hours)  
Prerequisite: CNT2402 (with a grade of C or higher)  
The goal of this course is to provide the student with knowledge of the principles and fundamentals of information and network security. The student will receive a comprehensive overview of the need for security, planning for security, risk management, security technologies, and security and personnel.

COP1000  Introduction to Programming Logic (AA)  
3 credits (3 lecture hours)  
Prerequisite or corequisite: CGS1100  
This course provides programming logic that emphasizes the use of flow charts, pseudo-code, and functional structure charts to develop well-formed algorithms. Both structured and object-oriented design methodologies will be examined.

COP1220  Introduction to Programming in C (AA)  
3 credits (3 lecture hours)  
Prerequisite: COP1000  
Introduction to the C language emphasizes use of structured design, problem design, algorithm design, coding, debugging, testing and documentation stressing program segmentation through utility development and top-down design.

COP1332  Visual Basic Programming (AA)  
3 credits (3 lecture hours)  
Prerequisite: COP1000  
Visual Basic is an introduction to problem-solving and programming with an object-oriented, event-driven, high level programming language. The student should be able to read, understand, and create Visual Basic computer programs using modular programming techniques.

COP1933-A  Applied Technical Skills - Certified Internet Web (CIW) Associate Design Specialist (PROSO001) (AS)  
6 credits (6 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2122 program code, current Certified Internet Web (CIW) Associate Design Specialist (PROSO001) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Certified Internet Web (CIW) Associate Design Specialist (PROSO001) certification toward the Internet Services Technology AS degree. This course is for internal college record keeping only.

COP1933-B  Applied Technical Skills - Microsoft Certified Professional Developer (MCPD) - ASP.NET Developer (MICRO062) (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2122 program code, current Microsoft Certified Professional Developer (MCPD) - ASP.NET Developer (MICRO062) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Professional Developer (MCPD) - ASP.NET Developer (MICRO062) certification toward the Internet Services Technology AS degree. This course is for internal college record keeping only.
COP1933-C  Applied Technical Skills - Microsoft Certified Professional Developer (MCPD) - Web Developer (MICRO043) (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2122 program code, current Microsoft Certified Professional Developer (MCPD) - Web Developer (MICRO043) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Professional Developer (MCPD) - Web Developer (MICRO043) certification toward the Internet Services Technology AS degree. This course is for internal college record keeping only.

COP1933-D  Applied Technical Skills - Microsoft Certified Technology Specialist (MCTS) - Distributed Applications (MICRO047) (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2126 program code, current Microsoft Certified Technology Specialist (MCTS) - Distributed Applications (MICRO047) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Technology Specialist (MCTS) - Distributed Applications (MICRO047) certification toward the Computer Programming AS degree. This course is for internal college record keeping only.

COP1933-E  Applied Technical Skills - Microsoft Certified Technology Specialist (MCTS) - Windows Applications (MICRO049) (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2126 program code, current Microsoft Certified Technology Specialist (MCTS) - Windows Applications (MICRO049) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Technology Specialist (MCTS) - Windows Applications (MICRO049) certification toward the Computer Programming AS degree. This course is for internal college record keeping only.

COP1933-F  Applied Technical Skills - Microsoft Certified Technology Specialist (MCTS) - Web Applications (MICRO048) (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2126 program code, current Microsoft Certified Technology Specialist (MCTS) - Web Applications (MICRO048) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Technology Specialist (MCTS) - Web Applications (MICRO048) certification toward the Computer Programming AS degree. This course is for internal college record keeping only.

COP2334  Programming in C++ (AA)  
3 credits (3 lecture hours)  
Prerequisite: COP1000  
An intermediate level programming course assumes knowledge of how to program in C. This class emphasizes class data types, C++ functions, overloading, class inheritance, C++ I/O streams, object oriented program design, and program reusability.

COP2360  C# Programming (AA)  
3 credits (3 lecture hours)  
Prerequisite: COP1000  
This course introduces students to Visual C# programming with a focus on mobile devices such as smart phones and tablets. The students will learn about Visual Studio IDE and its components. They also learn about control structures; classes; object-oriented programming concepts such as Inheritance, Polymorphism, exception handling, event handling, and Graphical User Interface (GUI) programming for mobile devices.

COP2654  Objective C Programming (AA)  
3 credits (3 lecture hours)  
Prerequisite: COP1000 (with a grade of C or higher)  
This is an intermediate level programming course and it assumes a knowledge of programming logic. This course emphasizes the historical evolution of Objective-C; how to use Xcode to program in Objective-C on an Apple Mac; how to use the various system data types; how to use sequence, selection, repetition and object oriented programming with classes and class inheritance; and how to use Objective-C I/O streams as well as a brief introduction to iPhone programming.

COP2657  Cross Platform Mobile App Development (AA)  
3 credits (3 lecture hours)  
Prerequisite: COP2831  
This course provides students with knowledge and experience in developing cross-platform mobile applications using the latest tools and techniques.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits (Lecture Hours)</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP2660</td>
<td>Android Programming (AA)</td>
<td>3 (3)</td>
<td>COP2800</td>
<td>This course introduces students to Android programming with a focus on mobile devices such as smart phones and tablets. The students will learn about Android Software Development Kit (SDK) and its components. They also learn about control structures; classes; object-oriented programming concepts such as Inheritance, Polymorphism, exception handling, event handling, and Graphical User Interface (GUI) programming for mobile devices.</td>
</tr>
<tr>
<td>COP2664</td>
<td>iOS Programming (AA)</td>
<td>3 (3)</td>
<td>COP2654</td>
<td>This course is an introduction to software development for the iOS platform. Students will become familiar with the native programming languages used for development, Objective-C &amp; Swift, as well as the design patterns necessary to carry out development of apps for iPhone, iPod Touch, and iPad.</td>
</tr>
<tr>
<td>COP2700</td>
<td>SQL Database Techniques (AA)</td>
<td>3 (3)</td>
<td>COP1000 or CGS1543</td>
<td>This course provides students with a solid foundation in SQL, which provides a means for accessing and manipulating databases. Students will be familiarized with the structure of databases and introduced to the relational database model. Students will learn the fundamentals of the SQL language, including how to create and design tables, how to carry out queries, how to add and delete data from a database, how to create views, and how to handle security.</td>
</tr>
<tr>
<td>COP2800</td>
<td>Programming in Java (AA)</td>
<td>3 (3)</td>
<td>COP1000</td>
<td>This course introduces the student to Java programming with a focus on object-oriented programming. Students will write Java Applets. In addition, full Java applications will be written which can be used independent of HTML pages and independent of the Internet.</td>
</tr>
<tr>
<td>COP2805</td>
<td>Advanced Java Programming (AA)</td>
<td>3 (3)</td>
<td>COP2800</td>
<td>This course provides students with an understanding of how to use Java for enterprise applications. The use of JavaBeans and how they can be used to facilitate the development of enterprise applications will be explained. Using servlets and Java Server Pages, students will learn how to create dynamic web pages and how to process data entered via the web. Students will learn how to access databases, using Java Database Connectivity, by issuing SQL commands. The topic of remote method invocation will be discussed as well as security strategies.</td>
</tr>
<tr>
<td>COP2822</td>
<td>Web Site Design (AA)</td>
<td>3 (3)</td>
<td>CGS2555 or COP1000, or ART1201C, ART1300C, GRA2100C (or GRA2131C) and ART1205C</td>
<td>This course will introduce the student to Hypertext Markup Language which is used on the Internet to create home pages on the World Wide Web. Students will also learn how to incorporate Cascading Style Sheets into web pages.</td>
</tr>
<tr>
<td>COP2831</td>
<td>Advanced Web Page Applications (XML and JavaScript) (AA)</td>
<td>3 (3)</td>
<td>COP2822 or COP1220 or COP2800</td>
<td>XML is a mark-up language that is widely used in business applications to describe data, and JavaScript is one of the most popular scripting languages for creating dynamic web pages. Students will learn the techniques for writing well-formed XML, and some of the ways this mark-up language is used in business will be discussed. Using JavaScript, students will learn how to create animation, how to verify form data, and how to create web pages with an additional level of interactivity.</td>
</tr>
<tr>
<td>COP2840</td>
<td>Server-side Programming (AA)</td>
<td>3 (3)</td>
<td>COP1000 and one of the following: COP1220, COP1332, COP2334, COP2800, or COP2831</td>
<td>This course introduces students to the following server-side scripting languages: PHP, ASP.NET, and Java Server Pages. Students will gain the skills necessary to design applications and dynamic web pages using server-side scripting languages. Students will be familiarized with basic SQL commands, which are used to communicate with databases, and will learn how to issue SQL commands from scripting languages.</td>
</tr>
</tbody>
</table>
COP3530  Programming Languages and Concepts (BAS)
3 credits (3 lecture hours)
Prerequisite: COP1000 (with a grade of C or higher)
The student will learn about sequential, decision, and repetition logic structures. Students will explore data structures such as arrays, stacks, queues, and linked lists. The object-oriented programming paradigm will be used by the students in the design of applications where data and methods interact.

COP4834  Web Scripting (BAS)
3 credits (3 lecture hours)
Prerequisite: COP1000 (with a grade of C or higher)
Students in this course will learn an open-source programming language to create server-side scripts to process data from web pages. The student will create server-side scripts to connect to open-source databases and manipulate data within the database.

COS0200  Cosmetology 1 - Introduction (PSAV)
120 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides proficiency in hair shampooing and scalp treatments. Lectures center on history and career opportunities, life skills, professional image, communicating for success, infection control, properties of hair and scalp, shampooing, rinsing and conditioning. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards and State Board law.

COS0301  Cosmetology Hair Shaping 2 (PSAV)
120 clock hours
Corequisites: COS0400 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides proficiency in hair shaping (cutting and styling) for shorter hair styles. Emphasis will be placed on the selection of tools and on style selection. Wigs and hair enhancements will be covered. Instruction will consist of classroom and laboratory activities, which will be designed to achieve salon/industry standards.

COS0400  Cosmetology Hair Shaping 1 (PSAV)
120 clock hours
Corequisites: COS0200 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides proficiency in hair shaping (cutting and styling) for longer hair styles. Emphasis will be placed on the selection of tools and on style selection. Braiding will be covered. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards.

COS0600  Cosmetology 5 - Chemicals (PSAV)
120 clock hours
Corequisites: COS0301 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides proficiency in permanent waving/reconstruction and curl/chemical relaxing. Instruction in analyzing the hair, selection of approximate solutions and implements are also provided. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards and State Board law.

COS0700  Cosmetology 6 - Haircolor (PSAV)
120 clock hours
Corequisites: COS0600 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides proficiency in all types of hair coloring and bleaching. Emphasis will be placed on the analysis of hair and scalp, performance of predisposition test, selection of correct supplies and equipment for coloring, and basics of chemistry. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards and State Board law.

COS0870  Cosmetology 4 - Salon Management (PSAV)
120 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides proficiency in employability skills, communication, and math required to succeed in the salon industry. The course will touch on entrepreneurship plus an overview of State Board of Cosmetology requirements, laws, rules and regulations. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards.

CPO2002  Comparative Governments (AA)
3 credits (3 lecture hours)
Prerequisites: POS1001 (with a grade of C or higher) or POS1041 (with a grade of C or higher) or permission of instructor
This course provides an introduction of comparative model for understanding diverse governmental institutions and political systems throughout the world, including a study of other nations’ history, culture, constitution, governmental institutions, political processes and domestic and foreign policies. Governments are selected from different continents and different political traditions and include Great Britain, Germany, Russia, China, Japan, Brazil, South Africa and Iran.
CRW2001  Creative Writing (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
This course involves study of theory and practice in poetry and fiction, including collateral readings and extensive workshopping of students' own creative works. The class will critique students' works and considerable writing and rewriting required. Students prepare a final portfolio and learn how to submit works for publication.

CRW2100  Introduction to Fiction Writing 1 (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
The course provides intensive study of the process of writing short fiction, including discussion of professional models to improve understanding of elements and techniques. A substantial portion of the course will be devoted to workshopping and critiquing student writing. Students submit a final portfolio and research the market for publication.

CRW2101  Introduction to Fiction Writing 2 (AA)
3 credits (3 lecture hours)
Prerequisite: CRW2100 (with a grade of C or higher)
This is a workshop-based course for budding short fiction writers. Authors will have the opportunity to create new stories as well as to continue development of their writing projects/portfolio begun in CRW2100. Submissions will be critiqued by the professor and fellow students, deepening the writer's knowledge of necessary fictional elements; marketing techniques will be emphasized.

CRW2300  Introduction to Poetry Writing (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 (with a grade of C or higher)
The course provides intensive study of the process of writing poetry, including discussion of professional models to improve understanding of elements and techniques. A substantial portion of the course will be devoted to workshopping and critiquing student writing. Students submit a final portfolio and research the market for publication.

CSP0010  Manicuring, Pedicuring, and Nail Extensions (PSAV)
120 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in manicuring and pedicuring and in applying artificial nails and nail wraps. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards and State Board law. (Course only for students enrolled in Cosmetology PSAV program - see CSP0013 for Nail Technician program).

CSP0011  Salon Practice Lab 2 (PSAV)
120 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides additional proficiency in all phases of cosmetology salon procedures in the salon lab setting for students to continue to increase speed while improving their skills overall. All competencies, assignments, practical services and hours are completed as preparation is made to apply to the Florida Board of Cosmetology for examination and licensure.

CSP0013  Nail Specialist (PSAV)
240 clock hours
This course provides proficiency in manicuring, pedicuring, applying artificial nails and nail wraps. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve salon/industry standards and State Board law. This program prepares the student for employment as a registered Nail Specialist.

CSP0240  Facials (PSAV)
120 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides proficiency in facials and makeup. Lectures center on skin structure and growth, anatomy and physiology, electricity, hair removal, facials and makeup. Instruction will consist of both classroom and laboratory activities designed to achieve salon/industry standards and State Board law. (Course only for students enrolled in Cosmetology PSAV program-see CSP0260 for Facial Specialty program).

CSP0260  Facial Specialist (PSAV)
260 clock hours
This course provides proficiency in different types of facials and spa skin care treatments. Hair removal and different types of make-ups are demonstrated and performed. Instruction will consist of both classroom and laboratory activities, which are designed to achieve spa/industry standards and State Board law. This course prepares the student for employment as a registered Facial Specialist.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSP0300</td>
<td>Salon Practice Lab 1 (PSAV)</td>
<td>120</td>
<td>Corequisites: VPI0100, VPI0200, VPI0300. This course provides proficiency in all phases of cosmetology procedures. The focus is to perform cosmetology services on patrons in a salon setting. Students learn to increase their speed while sharpening their skills. All competencies, assignments, practical services and hours are completed as preparation is made to apply to the Florida Board of Cosmetology for examination.</td>
</tr>
<tr>
<td>CTS1110</td>
<td>Microcomputer Operating Systems (AS)</td>
<td>3</td>
<td>Prerequisite: CGS1100 or CTS1183. This course provides an introduction to a client operating system. The student will be presented with an overview of the Windows networking family, as well as cover such topics as installation, working with users and group, the file system, profiles, local policies, security, protocols, internetworking, remote access, printing, and troubleshooting.</td>
</tr>
<tr>
<td>CTS1150</td>
<td>Computer Maintenance and Repair (AS)</td>
<td>3</td>
<td>This course is designed to give the student hands on experience working with Personal Computers. It will provide the student with the various techniques and procedures for installing and troubleshooting computer hardware.</td>
</tr>
<tr>
<td>CTS1650</td>
<td>Cisco Networking 1 (AS)</td>
<td>3</td>
<td>Prerequisite: CNT2000 (with a grade of B or higher) or permission of Associate Dean. This course provides an introduction to the fundamentals of numbering systems, the OSI model and networking industry standards, networking topologies and medium, IP addressing and subnetting, basic network design as well as networking components.</td>
</tr>
<tr>
<td>CTS1933-A</td>
<td>Applied Technical Skills - Certified Wireless Network Administrator (CWNPT001) (AS)</td>
<td>3</td>
<td>Prerequisites: Application to Palm Beach State College indicating 2123 program code, current Certified Wireless Network Administrator (CWNPT001) certification and submission of completed prior learning form to Registrar. This course acknowledges articulation credits for a current Certified Wireless Network Administrator (CWNPT001) certification toward the Networking Administrator AS degree. This course is for internal college record keeping only.</td>
</tr>
<tr>
<td>CTS1933-B</td>
<td>Applied Technical Skills - Cisco Certified Network Professional (CCNP) (CISCO005) (AS)</td>
<td>3</td>
<td>Prerequisites: Application to Palm Beach State College indicating 2123 program code, current Cisco Certified Network Professional (CCNP) (CISCO005) certification and submission of prior learning form to Registrar. This course acknowledges articulation credits for a current Cisco Certified Network Professional (CCNP) (CISCO005) certification toward the Networking Administrator AS degree. This course is for college record keeping only.</td>
</tr>
<tr>
<td>CTS1933-C</td>
<td>Applied Technical Skills - CompTIA Network+ (COMPT006) (AS)</td>
<td>3</td>
<td>Prerequisites: Application to Palm Beach State College indicating 2123 program code, current CompTIA Network+ (COMPT006) certification and submission of completed prior learning form to Registrar. This course acknowledges articulation credits for a current CompTIA Network+ (COMPT006) certification toward the Networking Administrator AS degree. This course is for internal college record keeping only.</td>
</tr>
<tr>
<td>CTS1933-D</td>
<td>Applied Technical Skills - Microsoft Certified Desktop Support Technician (MCDST) (MICRO006) (AS)</td>
<td>3</td>
<td>Prerequisites: Application to Palm Beach State College indicating 2123 or 2126 program code, current Microsoft Certified Desktop Support Technician (MCDST) (MICRO006) certification and submission of completed prior learning form to Registrar. This course acknowledges articulation credits for a current Microsoft Certified Desktop Support Technician (MCDST) (MICRO006) certification toward the Computer Programming or Networking Administrator AS degree. This course is for internal college record keeping only.</td>
</tr>
<tr>
<td>CTS1933-E</td>
<td>Applied Technical Skills - CompTIA Server+ (COMPT009) (AS)</td>
<td>3</td>
<td>Prerequisites: Application to Palm Beach State College indicating 2123 or 2126 program code, current CompTIA Server+ (COMPT009) certification and submission of completed prior learning form to Registrar. This course acknowledges articulation credits for a current CompTIA Server+ (COMPT009) certification toward the Computer Programming or Networking Administrator AS degree. This course is for internal college record keeping only.</td>
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</tbody>
</table>
CTS1933-F  
Applied Technical Skills - Microsoft Certified Systems Engineer (MCSE) (MICRO012)  
Programming (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2126 program code, current Microsoft Certified Systems Engineer (MCSE) (MICRO012) Programming certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Systems Engineer (MCSE) (MICRO012) Programming certification toward the Computer Programming AS degree. This course is for college record keeping only.

CTS1933-G  
Applied Technical Skills - Microsoft Certified Systems Engineer (MCSE) (MICRO012)  
Networking Administration (AS)  
9 credits (9 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2123 program code, current Microsoft Certified Systems Engineer (MCSE) (MICRO012) Networking Administration certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified Systems Engineer (MCSE) (MICRO012) Networking Administration certification toward the Networking Administrator AS degree. This course is for internal college record keeping only.

CTS1933-H  
Applied Technical Skills - Microsoft Certified IT Professional (MCIT) Server Administrator (MICRO034) (AS)  
3 credits (3 lecture hours)  
Prerequisites: Application to Palm Beach State College indicating 2123 program code, current Microsoft Certified IT Professional (MCIT) Server Administrator (MICRO034) certification and submission of completed prior learning form to Registrar.  
This course acknowledges articulation credits for a current Microsoft Certified IT Professional (MCIT) Server Administrator (MICRO034) certification toward the Networking Administrator AS degree. This course is for internal college record keeping only.

CTS2120  
Security Essentials (AS)  
3 credits (3 lecture hours)  
Prerequisite or Corequisite: CGS1100 (with a grade of C or higher)  
This course will provide the student with knowledge of the principles and fundamentals of information and network security.  
The student will receive a comprehensive overview of the need for security, planning for security, risk management, security technologies, and security personnel.

CTS2301  
UNIX Installation and Administration Using LINUX (AS)  
3 credits (3 lecture hours)  
Prerequisite: CGS1100  
This course will provide students with the skills to install Linux, utilize the shell, configure hardware, manage users, utilize the file system, configure network services, setup remote access, manage system resources, write shell scripts, configure printing, back up and restore files, and troubleshoot Linux.

CTS2314  
Attack Prevention and Detection (AS)  
3 credits (3 lecture hours)  
Prerequisite: CNT2000 (with a grade of C or higher)  
This course will address the tools, procedures and policies necessary to effectively prevent and detect cyber attacks. This will address a wide range of solutions from software advancements to hardware enhancements.

CTS2320  
Wide Area Networks (AA)  
3 credits (3 lecture hours)  
Prerequisite: CNT2000 or CTS1110  
This course provides the skills needed to install, configure, manage, monitor, and troubleshoot Windows Server networking.  
In particular, topics covered include the proper use of networking protocols and networking services such as Dynamic Host Configuration Protocol, Domain Name Service, Windows Internet Name Service, Routing and Remote Access, IP Routing, IP Security, Internet Connection Sharing, Network Address Translation, and Certificate Services. Students have an opportunity to apply their knowledge through hands-on projects and case study assignments. As students complete hands-on projects, they will keep a journal of lab observations.

CTS2334  
Local Area Networks (AA)  
3 credits (3 lecture hours)  
Prerequisite: CNT2000 or CTS1110  
The main goal of this course is to provide students with a comprehensive understanding of Windows Server and to prepare students to tackle server administration. The course focuses on selecting server and client hardware, installing and configuring a server, setting up and managing network printing services, establishing remote access services, interoperating on a network, setting up the web server, monitoring and tuning a server, and troubleshooting problems. Students have an opportunity to apply their knowledge through hands-on projects and case study assignments.
CTS2651  Cisco Networking 2 (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: CTS1650
This course builds on semester one and introduces router configuration, Ethernet, Token Ring, Fiber Distributed Data Interface, and TCP/IP addressing. Topics also include router elements, functions performed by ICMP, command history and editing features, rip routing, IGRP routing and IP traffic.

CTS2652  Cisco Networking 3 (AS)
3 credits (3 lecture hours)
Prerequisites: CTS2651
This course introduces students to switching technology including LAN switching theory, LAN switched design, VLAN, VTP, and STP switch configurations as well as wireless technology.

CTS2653  Cisco Networking 4 (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: CTS2652
This course provides an introduction to the fundamentals of scaling networks employing NAT and PAT, DHCP, WAN technologies such as PPP, ISDN and DDR, and Frame Relay.

CTS2664  Router and Switch Security (AS)
3 credits (3 lecture hours)
Prerequisite: CTS2651 (with a grade of C or higher)
This course introduces students to the security threats in today's network infrastructure including Cisco routers, switches, and security appliances.

CTS2930-A  Special Topic - Network Infrastructure Design (AS)
3 credits (3 lecture hours)
Prerequisite: COP1000 or CNT2000
Network Infrastructure Design examines the hardware and software resources that enable connectivity, communication, operations and management of an enterprise network. Data center design and issues such as power systems, environmental issues and standards also will be explored.

CTS4425  ASP.NET Web Application Development (BAS)
3 credits (3 lecture hours)
Prerequisite: COP1000 (with a grade of C or higher)
Students in this course will learn to use ASP.NET to process data from web pages. The student will create n-tier ASP.NET Web applications. SQL Server databases will be accessed and manipulated using ADO.NET. Students will implement code that provides persistence of data between user requests.

DEA0130  Related Dental Theory (PSAV)
32 clock hours
This course is designed to acquaint the dental auxiliary with various health related topics having application in the field of dentistry. One topic discussed is microbiology, stressing pathogenic microorganisms. Oral pathology, both benign and malignant neoplasms, is explored. A familiarization of common drugs and medicaments, their toxicities, and effects is also included. Nutritional concepts with emphasis on the relationship to oral health, is presented. Finally, the body systems, their functions and related diseases are identified in the format of student presentations.

DEA0137  Oral, Head and Neck Anatomy (PSAV)
48 clock hours
Dental Anatomy is the study of the structure, morphology, and function of the primary and permanent dentitions as well as head and neck anatomy. The direct correlation of dental procedures and human oral anatomy is emphasized.

DEA0153  Dental Psychology and Communication (PSAV)
32 clock hours
This course is divided into two subject areas. The first subject area explores the study of the psychological factors that affect the dental patient's behavior, techniques to overcome fears and anxieties concerning dentistry and team building in the dental practice. The second subject area provides opportunities with oral and written communications.

DEA0743  Preventive Dentistry (PSAV)
32 clock hours
This course is designed to teach the student how to educate and motivate dental patients in the prevention of dental diseases. A study of periodontal tissues, tooth deposits and stains, etiology of dental caries, fluoride modalities, preventive oral physiotherapy, and dental biofilm control are all discussed and related to the control of dental diseases.
DEA0744  Dental Materials (PSAV)
32 clock hours  
Corequisite: DEA0744L (with a grade of C or higher)
This course is designed to acquaint the student with the physical and chemical properties of materials used in dental practice. Emphasis is placed on why specific materials are used, rather than solely upon manipulative techniques.

DEA0744L  Dental Materials Lab (PSAV)
32 clock hours  
Corequisite: DEA0744 (with a grade of C or higher)
This course is designed to acquaint the student with the physical and chemical properties of materials used in dental practice. Emphasis is placed on why specific materials are used, rather than solely upon manipulative techniques. The laboratory phase affords the student the opportunity to develop manipulative skills with the materials used within the auxiliary's scope of dental practice and to evaluate the effects of specific materials in the oral environment.

DEA0746  Dental Office Emergencies (PSAV)
16 clock hours  
This course encompasses the study of the symptoms, treatment and equipment necessary to provide adequate care for common office emergencies. Discussion and practice will include emergency preparedness, content of the emergency kit and vital signs. Emergency treatment and cautions for medical and dental emergencies will be studied as well as common emergency drugs used.

DEA0747  Office Management (PSAV)
16 clock hours  
Marketing skills of the dental health care provider will be explored in depth. A working letter of application, resume' and a follow-up letter along with a 1-2 page philosophy paper will be prepared. Traditional business office procedures will be compared and contrasted with those found in offices utilizing today's more advance technology.

DEA0755  Dental Radiology (PSAV)
32 clock hours  
Corequisite: DEA0755L (with a grade of C or higher)
A study of the nature, physical behavior, biological effects, methods of control, safety precautions, and techniques for exposing, processing, and mounting x-rays. Laboratory procedures will include application of these techniques in clinical practice.

DEA0755L  Dental Radiology Lab (PSAV)
32 clock hours  
Corequisite: DEA0755 (with a grade of C or higher)
Applications of techniques taught in Dental Radiology lecture as used in clinical practice.

DEA0757  Expanded Functions (PSAV)
16 clock hours  
Corequisite: DEA0757L (with a grade of C or higher)
This course is designed to provide necessary information for the dental assisting and dental hygiene students to perform the remidiable tasks and expanded functions permitted by the Rules and Regulations of the Florida State Board of Dentistry Chapter 466 and Statute 64B5.

DEA0757L  Expanded Functions Lab (PSAV)
32 clock hours  
Corequisite: DEA0757 (with a grade of C or higher)
This course is designed to provide the clinical practice necessary for the dental assisting and dental hygiene students to perform the remidiable tasks and expanded functions permitted by the Rule and Regulations of the Florida State Board of Dentistry Statute 64B5.

DEA0758  Introduction to Clinical Procedures (PSAV)
48 clock hours  
Corequisite: DEA0758L (with a grade of C or higher)
This course includes a study of: basic medical/dental terminology, the history of dentistry and the theory and techniques of clinical procedures, including microbiology and aseptic procedures, instrument design, patient/operator procedures, the oral examination, dental charting, and basic patient oral hygiene instruction. Infection control guidelines will be stressed throughout this course.
DEA0758L  Introduction to Clinical Procedures Lab (PSAV)
32 clock hours
Corequisite: DEA0758 (with a grade of C or higher)
Introduction to Clinical Procedures Lab is a study of: basic medical/dental terminology, the history of dentistry and the theory and techniques of clinical procedures, including patient/operator positioning, the oral exam, dental charting, instrument design, transfer and oral evacuation, and fundamental oral hygiene instruction. Infection control guidelines will be stressed throughout this course.

DEA0800  Clinical Practice 1 (PSAV)
32 clock hours
Recommended Prerequisites: DES1200, DES1200L; Corequisite: DEA0800L (with a grade of C or higher)
This course is designed to introduce and continue the instruction in the fundamentals of clinical dental assisting. Included will be the working knowledge of all dental equipment, instruments, manipulation of dental materials, patient management, and the application of four-handed dentistry in a clinical setting.

DEA0800L  Clinical Practice 1 Lab (PSAV)
128 clock hours
This course will provide clinical application of the principles taught in DEA0800 Clinical Practice 1 lecture. The students will have additional assigned responsibilities in areas of radiology, team leadership, sterilization, and reception area duties. The student will also participate in out-clinic rotations and observations.

DEA0801  Clinical Practice 2 (PSAV)
32 clock hours
Corequisite: DEA0801L (with a grade of C or higher)
This course is designed to continue the instruction in the fundamentals of clinical dental assisting. Included will be the working knowledge of all dental equipment, instruments, manipulation of dental materials, patient management and the application of four-handed dentistry in a clinical setting.

DEA0801L  Clinical Practice 2 Lab (PSAV)
192 clock hours
This course will provide clinical application of the principles taught in DEA0800 Clinical Practice 1 lecture and DEA0801 Clinical Practice 2 lecture. The students will have additional assigned responsibilities in areas of radiology, team leadership, sterilization, and reception area duties. The student will also participate in out-clinic rotations and observations.

DEA0850  Dental Assisting Clinical Practice 3 (PSAV)
16 clock hours
In the didactic portion of this course, a detailed overview of the key designated subject areas represented on the Dental Assisting National Board will be studied. A seminar will be scheduled to discuss the students' experiences in their externship.

DEA0850L  Clinical Practice 3 Lab (PSAV)
310 clock hours
Corequisite: DEA0850 (with a grade of C or higher)
The clinical portion of this course will enable the dental assisting student to utilize all skills and competencies developed and to increase the student's capabilities and proficiencies during a supervised externship.

DEA0940L  Dental Practicum 1 Lab (PSAV)
24 clock hours
The objective of this course is to provide clinical experience in patient preparation for oral diagnosis. Students will have assigned responsibilities in the areas of charting, fabrication of study models, and digital radiology. In addition, the students, in partnership with the Department of Health, will administer fluoride treatment to elementary school children and rotate through the Sealant Bus providing oral health care instruction.

DEA0941L  Dental Practicum 2 Lab (PSAV)
64 clock hours
The objective of this course is to provide detailed knowledge and advanced clinical experience in various intra-oral procedures. The student will continue to have assigned responsibilities in the areas of Expanded Functions and digital radiology. The student will continue their rotations providing fluoride treatments and oral health care instruction with the Department of Health Sealant Bus. Educational enrichment projects, such as, touring dental laboratories and an implant facility will also be available.

DEH1003  Dental Hygiene Instrumentation (AS)
1 credits (1 lecture hours)
Recommended Prerequisites: DES1800, DES1800L; Corequisite: DEH1003L (with a grade of C or higher)
A competency-based course introducing the student dental hygienist to the theory and techniques of instrumentation that will be applied in a lab/clinical setting. Completion of the course competencies at minimum standard will allow the student to progress to Dental Hygiene 1.
DEH1003L Dental Hygiene Instrumentation Lab (AS)  
2 credits (6 lab hours)  
Recommended Prerequisites: DES1800, DES1800L; Corequisite: DEH1003 (with a grade of C or higher)  
A competency-based course introducing the student dental hygienist to the applications and techniques of instrumentation in a lab/clinical setting. Completion of course competencies at minimum standard will allow the student to progress to Dental Hygiene 1.

DEH1130 Oral Embryology and Histology (AS)  
1 credits (1 lecture hours)  
A comprehensive study of the embryonic, fetal and postnatal development of the tissues and structures of the head and oral cavity and their relationship to the field of dentistry.

DEH1800 Dental Hygiene 1 (AS)  
1 credits (1 lecture hours)  
Corequisite: DEH1800L  
Basic theory, technique and principles will be introduced in this didactic course and will be applied through practical experiences in the clinical setting. The student is introduced to: patient assessment and management based on the use of indexes, radiographic interpretation, dental hygiene treatment planning, and anxiety and pain management, supported by a review of professional literature.

DEH1800L Dental Hygiene 1 Lab (AS)  
4 credits (12 clinical hours)  
Corequisite: DEH1800  
Basic theory, technique and principles will be introduced and applied through practical experiences in the clinical setting. Dental Hygiene care to the public is initiated through the delivery of preventive and therapeutic services. Clinical Dental Hygiene 1 places emphasis on patient contact time. Students will be required to complete a specific number of dental appointments in the clinic. It is each student’s responsibility to correlate theory, techniques and principles of Introduction to Clinical Procedures and Dental Hygiene Instrumentation with Clinic 1.

DEH1802 Dental Hygiene 2 (AS)  
1 credits (1 lecture hours)  
Corequisite: DEH1802L  
This course is a continuation of Dental Hygiene 1. Students advance their understanding of systemic disease processes and their integral link to oral health. In addition, dietary counseling and tobacco cessation counseling will now be incorporated in patient care management. Students will complete an online module to support future delivery of local anesthesia.

DEH1802L Dental Hygiene 2 Lab (AS)  
1 credits (3 clinical hours)  
Corequisite: DEH1802  
This course is a continuation of Dental Hygiene 1, adding the clinical application of dietary counseling, and tobacco cessation counseling coordinated with patient medical history in patient care management. Students continue to refine their patient assessment and instrumentation skills.

DEH1811 Dental Ethics and Jurisprudence (AS)  
1 credits (1 lecture hours)  
Emphasis will be on discussion of current legal and ethical issues in dental hygiene practice. Topics will include professional ethics, dental law, risk management and standards of care. The Dental Hygiene Practice Act as it governs the dental hygiene profession will be reviewed.

DEH2300 Pharmacology (AS)  
2 credits (2 lecture hours)  
A comprehensive study of pharmacology as it relates to the field of dentistry and dental hygiene.

DEH2400 General and Oral Pathology (AS)  
2 credits (2 lecture hours)  
A comprehensive study of oral abnormalities and disease processes with emphasis on clinical identification.

DEH2602 Periodontology (AS)  
2 credits (2 lecture hours)  
This course is a study of the etiology, classification and treatment of periodontal disease. Emphasis is on recognition and treatment of clinical disease states of the periodontium.
DEH2701 Community Dentistry (AS)  
2 credits (2 lecture hours)  
This course explores prevention and control of dental disease in the community through the study of biostatistics and epidemiology. Students will analyze evidence-based literature to support assessing, planning, implementing and evaluating procedures in oral health community programs based on the specific needs of a target population. Emphasis will also be placed on alternative practice settings in community dentistry for the dental hygiene practitioner.

DEH2702L Community Dentistry Practicum (AS)  
1 credits (2 lab hours)  
Prerequisite: DEH2701 (with a grade of C or higher)  
This course is designed to give the dental hygiene student professional experiences with exposure to target populations within our community. Emphasis is placed on oral health education of the public in an institutional and public setting using skills acquired in both DEH2701 and DEH2702L.

DEH2804 Dental Hygiene 3 (AS)  
1 credits (1 lecture hours)  
Corequisite: DEH2804L  
This course is the didactic portion of DEH2804L, clinic. It is a continuation of the development of dental hygiene skills, knowledge and patient care in theory and practice. Through lecture and seminar format, current preventive therapies and the application to dental hygiene care and treatment will be emphasized. Case-based learning tools will be integrated to assist students in linking basic knowledge to the delivery of evidence-based patient treatment.

DEH2804L Dental Hygiene 3 Lab (AS)  
4 credits (1 lecture hours)  
Corequisite: DEH2804  
A continuation of the development and application of dental hygiene skills and knowledge in both theory and practice of oral health patient care. Clinical participation will include activities at both off and on campus dental health facilities and community settings. Emphasis will be on the application of new and current dental hygiene preventive therapies, as well as the remediable tasks delegated to the dental hygienist in the state of Florida. A variety of different practice settings will be provided to afford the student an experience to treat special needs and a diverse population. A variety of different practice settings will be included.

DEH2806 Dental Hygiene 4 (AS)  
1 credits (1 lecture hours)  
Corequisite: DEH2806L  
This course is the companion seminar/lecture component for students in the phase of the development and application of dental hygiene skills and knowledge in both theory and practice. Didactic seminars and lectures will incorporate the application of new and current preventive therapies.

DEH2806L Dental Hygiene 4 Lab (AS)  
5 credits (15 clinical hours)  
Corequisite: DEH2806  
This course is the final clinical course and is a continuation of the development and clinical application of dental hygiene skills and knowledge in both theory and practice. Clinical participation will include off and on campus dental health facilities, with the application of new and current preventive therapies. A variety of different practice settings will be included.

DEH2934 Compromised Patient (AS)  
1 credits (1 lecture hours)  
Recommended Prerequisites: DES1840; Recommended Corequisites: DEH2603, DEH2804C  
This course provides the dental hygiene student an understanding of the problems peculiar to patients with special needs or unusual health factors that may complicate routine care generally provided and special procedures involved to help the patient maintain optimum oral health.

DEP2004 Human Growth and Development (AA)  
3 credits (3 lecture hours)  
Recommended Prerequisite: PSY2012  
Introduces the student to the principles and processes of normal human growth and development. The student will understand and apply these concepts to specific age groupings, from conception through death. Principles of health promotion and disease prevention will be integrated with course content. Biopsychosocial forces will be studied in relation to their effects on the range of normal human behaviors.
DEP2102  Child Growth and Development (AA)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher)
This course provides an overview of a child from prenatal development through adolescence. The student will learn the various domains of development and associate theories and concepts with each domain (physical, cognitive and socio-emotional). Applicable to educators, parents and people who wish to work with children, an observation and analysis component is integral to this course.

DES1020  Dental Anatomy (AS)
3 credits (3 lecture hours)
Dental anatomy is the study of the structure, morphology and function of the primary and permanent dentitions as well as head and neck anatomy. The direct correlation of dental procedures to human oral anatomy is emphasized.

DES1100  Dental Materials (AS)
2 credits (2 lecture hours)
Corequisite: DES1100L (with a grade of C or higher)
This course is designed to acquaint the student with the physical and chemical properties of materials used in dental practice. Emphasis is placed on why specific materials are used, rather than solely upon manipulative techniques.

DES1100L  Dental Materials Lab (AS)
1 credits (2 lab hours)
Corequisite: DES1100 (with a grade of C or higher)
This course is designed to acquaint the student with the physical and chemical properties of materials used in dental practice. Emphasis is placed on why specific materials are used, rather than solely upon manipulative techniques. The laboratory phase affords the student the opportunity to develop manipulative skills with the materials used within the auxiliaries' scope of dental practice and to evaluate the effects of specific materials in the oral environment.

DES1200  Dental Radiology (AS)
2 credits (2 lecture hours)
Corequisite: DES1200L (with a grade of C or higher)
A study of the nature, physical behavior, biological effects, methods of control, safety precautions, and the techniques for exposing, processing, and mounting x-rays. Laboratory procedures will include application of these techniques in clinical practice.

DES1200L  Dental Radiology Lab (AS)
1 credits (2 lab hours)
Corequisite: DES1200 (with a grade of C or higher)
Applications of techniques taught in dental radiology lecture as used in clinical practice.

DES1600  Office Emergencies (AS)
1 credits (1 lecture hours)
This course encompasses the study of the symptoms, treatment and equipment necessary to provide adequate care for common office emergencies. Discussion and practice will include emergency preparedness, content of the emergency kit and vital signs. Emergency treatment and cautions for medical and dental emergencies will be studied as well as common emergency drugs used.

DES1800  Introduction to Clinical Procedures (AS)
3 credits (3 lecture hours)
Corequisite: DES1800L (with a grade of C or higher)
This course includes a study of: basic medical/dental terminology, the history of dentistry and the theory and techniques of clinical procedures, including microbiology and aseptic procedure, instrument design and patient/operator positioning, the oral exam, dental charting, and basic patient oral hygiene instruction. Infection control guidelines will be stressed throughout this course.

DES1800L  Introduction to Clinical Procedures Lab (AS)
1 credits (2 lab hours)
Corequisite: DES1800 (with a grade of C or higher)
Introduction to Clinical Procedures is a study of basic medical/dental terminology, the history of dentistry, the theory and techniques of clinical procedures; including patient/operator positioning, instrument design, the oral exam, dental charting, instrument transfer and oral evacuation, and fundamental oral hygiene instruction. Infection control guidelines will be stressed throughout this course.
DES1832  Expanded Functions Lecture (AS)
1 credits (1 lecture hours)
Corequisite: DES1832L (with a grade of C or higher)
This course is designed to provide necessary information for the dental assisting and dental hygiene students to perform the remediable tasks and expanded functions permitted by the Rules and Regulations of the Florida State Board of Dentistry Chapter 466 and Statute 64B5.

DES1832L  Expanded Functions Lab (AS)
1 credits (2 lab hours)
Corequisite: DES1832 (with a grade of C or higher)
This course is designed to provide the clinical practice necessary for the dental assisting and dental hygiene students to perform the remediable tasks and expanded functions permitted by the Rules and Regulations of the Florida State Board of Dentistry Statute 64B5.

DES1840  Preventive Dentistry (AS)
2 credits (2 lecture hours)
This course is designed to teach the students how to educate and motivate patients in the prevention of dental diseases. A study of the periodontal tissues, tooth deposits and stains, etiology of dental caries, fluoride modalities, preventive oral physiotherapy, and dental biofilm control are all discussed and related to the control of dental diseases.

DES2502  Office Management (AS)
1 credits (1 lecture hours)
Marketing skills of the dental health care provider will be explored in depth. A working letter of application, resume and follow-up letter will be prepared. Traditional business office procedures will be compared and contrasted with those found in offices utilizing more advanced technology.

DIG2300C  Principles of 2D Animation (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ART1201C, ART1300C, FIL2044 (with a grade of C or higher)
Content includes 2D tools for compositing, animation, and effects that digital media professionals, web designers, and video professionals use. Fundamentals in the design of composited layers are combined with sophisticated visuals and audio effects for animations. Students are also introduced to the use of digital assets created in object-oriented and digital imaging software.

DIG2302C  Principles of 3D Animation (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: DIG2300C (with a grade of C or higher)
This course teaches Autodesk's 3D Max and/or Maya software for still image renderings and 3D animations. Topics include fundamentals of modeling, texturing, lighting, animation, and rendering. The software is used to create geometric objects, backgrounds, and animated scenes. Numerous short animated videos are created.

DIG2322C  Modeling for Real Time Systems (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: DIG2370C (with a grade of C or higher)
This course teaches advanced techniques for character animation, texture, lighting, and rendering. This course reinforces the principles of artificial characters, environments, and effects. The students examine in detail the techniques and mechanics of designing and developing geometrical representations and control structures including an introduction to procedural models. Students develop significant hands-on assignments to apply the concepts learned.

DIG2341C  Introduction to Compositing and Visual Effects (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: FIL2000, FIL2571C (with a grade of C or higher)
This course teaches digital post-production techniques used for film, animation, video, digital media, and the web. Students learn fundamental concepts for the creation of 3D motion graphics, lighting, animation and visual effects. Focus is placed on digital media components, and screen outputs for specialty projects while exploring foundations for computer-aided digital production. Advanced techniques in digital compositing, sequencing, animation of type, graphic transitions, and related topics are introduced.

DIG2370C  Advanced 3D Animation - Character Design and Rigging (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, ART1300C, DIG2302C, FIL2044 (with a grade of C or higher)
This course teaches advanced techniques in 3D computer graphics and animation. Students are introduced to the theory, mechanics, techniques, and design principles used to create believable artificial characters. Additional topics include modeling, texturing, rigging, animation movements, motion backgrounds, and 3D character development.
DIG2430C  Digital Story Development for Film Animation (AS)
3 credits (2 lecture hours, 2 lab hours)
Corequisite: FIL2100 (with a grade of C or higher)
This course teaches the foundations of film animation creation including storytelling, screenwriting, storyboarding, and conceptualizing. Specific areas include layout, charts, storyboarding, environment illustrations, character design, and model sheets. Other topics covered in this course include beat outlining and concept pitching. Students create non-linear and interactive story structures and read supporting materials, view media for discussion, create and pitch story concepts, and develop a final screenplay. The course introduces several software applications for the creation of concept art, storyboards, and screenwriting.

DIM0004  Introduction to Diesel Technology (PSAV)
150 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides entry level skills in heavy truck service and systems operation. The topics covered include shop safety, OSHA rules, applied math and science principles, identification and proper use of shop tools and equipment, heavy truck component identification, use of electronic service information, proper use of measuring tools, EPA rules on hazardous waste handling and disposal. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0006  Diesel Engine Systems 2 (PSAV)
150 clock hours
Corequisites: DIM0014 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides advanced proficiency in the diagnosis and repair of electronic diesel engines, computerized controls, hydro mechanical diesel fuel injection systems, fuel subsystems, and electronic injection systems. Special emphasis will be placed on the proper use of engine performance diagnostic tools, oscilloscope, analyzers and hand held scan tools. Students will also learn employability skills and entrepreneurial opportunities in diesel technology. The course instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0007  Heavy Truck Brake Systems 1 (PSAV)
150 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
The course provides an introduction to the operation and maintenance of truck air brake system. The areas covered will include: air supply circuits, air compressors, governors, air dryers, evaporators, brake control valves, and parking/emergency brake circuits. This course also covers the types of foundation brakes and related mechanical systems. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0008  Heavy Truck Brake Systems 2 (PSAV)
150 clock hours
Corequisites: DIM0007 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides an advanced proficiency in the operation and servicing of heavy truck brake systems. Instruction will include disc and drum brakes, hydraulic brake systems, air over hydraulic brake systems, power assist units, ABS-anti-lock systems, and related miscellaneous mechanical/electrical components. Instruction will consist of both classroom and laboratory activities designed to meet industry standards and safety.

DIM0014  Diesel Engine Systems 1 (PSAV)
150 clock hours
Corequisites: DIM0004 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides proficiency in Diesel engine theory and repair. Areas of concentration will include the diagnosis and repair of the cylinder head and valve train, engine block, lubrication and cooling systems. Course will consist of both classroom and laboratory activities designed to meet industry standards and safety.

DIM0103  Preventive Maintenance Inspection (PSAV)
150 clock hours
Prerequisites: DIM0004, DIM0008 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides an introduction to establish proficiency on the preventive maintenance of heavy truck systems. Special emphasis will be placed on fluid inspection systems, fluid maintenance and replacement, lubrication, oil analysis, air intake systems, cooling system maintenance and DOT compliance. The course instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.
DIM0106  Hydraulic Systems (PSAV)
150 clock hours
Prerequisites: DIM0004, DIM0008 (with a grade of C or higher); Corequisites: DIM0201 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course will introduce the student to the basic principles of hydraulic pumps, motors, and hydraulic accessories. The student will identify, explain, and troubleshoot components using diagrams and test equipment by performing hands-on skills in maintaining and reconditioning hydraulic systems in the lab. The student will perform lab and shop procedures in the following areas: tool use and organization; personal safety and environmental practices; diesel shop organization and management. This course will also provide the student with skills relating to workplace communication and employment as well as offer optional work experience training.

DIM0201  Drive Train Systems (PSAV)
150 clock hours
Prerequisites: DIM0004, DIM0008 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides proficiency in service and adjustment of power train systems used on medium and heavy trucks. Emphasis will be placed on the service, adjustment and replacement clutch components, standard transmissions, torque converters and automatic transmissions. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve industry standards and safety.

DIM0302  Electrical and Electronic Systems 1 (PSAV)
150 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides the principles of electrical and electronic diagnosing and troubleshooting of automotive parts and components. An emphasis will also be placed on the proper diagnosis, service and repair of battery and starting systems. Instruction will consist of both classroom and laboratory activities designed to meet industry standards and safety.

DIM0303  Electrical and Electronic Systems 2 (PSAV)
150 clock hours
Corequisites: DIM0302 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides advanced electrical and electronics system proficiency in the diagnosis and repair of heavy truck charging systems, lighting systems, driver information systems, multiplexing and data link lines, and electrical/electronic accessories. The course will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0500  Truck Steering and Suspension (PSAV)
150 clock hours
Prerequisites: DIM0004, DIM0008 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in steering, suspension and wheel alignment systems used on medium and heavy trucks. Emphasis will be placed on the diagnosis, repair and replacement of components that are critical to safe and efficient operation of the vehicle. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve industry standards and safety.

DIM0610  Heating and Air Conditioning (PSAV)
150 clock hours
Prerequisites: DIM0004, DIM0008 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in the diagnosis and repair of heating, air conditioning and engine cooling systems. Emphasis will be placed on electronic controls, vacuum and mechanical components, clutch and compressor, refrigerant recovery, and compliance with EPA regulations. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0840  Introduction to Heavy Equipment Mechanic (PSAV)
150 clock hours
Corequisites: VPI0100, VPI0200, VPI0300
This course provides entry level skills in heavy equipment service and systems operation. The topics covered include shop safety, OSHA rules, applied math and science principles, identification and proper use of shop tools and equipment, heavy equipment component identification, use of electronic service information, proper use of measuring tools, and EPA rules on hazardous waste handling and disposal. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0841  Heavy Equipment Mechanic Systems (PSAV)
150 clock hours
Corequisites: DIM0840 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides an introduction in the diagnosis and repair of agricultural, construction, mining equipment, and diesel and natural gas engines. This course also covers construction foundation and related mechanical systems. Students will also learn employability skills and entrepreneurial opportunities in heavy equipment mechanic field.
DIM0842  **Heavy Equipment Engine Systems (PSAV)**
150 clock hours
Corequisites: DIM0841 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides advanced proficiency in diesel engines theory and repair. Areas of concentration will include the diagnosis and repair of diesel engines, lubrication, fuel, and cooling systems. Special emphasis will be placed on the proper use of engine performance diagnostic tools, oscilloscope, analyzers and hand held scan tools. Course will consist of both classroom and laboratory activities designed to meet industry standards and safety.

DIM0843  **Electrical/Electronic Systems in Heavy Equipment 1 (PSAV)**
150 clock hours
Prerequisite: DIM0842 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides the principles of electrical and electronic diagnosing and troubleshooting of heavy equipment parts and components. An emphasis will also be placed on the proper diagnosis, service and repair of battery and starting systems. Instruction will consist of both classroom and laboratory activities designed to meet industry standards and starting systems.

DIM0844  **Electrical/Electronic Systems in Heavy Equipment 2 (PSAV)**
150 clock hours
Corequisites: DIM0843 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course provides advanced electrical and electronics system proficiency in the diagnosis and repair of heavy equipment charging systems, lighting systems, operator information systems, multiplexing and data link lines, and electrical/electronic accessories. The course will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0845  **Preventive Maintenance Inspection in Heavy Equipment (PSAV)**
150 clock hours
Prerequisite: DIM0844 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides an introduction to establish proficiency on the preventive maintenance of heavy equipment systems. Special emphasis will be placed on fluid inspection systems, fluid maintenance and replacement, lubrication, oil analysis, air intake systems, cooling system maintenance and DOT compliance. The course instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DIM0846  **Hydraulic Systems in Heavy Equipment (PSAV)**
150 clock hours
Prerequisite: DIM0845 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course will introduce the student to the basic principles of hydraulic pumps, motors, and hydraulic accessories in heavy equipment. The student will identify, explain, and troubleshoot components using diagrams and test equipment by performing hands-on skills in maintaining and reconditioning hydraulic systems in the lab. The student will perform lab and shop procedures in the following areas: tool use and organization; personal safety and environmental practices; heavy equipment mechanic shop organization and management. This course will also provide the student with skills relating to workplace communication and employment as well as offer optional work experience training.

DIM0847  **Heavy Equipment Steering/Suspension (PSAV)**
150 clock hours
Prerequisite: DIM0846 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in steering, suspension and wheel alignment systems used on heavy equipment. Emphasis will be placed on the diagnosis, repair and replacement of components that are critical to safe and efficient operation of the vehicle. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve industry standards and safety.

DIM0848  **Drive Train Systems in Heavy Equipment 1 (PSAV)**
150 clock hours
Prerequisites: DIM0846, DIM0850 (with a grade of C of higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides proficiency in service and adjustment of power train systems used on heavy equipment. Emphasis will be placed on the service, adjustment and replacement of clutch components, standard transmissions, torque converters and automatic transmissions. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve industry standards and safety.

DIM0849  **Drive Train Systems in Heavy Equipment 2 (PSAV)**
150 clock hours
Prerequisite: DIM0848 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides proficiency in service and adjustment of track type systems, servo transmissions, transfer case and final drives systems used on heavy equipment. Emphasis will be placed on the service, adjustment and replacement of these components. Instruction will consist of both classroom and laboratory activities, which will be designed to achieve industry standards and safety.
DIM0850  Heavy Equipment Brake Systems (PSAV)
150 clock hours
Prerequisite: DIM0849 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course provides an introduction to the operation and maintenance of heavy equipment brake systems. The areas covered will include: air systems, air compressors, governors, air dryers, evaporators, brake control valves, disc and drum brakes, hydraulic brake systems, air over hydraulic brake systems, power assist units, ABS-anti-lock systems, and related miscellaneous mechanical/electrical components. Instruction will consist of both classroom and laboratory activities designed to meet industry standards and safety.

DIM0851  Heating and Air Conditioning Systems in Heavy Equipment (PSAV)
150 clock hours
Prerequisites: DIM0840, DIM0850 (with a grade of C or higher); Corequisites: VPI0100, VPI0200, VPI0300
This course is designed to establish proficiency in the diagnosis and repair of heavy equipment heating, air conditioning and engine cooling systems. Emphasis will be placed on off road vehicle electronic controls, vacuum and mechanical components, clutch and compressor, refrigerant recovery, and compliance with EPA regulations. Instruction will consist of classroom and laboratory activities designed to meet industry standards and safety.

DSC1002  Terrorism and U.S. Security (AA)
3 credits (3 lecture hours)
This course teaches the foundations of national security as it relates to world terrorism, the United States engagement in the war against international terrorism, and the application of preemptive known as the Bush Doctrine. The course is a survey of the history and cultural development of Islam and the extreme manifestation of political militancy known as Jihad. The cultural and political history will enhance student understanding of the factors leading up to the events of September 11, 2001 and how those events changed American security.

DSC1242  Transportation and Border Security (AS)
3 credits (3 lecture hours)
This course provides an overview of modern border and transportation security challenges, as well as different methods employed to address these challenges. The course covers a time period from post 9-11 to the present. The course explores topics associated with border security and security for transportation infrastructure, to include: seaports, ships, aircraft, airports, trains, train stations, trucks, highways, bridges, rail lines, pipelines, and buses. The course will include an exploration of technological solutions employed to enhance security of borders and transportation systems. Students will be required to discuss the legal, economic, political, and cultural concerns and impacts associated with transportation and border security. The course provides students with a knowledge level understanding of the variety of challenges inherent in transportation and border security.

DSC1590  Intelligence Analysis and Security Management (AS)
3 credits (3 lecture hours)
This course examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks, man-made disasters and natural disasters. It also explores vulnerabilities of our national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters, and natural disasters. Students will discuss substantive issues regarding intelligence support of homeland security measures implemented by the United States and explore how the intelligence community operates.

DSC4710  Capstone: Public Safety Management (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
This course focuses on the integration of knowledge, skills, and abilities learned in the program through a capstone project. This course should be taken during the last semester of the program.

EAP0300  Introduction to Listening and Speaking Skills (Dev Ed)
4 institutional credits (4 lecture hours)
Prerequisite: LOEP Listening test score of 71-85
This course is for students whose primary language is not American English and whose test scores indicate need for training in listening and speaking skills. Emphasis is placed on improving listening comprehension, pronunciation and fluency. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP0382  Integrated Reading and Writing (Dev Ed)
4 institutional credits (4 lecture hours)
Prerequisite: LOEP Composite test score of 71-85
This course is for students whose primary language is not English and whose test scores indicate need for training in reading and writing skills. Emphasis is placed on reading comprehension, vocabulary development and paragraph structure. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.
EAP0388  Integrated Speech and Grammar (Dev Ed)
4 institutional credits (4 lecture hours)
Prerequisite: LOEP Composite test score of 71-85
This course is for students whose primary language is not English and whose test scores indicate need for training in speech and grammar skills. Emphasis is placed on language accuracy and fluency. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP0400  Speaking and Listening 1 (Dev Ed)
3 institutional credits (3 lecture hours)
Prerequisite: LOEP Listening test score of 86-95 or EAP0300 (with a grade of C or higher)
This preparatory course features in-class and laboratory experiences that will enable students to improve their speaking and listening skills. Standard English pronunciation, stress, intonation and idiom, as well as differences in nonverbal communication, will be taught and applied. A variety of social, professional, and academic experiences will be emphasized. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP0420  Intermediate Reading (Dev Ed)
3 institutional credits (3 lecture hours)
Prerequisite: LOEP Composite test score of 86-95 or EAP0382 (with a grade of C or higher)
This course is for students whose primary language is not English and whose placement test scores indicate the need for instruction in basic vocabulary, study and literal comprehension skills. This course emphasizes the establishment of a foundation for academic literacy. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP0460  Intermediate Grammar (Dev Ed)
3 institutional credits (3 lecture hours)
Prerequisite: LOEP Composite test score of 86-95 or EAP0388 (with a grade of C or higher)
This course is designed for students whose primary language is not English and whose placement test scores indicate the need for instruction in basic grammar skills. The course emphasizes the mastery of grammar skills needed for academic purposes. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP1500  Speaking and Listening 2 (AA)
3 credits (3 lecture hours)
Prerequisite: LOEP Listening test score of 96-105 or EAP0400 (with a grade of C or higher)
This course will provide students with in-class experience to continue their development of listening and speaking skills. It will include continued development of English pronunciation skills and vocabulary, notetaking, class discussion and participation in a variety of informal and formal presentation situations including group discussion, making individual and group presentations, speaking persuasively, and defending an opinion. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP1520  High Intermediate Reading (AA)
3 credits (3 lecture hours)
Prerequisite: LOEP Composite test score of 96-105 or EAP0420 (with a grade of C or higher)
This course is designed for students whose primary language is not English and whose placement test scores indicate the need for intensive training in academic reading skills. The emphasis in this course will be on reading comprehension with additional exercises in listening and speaking skills. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP1584  High Intermediate English (AA)
3 credits (3 lecture hours)
Prerequisite: LOEP Composite test score of 96-105 or EAP0460 (with a grade of C or higher)
This course is designed for students whose primary language is not English and whose placement scores indicate the need for instruction in composing grammatically correct sentences and fully developed paragraphs using a variety of sentence types and rhetorical modes. It also covers more advanced vocabulary. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP1600  Advanced Speaking and Listening (AA)
3 credits (3 lecture hours)
Prerequisite: LOEP Listening test score of 106-115 or EAP1500 (with a grade of C or higher)
This course develops listening and speaking skills for mainstreaming ESL students into college and university classrooms. It will help advanced English pronunciation skills and vocabulary, note taking, class discussion, and expand rhetorical skills for effective academic communication. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.
EAP1620  Advanced Reading (AA)  
3 credits (3 lecture hours)  
Prerequisite: LOEP Composite test score of 106-115 or EAP1520 (with a grade of C or higher); Corequisite: SLS1501  
This course is designed for students whose primary language is not English and whose placement test scores indicate a need for the development of critical thinking skills through academic readings. Students will have the opportunity to read short, authentic English/ American works. Exercises and class discussions develop listening and speaking skills. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

EAP1684  Advanced English (AA)  
3 credits (3 lecture hours)  
Prerequisite: LOEP Composite test score of 106-115 or EAP1584 (with a grade of C or higher); Corequisite: SLS1501  
This course is designed for students whose primary language is not English and whose placement scores indicate the need for instruction in writing coherent, unified paragraphs and then using them to build effective essays. Students should expect to spend time outside of class week completing lab assignments in the Student Learning Center.

ECO2013  Principles of Macroeconomics (AA)  
3 credits (3 lecture hours)  
Prerequisite: Appropriate English and reading placement scores or course completion required to enroll in this General Education course.  
Supply and demand, mixed capitalist system, national income accounting, the business cycle employment and income determination, money and banking and fiscal and monetary policies. Demonstration of computer application is required. (*)

ECO2023  Principles of Microeconomics (AA)  
3 credits (3 lecture hours)  
Cost and revenue analysis, nature of markets (perfect competition, monopoly, oligopoly and monopolistic competition), and application of basic tools of economic analysis and public policy issues.

ECT2180  Curriculum Construction: Career and Technical Education (CTE) (AA)  
3 credits (3 lecture hours)  
Organization of instruction for career and technical teaching. Evaluation of career and technical education philosophy in determining objectives and constructing course materials in CTE programs. This course is designed to assist new Career and Technical Education (CTE) teachers on temporary certification, to develop or expand their skills in constructing a comprehensive curriculum for technical classrooms and laboratories.

EDF1030  Behavior Management in the Classroom (AA)  
3 credits (3 lecture hours)  
This course provides the student with a historical overview of classroom management theories from basic behavior modification through current trends. This class provides an eclectic approach to understanding the varied models and also includes a practical application of these principles to real classroom problems and management techniques. The course is designed to provide guidance for teachers in infant through secondary classrooms.

EDF2005  Introduction to the Teaching Profession (AA)  
3 credits (3 lecture hours)  
This course provides a survey of historical sociological and philosophical foundations of education; governance and finance of education; educational policies; legal, moral, and ethical issues; and the professionalism of teaching. Students will be provided exposure to the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. Students are required to complete a minimum of 15 hours of field observation in a K-12 setting.

EDF2085  Introduction to Diversity for Educators (AA)  
3 credits (3 lecture hours)  
This course provides the opportunity to explore issues of diversity, including an understanding of the influence of exceptionalities, culture, family, gender, socioeconomic status, religion, language of origin, ethnicity, and age upon the educational experience. Students will explore personal attitudes toward diversity and exceptionalities. Students will be provided exposure to the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. A minimum of 15 hours of field-based experience working with diverse populations of children and youth in schools or similar settings is required.

EDG1314  Education Practicum 1 (AS)  
3 credits (15 lab hours)  
Prerequisite: Completion of all required courses in an Early Childhood Education college credit certificate or AS degree  
This course provides the student with experience teaching in an approved early childhood classroom under the supervision of trained and approved instructors.
EDG1315  
**Education Practicum 2 (AS)**  
3 credits (15 lab hours)  
Prerequisites: EDG1314  
This course is a continuation of EDG1314. The student continues to work in the classroom planning activities and supervising children. In addition, emphasis is placed on the administrative responsibilities of operating a child care program; i.e., staff meetings, personnel records, staff evaluation, etc. Students will work in an approved child care setting 30 hours per week for 8 weeks (total 225 hours).

EDP2002  
**Introduction to Educational Psychology (AA)**  
3 credits (3 lecture hours)  
Prerequisite: PSY2012 (with a grade of C or higher) or permission of the instructor  
This course examines the psychological basis of educational theory and practice. Topics of study include developmental theories, psychological perspectives of the teaching-learning process, instructional design, and program evaluation.

EEC1001  
**Introduction to Early Childhood Education (AA)**  
3 credits (3 lecture hours)  
Theories, philosophies, programs and methods in early childhood education covering information required for the Florida child-care certification. Students completing the modules are eligible for the child-care workers certification required for child-care workers.

EEC1300  
**Early Childhood Language Arts (AS)**  
3 credits (3 lecture hours)  
This course is designed to instruct students in the preparation of classroom learning centers, in choosing and constructing suitable learning materials for art, music, sensorial and language and in methods of presentation in order to guide children in the proper use of these materials.

EEC1311  
**Early Childhood Science, Social Studies and Math (AS)**  
3 credits (3 lecture hours)  
This course is designed to instruct students in the preparation of classroom learning centers, in choosing and constructing suitable learning materials in the subject areas of mathematics, science, daily living, social studies and computer programs, and in methods of presentation in order to guide children in the proper use of these materials.

EEC1312  
**Early Childhood Fine Arts and Movement (AS)**  
3 credits (3 lecture hours)  
This course is designed to instruct students in the preparation of learning centers, in the choosing and constructing of learning materials, and in the methods of presentation to children in the curriculum areas of music, art, dramatic play, and fine and gross motor skills.

EEC1522  
**Infant/Toddler Environments (AS)**  
3 credits (3 lecture hours)  
The purpose of this course is to provide students an opportunity to study the infant/toddler care giving environment including the organization of space, interaction, activities, scheduling, and providing for staff and parents.

EEC1523  
**Overview of Child Care Center Management (AS)**  
3 credits (3 lecture hours)  
This course will meet the educational coursework requirement for the Foundational Level or one of the four curriculum areas approved for the Advanced Level of the Florida Child Care and Education Administrator Credential. This course will provide the child care administrator with a knowledge base and the opportunity to develop skills to effectively manage a quality child care program. This course is a competency based course comprised of three content areas: Administrative Organization, Financial and Legal Issues and Child Care and Education Programming.

EEC1601  
**Observation and Assessment in Early Childhood (AS)**  
3 credits (3 lecture hours)  
This course is designed to provide the child care professional with an overview of the importance of observation and assessment in planning developmentally appropriate programs for young children. The course covers the use of a variety of observation methods and developmentally appropriate assessment practices and instruments. Off campus observations are required.

EEC2002  
**Child Care and Education Organization Leadership Management (AS)**  
3 credits (3 lecture hours)  
This course is a requirement for the Florida Child Care and Education Program Administrator Credential-Advanced Level. Focus is on the major responsibilities of a childcare and education program administration in creating and sustaining an effective organizational structure in a childcare and education setting. Topics include organizational structure and dynamics, ethics and professionalism; personnel policies and procedures; leadership; staff development, evaluation and retention.
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<td>EEC2201</td>
<td>Developing Curriculum for Infants and Toddlers (AS)</td>
<td>3 (3:0)</td>
<td>The caregiver learns to match caregiver strategies and child development for specific age ranges. The student learns the developmental profiles and characteristics of infants/toddlers in a specific age range, lists materials, and learns strategies which may be used with individual children to promote development.</td>
</tr>
<tr>
<td>EEC2202</td>
<td>Child Care and Education Programming (AS)</td>
<td>3 (3:0)</td>
<td>This course is a requirement for the Florida Child Care and Education Program Administrator Credential-Advanced Level. Topics include developmentally and culturally appropriate environment and curriculum; professional standards; child observation, assessment, documentation and referral; health, safety and nutrition practices; alliances and families.</td>
</tr>
<tr>
<td>EEC2271</td>
<td>Teaching Children with Special Needs (AS)</td>
<td>3 (3:0)</td>
<td>A survey of information regarding children with special needs, including possible causes and characteristics of exceptionalities, educational intervention, available resources, referral processes, and the advocacy role and legislative issues.</td>
</tr>
<tr>
<td>EEC2407</td>
<td>Social-Emotional Growth and Socialization in Infants and Toddlers (AS)</td>
<td>3 (3:0)</td>
<td>The purpose of this course is to provide students an opportunity to utilize their knowledge and understanding of infant/toddler growth and development to foster social and emotional development in the infant and toddler. The student will learn to create nurturing relationships with the children in their care.</td>
</tr>
<tr>
<td>EEC2521</td>
<td>Child Care and Education Financial and Legal Issues (AS)</td>
<td>3 (3:0)</td>
<td>This course is a requirement for the Florida Child Care and Education Program Administrator Credential-Advanced Level. Topics include financial planning and ongoing monitoring; budgeting and accounting; compensation and benefits; facilities and equipment; financial resource development and marketing; technology and recording keeping; legal obligations, tax law, insurance and licensure; regulatory requirements; and personnel law.</td>
</tr>
<tr>
<td>EEC2710</td>
<td>Conflict Resolution in Early Childhood (AS)</td>
<td>3 (3:0)</td>
<td>Students will learn how to create safe, caring, and respectful environments for young children and their families, using techniques such as reflective listening, trust-building, and problem solving, to foster empathy, impulse control, and anger management in young children. Students will also learn to develop conflict resolution, violence prevention, and peace education programs for children and families.</td>
</tr>
<tr>
<td>EEC2734</td>
<td>Health, Safety, and Nutrition for the Young Child (AS)</td>
<td>3 (3:0)</td>
<td>This course provides an overview of the fields of health, safety, and nutrition as they relate to the young child and his/her family. Emphasis is placed on learning to incorporate current concepts in health, safety, and nutrition into a quality childcare setting.</td>
</tr>
<tr>
<td>EET1015C</td>
<td>DC Circuit Analysis (AS)</td>
<td>3 (2:0, 2:0)</td>
<td>Prerequisite: MAC1105 (with a grade of C or higher); Corequisite: PHY1001 (with a grade of C or higher) This course provides an introduction to the underlying principles of electronics that have contributed to advances in the fields of communications, computers, power and aerospace electronics. The fundamental laws and theorems governing DC electricity will be applied to basic series and parallel circuits. Laboratories utilize professional equipment to reinforce and apply theory.</td>
</tr>
<tr>
<td>EET1025C</td>
<td>AC Circuit Analysis (AS)</td>
<td>3 (2:0, 2:0)</td>
<td>Prerequisites: PHY1001 (with a grade of C or higher), EET1015C This course introduces the study of alternating current and voltage and examines its uses in applications such as motors, electrical power and filters. Theory is reinforced and supplemented using professional test equipment and simulations.</td>
</tr>
<tr>
<td>EET1084C</td>
<td>Electrical Circuits and Electronics (AS)</td>
<td>3 (2:0, 2:0)</td>
<td>Prerequisite: MAC1105 (with a grade of C or higher); Corequisite: PHY1001 (with a grade of C or higher) This course provides an introduction to the basic fundamentals, terminology and applications used in the electronics industry. Topics include circuit theory principles, electronic components, transistor usage, amplifiers, power supplies and digital logic techniques.</td>
</tr>
</tbody>
</table>
EET1141C  Analog Devices (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: EET1025C (with a grade of C or higher)
Studies history of electronics, semiconductors, diodes, diode rectifier circuits, zener, veractor, light emitting diodes (LED) and special diodes, bipolar transistors, small signal transistor amplifiers, power transistor amplifiers, and amplifier frequency response. Includes design of unregulated power supplies, transistor audio amplifiers, audio power amplifiers, audio oscillators, limiters, clamps and several other important circuits.

EET1142C  Analog Circuits (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: EET1141C (with a grade of C or higher)
Continuation of EET1141C Analog Devices. Includes operational amplifiers, active filters, mixers, oscillators, function generator, timers, YCOs, PLLs, industrial switching devices such as SUSs, SCRs, DIACs, SBSs, TRIACs, UJTs, linear and switching regulators, optoelectronic devices, vacuum tubes. Studies design of pre-amplifiers using operational amplifiers, oscillators, comparators and active filters using op-amps, linear regulated power supplies, switching power supplies and other circuits.

EET1161C  Introduction to Electronics (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: EET1015C, EET1025C (with a grade of C or higher)
This course will develop skill sets for testing, trouble-shooting, configuration/set up and analysis of electrical and electro-mechanical devices.

EET1610C  Through-Hole Surface Mount Soldering (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisite: EET1084C or EET1215C (with a grade of C or higher)
A course for electronic technicians which includes high reliability through-hole soldering techniques, current industry soldering inspection techniques, electrostatic discharge awareness and prevention, introductory surface-mount techniques and an introduction to rework and repair.

EET1611C  Standard Testing and Certification (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisite: EET1084C or EET1215C (with a grade of C or higher)
Preparation for Association Connection Electronics Industries (IPC) certification is the standard for electronics assembly manufacturing. Topics include IPC policies and procedures, wire and terminal assembly, through-hole soldering and termination, surface mounting components, and inspection skills. Upon successful completion, the student will be eligible and prepared for examination for IPCJ-STD-001 Certified IPC specialist (CIS) certificate.

EET2325C  Electronic Communications Systems (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: EET1084C or EET1215C or ETP1200 (with a grade of C or higher)
This course covers single sideband AM and FM transceivers, digital communication techniques, frequency allocation, microwave technology, lasers and fiber-optics, wave propagation, antennas and transmission lines.

EET2609C  Electronic Fabrication and Fiber Optics (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: EET1084C or EET1215C (with a grade of C or higher)
This course takes a hands-on approach to the soldering, wire wrapping, potting, crimping and cable placing of electronic components and the basics of fiber optics and the fabrication of fiber optic cable assemblies, using a variety of connectors and splicing techniques. Printed circuit construction and repair are also covered as well as cable installation and troubleshooting.

EET2620C  Advanced Surface Mount Soldering Technology (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisite: EET1610C (with a grade of C or higher)
An advanced hands-on surface mount soldering course focused on rework and repair techniques for electronic technicians.

EET2724C  Schematic Capture and Modeling (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: EET1084C or EET1215C (with a grade of C or higher)
This course affords the student with knowledge and skill in the use of schematic capture and printed circuit board layout software. Students will become proficient in the use of the computer as a developmental tool. Students will learn software used for computer-aided design (CAD).
EET2930C  Special Topics in Electrical Engineering (AS)
3 credits (1 lecture hour, 4 lab hours)
Prerequisites: CET2123C, ETS2520C, ETS2530C (with a grade of C or higher); Corequisites: CET2127C, ETS2700C (with a grade of C or higher)
This course teaches specific competencies related to electronic circuit analysis. It covers analog and digital electronic circuits. The content of the course is customized to meet the special technical training needs for professionals in the instrumentation and control field.

EEX2010  Introduction to Special Education (AA)
3 credits (3 lecture hours)
This course is an introduction to exceptional student education and includes basic information on etiology and characteristics as well as the programs and services provided to this population.

EGN1002C  Introduction to Engineering (AA)
3 credits (2 lecture hours, 2 lab hours)
Corequisite: MAC1105 (with a grade of C or higher)
This course is an introduction to the basic concepts and tools of the various engineering disciplines. This class provides a multidiscipline, collaborative approach in which the students build and demonstrate devices or apply computer modeling of engineering problems and report findings both in paper and presentation form.

EME2040  Introduction to Technology for Educators (AA)
3 credits (3 lecture hours)
This course will provide application of instructional design principles for the use of technology to enhance the quality of teaching and learning in the classroom. The course includes hands-on experience with educational media, emerging technologies, and hardware, software and peripherals for the personal computer as well as the data-driven decision-making processes. This course includes identification of appropriate software for classroom applications, classroom procedures for integrating technologies with emphasis on legal and ethical use, and effective instructional strategies for teachers and students in regard to research, analysis and demonstration of technology. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, the Professional Educator Competencies and the National Educational Technology Standards.

EMS0000  Public Safety Telecommunicator (PSAV)
232 clock hours
The course prepares students for employment as dispatcher for police, fire and ambulance agencies. The content includes, but is not limited to, ethics and the role of the telecommunicator; standard telecommunication procedures; overview of emergency agencies; communications equipment, functions and terminology; telephone and dispatching procedures and techniques; federal, state, and local communication rules; and emergency situations and operating procedures.

EMS1119  Emergency Medical Technician Basic (AS)
6 credits (6 lecture hours)
Prerequisites: Limited Access program application, Red Cross or AHA BLS for Health Care Provider (CPR); Corequisites: EMS1119L, EMS1431
This course provides a lecture component of the EMT program. The student will be taught how to conduct initial and ongoing patient assessments. Topics discussed include performing detailed history and physical exams, various traumas, medical and behavioral emergency situations.

EMS1119L  Emergency Medical Technician Basic Lab (AS)
3 credits (6 lab hours)
Corequisites: EMS1119, EMS1431
This course provides the practical application of the didactic instruction received in EMS1119 and EMS1431 and is an integral component of the EMT-Basic program. It is designed to provide the student with exposure to pre-hospital emergency medicine, automatic external defibrillation, extrication, management of trauma and medical emergencies. Students address medical/legal/ethical issues and will learn how to interact within the EMS system.

EMS1158C  Emergency Medical Technician (AS)
11 credits (7 lecture hours, 6 lab hours)
This applied technology diploma program course is designed to prepare the student for the Florida State Board Examination for Emergency Medical Technician-Basic. EMT-Bs serve as a link in the chain of the health care team. It is recognized that the majority of pre-hospital emergency medical care will be provided by the EMT-Bs. This includes all skills necessary for the individual to provide emergency care at a basic life support level with an ambulance service or other emergency services agency. Classroom study, practical laboratory experience and clinical internship equip the student with the skills in patient assessment, cardiopulmonary resuscitation (CPR), oxygen therapy, shock prevention, bandaging, splinting, spinal immobilization and vehicle extrication that are necessary for a career in out-of-hospital or in-hospital emergency medicine.
EMS1431  EMT-Basic Hospital and Field Experience (AS)
2 credits (6 clinical hours)
Corequisites: EMS1119, EMS1119L
This class is designed to provide the EMT-Basic student with exposure to pre-hospital emergency medicine, with an emphasis on the knowledge and skills presented in EMS1119 and EMS1119L. Under the direct supervision of an assigned preceptor or professional paramedic, the EMT-Basic student will be able to practice in the local emergency departments and rescue agencies the knowledge and skills presented in EMS1119 and EMS1119L.

EMS2620C  Paramedic 1 (AS)
12 credits (9 lecture hours, 6 lab hours)
Prerequisite: Florida State EMT certification (or State exam eligible*), which must be passed during EMS2620C). *Subject to State changes; Corequisite: EMS2664
This is the first of three, limited access didactic/lab, courses in the Paramedic program. It will cover Modules I, II, and III of the U.S. D.O.T. 1998 EMT-P National Standards Curriculum, as well as CPR, Anatomy and Physiology, and basic ECG interpretation.

EMS2621C  Paramedic 2 (AS)
12 credits (9 lecture hours, 6 lab hours)
Prerequisites: EMS2620C, EMS2664; Corequisite: EMS2665
This is the second of three, limited access didactic/lab, courses in the Paramedic Program. It will cover Modules IV and V of the U.S. D.O.T. 1998 EMT-P National Standards Curriculum, as well as ACLS, ITLS and 12 Lead ECG.

EMS2622C  Paramedic 3 (AS)
5 credits (3 lecture hours, 4 lab hours)
Prerequisites: EMS2621C, EMS2665; Corequisite: EMS2658
This is the third of three, limited access didactic/lab, courses in the Paramedic Program. It will cover Modules V, VI, VII and VIII of the U.S. D.O.T. 1998 EMT-P National Standards Curriculum, as well as PALS.

EMS2658  Paramedic Clinical 3 (AS)
2 credits (6 clinical hours)
Prerequisites: EMS2621C (with a grade of C or higher), EMS2665; Corequisite: EMS2622C (with a grade of C or higher)
This is the third of four, limited access clinical rotations, in the Paramedic Program. Based upon knowledge and skills being taught in EMS2622C, the paramedic student will participate in various selected hospital and pre-hospital EMS provider rotations. The student will be responsible for patient care under the direction of Clinical Instructors and Paramedic Preceptors.

EMS2659  Paramedic Field Internship (AS)
1 credits (8 clinical hours)
Corequisites: EMS2622C, EMS2658
This is the final limited access clinical rotation in the Paramedic Program. One hundred percent of the student's time will be in the pre-hospital EMS field, responding on Advanced Life Support emergency vehicles, under the direction of a Paramedic Preceptor. A Paramedic Program Clinical Instructor will serve as the liaison between the EMS provider agency and the Paramedic Program staff at Palm Beach State. A passing score on a program wide comprehensive final exam is required by Florida State Statute to pass the program.

EMS2664  Paramedic Clinical 1 (AS)
4 credits (12 clinical hours)
Prerequisite: Florida State EMT certification (or state exam eligible), which must be passed prior to EMS2621C); Corequisite: EMS2620C
This is the first of four, limited access clinical rotations, in the Paramedic Program. Based upon knowledge and skills being taught in EMS2620C, the paramedic student will participate in various selected hospital and pre-hospital EMS provider rotations. The student will be responsible for patient care under the direction of Clinical Instructors and Paramedic Preceptors.

EMS2665  Paramedic Clinical 2 (AS)
6 credits (12 clinical hours)
Prerequisites: EMS2620C, EMS2664; Corequisite: EMS2621C
This is the second of four, limited access clinical rotations, in the Paramedic Program. Based upon knowledge and skills being taught in EMS2621C, the paramedic student will participate in various selected hospital and pre-hospital EMS provider rotations. The student will be responsible for patient care under the direction of Clinical Instructors and Paramedic Preceptors.

ENC0017  College Reading and Writing (Dev Ed)
4 institutional credits (4 lecture hours)
Prerequisite: Non-Exempt students will need to provide CPT score of 0-82 (SS/RC) or PERT score of REA 50-105 and/or ENG 50-102; Corequisite: SLS1501
An integrated reading and writing course focusing on critical reading and writing skills required for college-level course work.
ENC0050 College Grammar Essentials (Dev Ed)
2 institutional credits (2 lecture hours)
A college writing course focused on standard/academic English grammar rules and the mechanics of writing with a brief overview of sentence errors.

ENC0051 College Sentence Essentials (Dev Ed)
2 institutional credits (2 lecture hours)
This course provides preparation for all college courses that require written communication skills by focusing on developing effective sentence skills and the avoidance of common sentence errors that weaken a writer's ability to communicate, especially in an academic setting. Students should expect to spend time outside of class each week completing assignments in the Student Learning Center.

ENC0052 College Writing Essentials (Dev Ed)
2 institutional credits (2 lecture hours)
Prerequisite: PERT (Writing) scores 90-102; Corequisite: SLS1501
A college writing course focused on the structure and development of paragraphs and essays and the transition from paragraphs to essays.

ENC1101 College Composition 1 (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate English and reading placement test scores or exemption from placement testing. Designated ESL students must complete EAP1620 and EAP1684 (with a grade of C or higher)
Course includes fundamentals of expository writing, rhetorical patterns and a review of mechanics, syntax and grammar. Successful students should demonstrate strategies in planning and drafting an essay, developing a thesis, using effective diction and sentence structure, using conventional syntax and observing conventions of Standard English. (*)

ENC1102 College Composition 2 (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Course teaches skills and techniques for critical, persuasive and research writing. Also included are styles and tone of non-fiction and interpretation of literature. After successfully completing the course, students should demonstrate increased proficiency in writing; analyze and compose non-fictional prose; and write persuasive, critical and research essays. (*)

ENC1141 Writing About Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
This course, recommended for potential English majors, is designed to develop abilities to analyze and interpret short stories, novels, plays and poems and to write about these literary forms critically, responsively, and persuasively. (*)

ENC1210 Technical Communication (AS)
3 credits (3 lecture hours)
Prerequisite: ENC0010 or adequate score on the placement exam.
Students learn basic applied, technical communication, including audience analysis; basic letters, memos and emails; incident, progress, and travel reports; research; proposals; and elements of longer reports including abstracts, tables of contents, and appendices. Students apply design principles to documents, illustrations, PowerPoint presentations, and web sites. Students test, revise and edit all work.

ENL2012 English Literature Before 1800 (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Students will study writings produced in the British Isles from the beginnings to 1800 and work on developing appreciation for major writers and their influences. Concurrently, students will focus on reading, interpreting and discussing the literature critically. Through this process, students will have deepened understandings of what being human means. (*)

ENL2022 English Literature After 1800 (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Students will study writings produced in the British Isles from 1800 to the present and work on developing an appreciation for major writers and their influences. Concurrently, students will focus on reading, interpreting and discussing the literature critically. Through this process, students will have deepened understandings of what being human means. (*)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT1000</td>
<td>Fundamentals of Entrepreneurship (AA)</td>
<td>3</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Students will learn about the entrepreneurial process and the role of entrepreneurship in the economy. Topics include starting and running a business, idea and product development, building a business model, marketing research, team building, basic business plan development, and funding opportunities.</td>
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<tr>
<td>ENT2010</td>
<td>New Venture Management (AS)</td>
<td>3</td>
<td>(3)</td>
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<td></td>
<td>Prerequisite or Corequisite: ENT1000</td>
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<td></td>
<td>In this course, students will learn the knowledge and skills necessary to successfully plan, design, and manage a new business venture.</td>
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<tr>
<td>ENT2112</td>
<td>Planning the Entrepreneurial Venture (AS)</td>
<td>3</td>
<td>(3)</td>
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<td></td>
<td>Prerequisite or Corequisite: ENT1000</td>
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<td>In this course, students will develop the skills necessary to create a new business venture. They will learn the process of starting a new venture, growing the venture, and successfully harvesting and maintaining it. Students will also plan, prepare, and present a business plan for the purpose of launching and funding an entrepreneurial venture.</td>
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<tr>
<td>ENT2120</td>
<td>Entrepreneurship Marketing and Selling (AS)</td>
<td>3</td>
<td>(3)</td>
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<td>Prerequisite or Corequisite: ENT1000</td>
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<td>In this course, students will acquire the skills to successfully plan and research the marketing aspects of launching a new business venture. Students will analyze marketing opportunities, research target markets, develop a marketing strategy, and develop brand positioning. Students will learn how to develop new products and services and provide a foundation for establishing pricing strategies. Online marketing tools will also be explored. Students will write a comprehensive marketing plan for a new business venture.</td>
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<tr>
<td>ENT3413</td>
<td>Venture Finance for Entrepreneurship (BAS)</td>
<td>3</td>
<td>(3)</td>
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<td></td>
<td>This course covers various aspects of financing an entrepreneurial venture. Major topics include attracting seed and growth capital from sources such as venture capital, investment banking, government, and commercial banks. Among the issues discussed are valuing a company, going public, selling out, acquisitions, bankruptcy, different legal forms of organization, partnerships, and taxes.</td>
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<tr>
<td>ENT4013</td>
<td>Planning New Ventures (BAS)</td>
<td>3</td>
<td>(3)</td>
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<tr>
<td></td>
<td>This course will expose students to basic entrepreneurial finance and the principles of business planning. Students have the opportunity to complete a business plan for the creation of a new venture. In the process of development, they will identify new emerging opportunities for providing goods and services, demonstrate the need for such goods or services through market research, and develop financial statements for the proposed venture. The course will then trace new venture creation from the first perception of an opportunity to the point of value realization. This will include testing/adapting the business concept, developing a business plan, defining a market and distribution plan, gathering resources, and raising finance.</td>
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<tr>
<td>ENT4114</td>
<td>Advanced Business Planning (BAS)</td>
<td>3</td>
<td>(3)</td>
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<td>This course focuses on the critical decisions and action steps that entrepreneurs must make in both planning and initiating a new venture. Students develop new venture implementation plans and learn how to manage their execution.</td>
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<tr>
<td>ENT4214</td>
<td>Entrepreneurship Leadership (BAS)</td>
<td>3</td>
<td>(3)</td>
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<td>This course is focused on exposing students to entrepreneurial leaders and experiences that have led to their success and failures. Additionally, students will be exposed the ideas and experiences that have shaped successful entrepreneurs in their personal businesses. That knowledge will give students a greater opportunity for success in their own ventures or to share those in their work environment.</td>
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<tr>
<td>ENT4704</td>
<td>International Entrepreneurship (BAS)</td>
<td>3</td>
<td>(3)</td>
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<td>International Entrepreneurship is a survey course examining the key elements of the international entrepreneurial venture. The learning perspective will be that of the global entrepreneur, one whose business is &quot;born global&quot; and who may capitalize upon resources from anywhere.</td>
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</table>
ENT4900  Capstone Experience: Entrepreneurship (BAS)  
3 credits (3 lecture hours)  
Prerequisite: This course should be taken during the last semester of the program, and requires Bachelor's department approval. This final course emphasizes entrepreneurship practices and research. Students will explore the risks and rewards of business ventures through contemporary entrepreneurial theories learned throughout the program. The course culminates in the program level project designed to incorporate theoretical knowledge in to the development of an innovative business plan.

EPI0001  Classroom Management (IC)  
3 credits (3 lecture hours)  
Prerequisites: Bachelor's degree and 2.5 GPA  
This course provides the participant to set up a classroom, establish classroom policies and procedures, create objective-based lesson plans that integrate Sunshine State Standards, identify various teaching strategies and presentation styles, and manage behavior problems in the classroom. Students will also develop methods to maintain cooperative relations with all stakeholders in the educational process and review legal obligations of the teaching profession.

EPI0002  Instructional Strategies (IC)  
3 credits (3 lecture hours)  
Prerequisites: Bachelor's degree and 2.5 GPA  
This course provides the participant to proficiently apply a variety of curriculum design models, instructional strategies, presentational styles, and assessment methods. Participants will also develop and apply to instruction effective accommodations for exceptional students.

EPI0003  Educational Technology (IC)  
3 credits (3 lecture hours)  
Prerequisites: Bachelor's degree and 2.5 GPA  
This course provides the participant to integrate technology into the learning process. The participant will practice methods of keeping computer-based records, developing multimedia presentations, technologically enhancing content area instructional strategies, utilizing Internet resources, designing Webquests, employing computer-aided instruction, and following copyright and fair use guidelines.

EPI0004  The Teaching and Learning Process (IC)  
3 credits (3 lecture hours)  
Prerequisites: Bachelor's degree and 2.5 GPA  
This course provides the participant with a foundation in various learning theories as applied to the instructional process. The participant will define, cite examples of, and utilize principles of stages of development, learning theories, motivation and persistence, intelligence, exceptionalities, standardized testing, critical thinking, multiple intelligences, and second language acquisition to create effective learning environments and to choose appropriate instructional strategies.

EPI0009  Foundations in Language and Cognition in Reading (IC)  
3 credits (3 lecture hours)  
This course teaches language structure and function, and cognition of phonemic awareness, phonics, fluency, vocabulary, and comprehension. Instruction is grounded in scientifically-based research.

EPI0010  Foundations of Research-Based Practices in Reading (IC)  
3 credits (3 lecture hours)  
Prerequisites: Bachelor's degree and 2.5 GPA  
This course provides the participant with substantive knowledge of language structure and function as well as reading strategies for the content area classroom. The participant will identify, illustrate, and utilize principles of phonemic awareness, fluency, building vocabulary, instructional texts, metacomprehension, instructional practices and strategies, diverse learners, and electronic texts to create effective reading practices.

EPI0011  Foundations of Assessment in Reading (IC)  
3 credits (3 lecture hours)  
Prerequisite: EPI0009 or EPI0010 (with a grade of C or higher) or accepted documentation of Reading Competency 1 and Reading Competency 2  
This course teaches the role of assessments in guiding reading instruction and instructional decision-making for reading progress.

EPI0020  Professional Foundations (IC)  
2 credits (2 lecture hours)  
Prerequisites: Bachelor's degree and 2.5 GPA  
This course provides the participant with the foundation for becoming a productive member of the teaching profession. Topics include: history and philosophy of teaching, school governance, school finance, school law, ethics and excellence, school purpose, and continuing professional development.
<table>
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<tr>
<th>Course Code</th>
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<th>Prerequisites/Requirements</th>
</tr>
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<tbody>
<tr>
<td>EPI0030</td>
<td>Diversity in the Classroom (IC)</td>
<td>2</td>
<td>Bachelor's degree and 2.5 GPA; This course provides the participant with an understanding of the variety of backgrounds and cultures that may be found in a diverse classroom. Topics include: social class, religions, language, gender differences, culture and ethnicity, physical differences, prejudice and multicultural teaching.</td>
</tr>
<tr>
<td>EPI0940</td>
<td>Field Experience 1 (IC)</td>
<td>1</td>
<td>Bachelor's degree and 2.5 GPA; Corequisite: EPI0020 (with a grade of C or higher)</td>
</tr>
<tr>
<td>EPI0945</td>
<td>Field Experience 2 (IC)</td>
<td>1</td>
<td>Bachelor's degree and 2.5 GPA; Corequisite: EPI0030 (with a grade of C or higher)</td>
</tr>
<tr>
<td>EPI0950</td>
<td>Teaching Methods Practicum (IC)</td>
<td>2</td>
<td>Bachelor's degree and 2.5 GPA</td>
</tr>
<tr>
<td>EPI1933</td>
<td>Applied Career and Technical Education Competencies (AS)</td>
<td>6</td>
<td>EPI0001, EPI0002 (with a grade of C or higher)</td>
</tr>
<tr>
<td>ESC1000</td>
<td>Earth Science (AA)</td>
<td>3</td>
<td>This introductory survey course examines physical aspects and processes of the Earth, including human involvement, leading to a comprehensive understanding of the planet. Earth is discussed as a system within a larger system, our solar system and the universe. A multi-discipline approach is utilized (geology, chemistry, physics, oceanography, meteorology, cosmology). (*)</td>
</tr>
<tr>
<td>ETD1031</td>
<td>Introduction to Construction Drawing (AS)</td>
<td>3</td>
<td>Provides students with basic information on purpose, use, importance, and preparation methodology of drawings for new buildings.</td>
</tr>
<tr>
<td>ETD2320C</td>
<td>Introduction to AutoCAD (AS)</td>
<td>3</td>
<td>2 lecture hours, 2 lab hours</td>
</tr>
<tr>
<td>ETD2340C</td>
<td>AutoCAD 2 (AS)</td>
<td>3</td>
<td>2 lecture hours, 2 lab hours; Prerequisite: ETD2320C (with a grade of C or higher)</td>
</tr>
<tr>
<td>ETD2364C</td>
<td>SolidWorks Fundamentals (AS)</td>
<td>3</td>
<td>2 lecture hours, 2 lab hours; Prerequisite: ETD2320C (with a grade of C or higher)</td>
</tr>
</tbody>
</table>

(*) Earth Science (AA)
ETD2371C  Introduction to 3D Printing (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ETD2364C (with a grade of C or higher)  
This course provides an introduction to 3D printing and 3D scanning. This course builds on the existing knowledge of creating and exporting STL files in different CAD software. Students will become familiar with the processes and procedures to 3D scan objects using multiple 3D scanners, and to 3D print (both additive and subtractive printing) using multiple 3D printers. Usage of these technologies in the industry will also be introduced.

ETD2372C  Advanced Rapid Prototyping (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ETD2371C (with a grade of C or higher)  
This course builds upon ETD2371C with more advanced project applications. Students will explore simulation and design analysis of rapid prototyping. Students will be exposed to current industry practices and the latest technologies through a cooperation with local industry. Students will be able to showcase their creativity, design abilities, and scanning and printing skills through problem solving projects utilizing a variety of 3D printers and scanners and CAD software. Students will be required to work together as a community of designers and prototypers, providing feedback, advice, critique, and guidance to their classmates.

ETD2941  Engineering Technology Internship (AS)  
3 credits (15 lab hours)  
Prerequisites: EET1084C (or EET1215C), ETD2320C, ETI1701, ETI1830, ETI2110, ETM1010C (with a grade of C or higher)  
This course is a structured and supervised internship for students in the Engineering Technology program of study. On the job experience will be integrated with scheduled class meetings to review and compare work experiences with respect to workplace skills and technical expectations.

ETD2950C  Special Topics in Engineering Technology (AS)  
3 credits (1 lecture hour, 4 lab hours)  
Prerequisites: EET1084C (or EET1215C), ETD2320C, ETI1701, ETI1830, ETI2110, ETM1010C (with a grade of C or higher)  
The capstone course is designed for the student to demonstrate knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concert with the area of curriculum emphasis.

ETI1000  Industrial Tools and Equipment (AS)  
3 credits (3 lecture hours)  
Prerequisite: ETI1701  
This course teaches the skills necessary to properly select, inspect, use, and care for the tools, test equipment, and lifting/handling equipment commonly used in the performance of assigned tasks in an industrial plant setting.

ETI1622  Concepts of Lean Manufacturing and Six Sigma (AS)  
2 credits (2 lecture hours)  
This course provides a comprehensive overview of the Lean and Six Sigma methodologies including the Define, Measure, Analyze, Improve and Control (DMAIC) process improvement paradigm, techniques, tools and metrics that are critical for process improvement success. The course will include demonstration and use of Lean and Six Sigma tools.

ETI1701  Environmental Health and Safety (AS)  
3 credits (3 lecture hours)  
This course covers the supervisory and management roles in environmental, health and safety practices and procedures in manufacturing, construction, or other industrial settings.

ETI1830  Materials and Processes 1 (AS)  
3 credits (3 lecture hours)  
This course covers the physical properties and characteristics of common materials and commodities used in the aerospace industry. Materials compatibility, basic metallurgy and treatment processes are also covered.

ETI1933-A  Applied Technologies - Automotive Services (AS)  
25 credits (25 lecture hours)  
Prerequisites: Successful completion of Automotive Service Technology 1 PSAV 5463 and Automotive Service Technology 2 PSAV 5458 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree. This course acknowledges articulation credits for those students who complete Automotive Service Technology 1 PSAV 5463 and Automotive Service Technology 2 PSAV 5458 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.
ETI1933-B  Applied Technologies - Cosmetology (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Cosmetology PSAV 5357 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Cosmetology PSAV 5357 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-C  Applied Technologies - Diesel Technology (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Diesel Technology 1 PSAV 5468 and Diesel Technology 2 PSAV 5457 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Diesel Technology 1 PSAV 5468 and Diesel Technology 2 PSAV 5457 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-D  Applied Technologies - Heating, Ventilation, Air Conditioning and Refrigeration (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Heating, Ventilation, Air Conditioning and Refrigeration PSAV 5267 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Heating, Ventilation, Air Conditioning and Refrigeration PSAV 5267 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-E  Applied Technologies - Machining Technology (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Machining Technology PSAV 5459 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Machining Technology PSAV 5459 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-F  Applied Technologies - Welding Technology (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Welding Technology PSAV 5460 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Welding Technology PSAV 5460 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-G  Applied Technologies - Apprenticeship (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of a Palm Beach State College PSAV Apprenticeship program (Brick & Block Masonry-5254, Electrical-5170 and 5257, Fire Sprinkler-5265, HVAC Tech-5266, and Plumbing-5174) and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete a Palm Beach State PSAV Apprenticeship program (Brick & Block Masonry-5254, Electrical-5170 and 5257, Fire Sprinkler-5265, HVAC Tech-5266, and Plumbing-5174) in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-H  Applied Technologies - Heavy Equipment Mechanics (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Heavy Equipment Mechanics PSAV 5456 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Heavy Equipment Mechanics PSAV 5456 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI1933-I  Applied Technologies - Facilities Maintenance (AS)
25 credits (25 lecture hours)
Prerequisites: Successful completion of Facilities Maintenance PSAV 5248 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree.
This course acknowledges articulation credits for those students who complete Facilities Maintenance PSAV 5248 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.
25 credits (25 lecture hours)
Prerequisites: Successful completion of Security and Automation Systems Technician PSAV 5249 coursework and the successful completion of 12 credits toward the Industrial Management Technology AS degree
This course acknowledges articulation credits for those students who complete Security and Automation Systems Technician PSAV 5249 at Palm Beach State in the Trade and Industrial area and are now applying these contact hours to the Industrial Management Technology AS degree. This course is for internal Palm Beach State record keeping only.

ETI2110  Introduction to Quality Assurance (AS)
3 credits (3 lecture hours)
Familiarization and training in application and effective utilization of tools for Total Quality Management (TQM) including process development, evaluation, improvement, and project leadership with special emphasis on statistical theory and methods that have proven effective in manufacturing and service organizations.

ETI2121C  Non-Destructive and Destructive Testing (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ETI1701, ETI1830, ETI2851C (with a grade of C or higher)
This course covers the history, the advantages and disadvantages of non-destructive testing (NDT), the applications of NDT, and the new developments in non-destructive evaluation (NDE). Topics include detecting discontinuities in components during material processing, introduction to destructive testing, and the use of equipment, such as hardness testers and other testing equipment to perform the methods used in NDT.

ETI2851C  Applied Mechanics (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ETI1701, ETI1830 (with a grade of C or higher)
This course takes a hands-on approach to the identification, uses and care of tools and equipment used in aerospace systems. Blueprint reading, geometric dimensioning and tolerancing, and English and metric measuring systems are included.

ETI2941  EPT Internship (6 credits) (AS)
6 credits (30 lab hours)
Prerequisites: EET1025C, ETI1000, ETP1200 (with a grade of C or higher)
This course offers an internship in Electronic Engineering Technology with the purpose of providing the student with supervised work experience at a cooperating enterprise.

ETI2942  EPT Internship (3 credits) (AS)
3 credits (15 lab hours)
Prerequisites: EET1025C, ETI1000, ETP1200 (with a grade of C or higher)
Experience in the administrative and organizational part of Power Generation.

ETM1010C  Mechanical Measurements and Instruments (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ETI1701 (with a grade of C or higher)
This course provides the basic foundation for mechanical measurement techniques used in manufacturing environments. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, gauges, and other types of measuring equipment.

ETP0450  Solar Photovoltaic Systems Installer (PSAV)
150 clock hours
Corequisites: BCV0830 (with a grade of C or higher), VPI0100, VPI0200, VPI0300
This course includes Solar Photovoltaic (PV) System Design, Installation and Maintenance program which is to present information that will assist the sustainable industry in increasing the number and skill level of workers who are available to meet the workforce needs for current and emerging alternative energy industries.

ETP1200  Power Plant Science (AS)
3 credits (3 lecture hours)
This course teaches the fundamental techniques in the study of power plant science. Coursework covers the broad spectrum of power plant theory which encompasses basic chemistry, electrical, mathematics, physics, heat transfer, thermodynamics, fluid flow and communication. Additionally, the student is provided the basic science of wind, solar and hydro energy production.

ETP1220  Power Plant Fundamentals (AS)
3 credits (3 lecture hours)
This course teaches the theory of operation of power plants. Additionally, the student is presented with instruction in theory, chemistry and equipment to understand how a power plant works.
ETP1400C  Distributed Electric Power Generation and Storage (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisite: EET1084C or EET1215C or ETP1200 (with a grade of C or higher)
Introduction to distributed electric power generation and storage background, essential theory and principles. Includes photovoltaic system components and configurations, panel assembly, introduction to microturbines, theory of operation, installation, operation, checkout, maintenance, troubleshooting and repair. Examination of electrical design, building-integrated photovoltaic products, microturbine fuels and fuel systems, fuel system interfacing, fuel gas compressors, chemical processes, performance monitoring, supervisory control and data acquisition.

ETP1402  Introduction to Solar Energy (AS)
3 credits (3 lecture hours)
Prerequisite: ETP1200 or EET1215C or EET1084C (with a grade of C or higher)
Solar energy is a rapidly growing sector of the energy market. The course is a guide to the design, installation and evaluation of residential and small commercial solar energy systems. The course covers both photovoltaics and solar thermal applications. Content includes system advantages, disadvantages, site selection, component operations installation requirements and recommended practices.

ETP1510C  Biofuels and Biomass (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ETP1511C (with a grade of C or higher)
This course provides students with the basic principles of biofuels and biomass systems design and installation. Students in this course will identify biofuels and biomass fuel sources (organic matter); describe biofuels and biomass technologies, applications and efficiency; analyze biofuels and biomass manufacturing, distribution and integration issues; evaluate biogas and the sources and site location; design a biofuels and biomass system and the related components; and identify various microturbines and the components.

ETP1511C  Introduction to Bio Fuels (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ETP1200 or EET1215C or EET1084C (with a grade of C or higher)
Introduction to Bio Fuels studies the nature of biofuels, particularly ethanol and biodiesel. Feedstocks, processing methods, fermentation/distillation and purification are considered. A detailed economic and environmental impact analysis is performed to determine the effects of renewable energy on the commercialization of these new global energy sources.

ETP1530C  Introduction to Wind Energy (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ETP1200 or EET1215C or EET1084C (with a grade of C or higher)
The wind energy industry is the fastest growing segment of renewable energy production in North America experiencing a 25% annual growth. This is an introductory course in surveying the advantages and disadvantages of wind power. Site surveys, wind charts, and efficiency ratings for small and large wind turbines are presented and discussed. Both stand alone and grid connected systems will be presented.

ETP1540  Introduction to Hydro Power (AS)
3 credits (3 lecture hours)
Prerequisite: ETP1200 or EET1215C or EET1084C (with a grade of C or higher); This course deals with the harvesting energy from water. It addresses the availability of resources, types of systems in common use and the processes of setting up such systems. Other related subjects such as turbine design, efficiency, limitation and costs are discussed.

ETP2137C  Electrical Distribution Substations (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ETP1200 (with a grade of C or higher)
This course focuses on electric substation installation and operation of equipment for changing voltage, switching circuits, regulating output levels, interrupting faults and providing communication control functions. The student will demonstrate an understanding of blueprint reading for substation layouts and one-line electrical diagrams. The student will study and be able to identify substation equipment and discuss substation operation, supervisory control and data acquisition applications, switching and maintenance. The student will demonstrate proficiencies in substation regulator operation, bus tie operations, recloser operation and tagging operations.

ETP2410C  Photovoltaic Technology (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisite: EET1084C or EET1215C or ETP1200 (with a grade of C or higher)
A study of photovoltaic (PV) electricity systems including theory of operation, site selection/survey, system components, system sizing, mechanical installation and electrical hookup of grid tied/utility interactive and stand alone systems.
ETS1810C  Energy Efficient Buildings (AS)  
3 credits (2 lecture hours, 2 lab hours)  
This course is designed to introduce students to the benefits and barriers of commercial building energy efficiency through an in-depth look into EPA’s ENERGY STAR program. Topics will include but are not limited to: current trends in commercial building energy efficiency, transforming the market with ENERGY STAR, ENERGY STAR Guidelines for Energy Management, rating building energy efficiency with Portfolio Manager, best energy efficiency practices, engaging employees in energy conservation, and tracking energy savings and greenhouse emissions reductions over time. This course will include hands-on learning opportunities such as measuring the energy use of an actual building and identifying energy efficiency opportunities.

ETS2520C  Process Measurement Fundamentals (AS)  
2 credits (1 lecture hour, 2 lab hours)  
Prerequisite: EET1215C or EET1084C (with a grade of C or higher)  
This course teaches the typical measurements made in industrial measurement and control loops. The basic physics involved in the measurements is covered, as well as the common types of sensors used in industry. Pressure, temperature, flow, level, and analytical measurement theory is emphasized.

ETS2530C  Process Control Technology (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: EET1215C (with a grade of C or higher); Corequisite: ETS2520C (with a grade of C or higher)  
This course teaches theory and applications in industrial process control loops. Common process loops are developed, the physics is covered, and loop tuning methods are used to analyze process response. Process control models are used to show the advantages and disadvantages of the common types control methodology used for loop tuning.

ETS2700C  Fluid and Pneumatic Controls (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: ETS2530C (with a grade of C or higher)  
This course teaches familiarization with pneumatic control theory and the typical pneumatic devices in use today in power plants. It makes an emphasis in pneumatically controlled and operated final control elements and positioners.

EVR1001  Introduction to Environmental Science (AA)  
3 credits (3 lecture hours)  
This course includes an overview of current environmental concerns. Emphasis is placed on the application of biological, ecological, physical, and chemical principles to the understanding of solutions to environmental problems and to achieving sustainability. (*)

EVR1007  Florida’s Environmental History (AA)  
3 credits (3 lecture hours)  
This course examines the formation of the area presently known as Florida and traces the history of significant environmental developments, particularly those that are consequences of human impact. Focus is on geologic history, pre-human history, period of early man, and period of modern man.

EVR2266  Survey of Environmental Mapping/GIS/Remote Sensing (AA)  
3 credits (3 lecture hours)  
Provides students with a survey in fundamental mapping skills, geographic information systems, and remote sensing technologies.

EVR2858  Environmental Law (AA)  
3 credits (3 lecture hours)  
This course familiarizes the student with major legislation relating to the environment. Local, state, and federal laws will be included. Habitat destruction, endangered species, environmental contamination, and pollution will be discussed. Students will be trained in how to obtain the text of current legislation.

EVR2940  Cooperative Work Experience-Environmental Science (AA)  
3 credits (24 lab hours)  
Hands-on work experience as a volunteer assigned by the college to an appropriate cooperating office(s) or agency(ies). Hours and schedule are mutually determined by the student, cooperating office(s)/agency(ies), and the college. Final written and oral reports are required.

EVS2015  Writing for Science (AA)  
3 credits (3 lecture hours)  
Prerequisite: ENC1101 (with a grade of C or higher)  
Technical writing with an emphasis on scientific reports and documents is covered including the review of literature and analysis of technical reports. Translating technical language into non-technical language for presentation to the general public is also covered.
EVS2020  Scientific Monitoring and Data Methods (AA)  
3 credits (3 lecture hours)  
Prerequisite: ENC1101 (with a grade of C or higher)  
Basic computer literacy including spreadsheet, database, word processing, PowerPoint, e-mail, and Internet research skills are covered. The interpretation of charts, graphs, and maps and the use of the metric system of measurement also included.

EVS2193C  Environmental Sampling Techniques (AA)  
4 credits (3 lecture hours, 2 lab hours)  
This course will provide an overview of the proper procedures and techniques used to collect samples of data from a variety of environmental matrices including water, soil, air and industrial areas. Basic lab skills and instrumentation and equipment calibration and maintenance will be stressed.

EVS2601  Hazardous Materials and Environmental Air Quality (AA)  
3 credits (3 lecture hours)  
An introduction to characteristics of hazardous materials; determination of work site hazards; understanding the Safety Diamond; using Material Safety Data Sheets; and HAZWOPER training. Also, an introduction to air quality, building materials, and hands-on laboratory work in air and waste sampling.

EVS2870C  Wildlife Ecology (AA)  
4 credits (3 lecture hours, 2 lab hours)  
Prerequisite: EVR1001 (with a grade of C or higher)  
This course familiarizes the student with the basic ecology of vertebrate and invertebrate wildlife and their relationships to their native Florida environments. Standard survey, analyses, and wildlife and land management techniques are also covered. Hands-on experience in ecological data collection will be emphasized.

FFP0010  Firefighter 1 (PSAV)  
228 clock hours  
Firefighter 1 covers safety; fire behavior; construction; PPE; SCBA; extinguishers; knots; search and victim removal; forcible entry; construction; ladders; ventilation; water supply; fire hose; carrying and advancing hose; water streams; special fire control; sprinkler systems; salvage, overhaul and protecting evidence; fire communications; fire prevention, public education and Haz-Mat training. The student can obtain a Firefighter 1 certification.

FFP0020  Firefighter 2 (PSAV)  
222 clock hours  
The student will acquire the Florida requirements for firefighter certification. Subjects follow Bureau of Fire Services requirements. Includes: incident management system, construction and building collapse, rescue tools, vehicle extrication, hydrant flow, foam fire systems, ignitable liquid and gas fire control, fire detection, alarm and suppression systems, fire cause and origin, communications and incident reports pre-incident survey and wildlife firefighting.

FFP1000  Introduction to Fire Science (AS)  
3 credits (3 lecture hours)  
Prerequisite: Completion of Firefighter PSAV 5043 and 12 credits toward the Fire Science AS2195. The purpose of this course is to provide an understanding of essential fire skills training. The firefighter program content includes, but is not limited to, orientation, the fire service, fire alarms and communication, vehicles, apparatus and equipment, fire behavior, portable extinguishers, fire streams, fundamentals of extinguishment, ladders, hoses, tools and equipment, forcible entry, salvage, overhaul, ventilation, rescue, protective breathing equipment, first responder, emergency medical techniques, water supplies, principles of in-service inspections, safety, controlled burning, and employability skills.

FFP1301  Fire Hydraulics (AS)  
3 credits (3 lecture hours)  
An overview of fire characteristics, properties of water, apparatus and appliances. Emphasis on developing proper fire streams using hydraulic calculations (theoretical and practical). Also covers drafting of water, velocity and discharge, friction loss, engine and nozzle pressure, pressure losses, municipal water supplies, standpipes and sprinklers, flow and pump testing and applications in fire science.

FFP1302  Fire Apparatus and Equipment (AS)  
3 credits (3 lecture hours)  
Prerequisite: FFP1301  
The course provides the laws, rules and driving techniques for emergency vehicles, as well as a review of fire service hydraulics. Fireground evolutions and a driving course make up the practical part of the course. The evolution portion of the course includes the use of pre-connected lines, tandem pumping, drafting, relays and master streams. The student should have a basic understanding of fire stream hydraulics prior to entering this course.
FFP1505  Fire Prevention (AS)  
3 credits (3 lecture hours)  
This course provides a study of fire inspection practices, including such items as purpose, definition, liability, authority, responsibility, organizational structure, fire courses, fire behavior, flame spread, inspection technique, methods of conducting inspections, occupancy types, fire load, and Fire Prevention Bureau certification.

FFP1540  Private Fire Protection Systems (AS)  
3 credits (3 lecture hours)  
This course provides a study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its need, construction and preventive maintenance and individual use.

FFP1820  Basic Emergency Planning Concepts (AS)  
3 credits (3 lecture hours)  
This course introduces students to basic emergency planning concepts for federal, state, local governments and businesses. The course also demonstrates the importance of all hazard risk assessments and exercising plans for refinement.

FFP1822  Introduction to Emergency Management and Homeland Security (AS)  
3 credits (3 lecture hours)  
This course discusses the evolution of emergency management. It provides an insight of emergency management systems including: function; phases of emergency management; relationships between local, state, federal agencies; career opportunities; emergency manager responsibilities. The course also examines modern approaches to disaster management based on theory, legal requirements and community expectations.

FFP1824  Basic Incident Management System I-200 (AS)  
1 credits (1 lecture hours)  
In this course, the student must demonstrate knowledge of the principles and features of an incident command system, how an incident command system is organized, incident facilities and their purposes (such as but not limited to command post, staging area, bases, camps, and heliports-helispots), incident resources such as strike teams, task forces, and single resources, and common responsibilities, such as communications and forms, in incident management.

FFP1825  Intermediate Incident Management System I-300 (AS)  
1 credits (1 lecture hours)  
Prerequisite: FFP1824  
In this course, the student must be able to list and describe the duties of various positions within the incident command system, construct an incident management organization for a given incident or event, including appropriate procedures for establishing command, transferring command, and terminating an incident, demonstrate knowledge of efficient incident resource management including logistics, finance, administration, and record-keeping, demonstrate a familiarity with air operations, and demonstrate knowledge of incident planning processes.

FFP1830  Hazards Analysis and Impacts (AS)  
3 credits (3 lecture hours)  
This course provides an overview for all hazards and disaster dynamics. Impact on population, infrastructure and economy will also be examined. The course includes the disaster management cycle and hazard monitoring systems.

FFP1832  Emergency Response to Terrorism (AS)  
1 credits (1 lecture hours)  
This course provides a 2-day training to prepare first-responder personnel to take the appropriate course of action at the scene of a potential terrorist incident. The course will provide students with a general understanding and recognition of terrorism, defensive considerations (biological, nuclear, incendiary, chemical, and explosive), as well as command and control issues associated with criminal incidents.

FFP1841  Business Contingency Planning (AS)  
3 credits (3 lecture hours)  
This course focuses on business contingency plans and survivability of disaster impacts. Course work will spotlight the importance of local business recovery and its impact on community recovery. Students will examine methods used by business to continue service to its clients and will develop a contingency plan for a small business.

FFP1850  Public Relations and Media Interactions in Emergency Management (AS)  
3 credits (3 lecture hours)  
Public relations is an important and rapidly growing profession. Society today is increasingly becoming more global and complex, and in this environment, business, government, non-profit and other organizations must have people who can communicate the needs of the organization to its various constituents. Those with public relations and communications expertise are well positioned to excel in this role. This course is designed to give students an overview of the public relations field and its vital role in organizations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture/Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FFP1882</td>
<td>Emergency Operations Center (EOC) Operations and Design (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
</tr>
<tr>
<td></td>
<td>This course discusses the operational philosophies and the importance of an emergency operations center. The course will discuss EOC staffing, activation levels, logistics, and will allow students to participate in designing the perfect EOC.</td>
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<tr>
<td>FFP2111</td>
<td>Fire Chemistry (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<td></td>
<td>This course provides the knowledge and skills pertaining to chemistry that will be useful to the Hazardous Materials Technician. The course features forms of matter, energy, common substances, chemical formulas/structure, bonding of atoms, molecules, isotopes, chemical reactions, and physical effects of chemical exposure to victims. Particular emphasis is placed on how this knowledge can be effectively used at a Hazardous Materials incident.</td>
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<tr>
<td>FFP2120</td>
<td>Building Construction Fire Protection (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<tr>
<td></td>
<td>This course provides the fundamentals of building construction and design, fire protection features and special considerations for fire inspection and suppression personnel.</td>
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<tr>
<td>FFP2206</td>
<td>Principles of Fire and Emergency Services Safety and Survival (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<tr>
<td></td>
<td>This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.</td>
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<tr>
<td>FFP2401</td>
<td>Hazardous Materials for Emergency Operations (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<td>This course provides basic hazardous materials identification processes, incident control techniques, personnel safety, environmental considerations and basic principles of chemistry.</td>
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<tr>
<td>FFP2402</td>
<td>Hazardous Materials for Emergency Operations 2 (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<td>Prerequisites: FFP2111, FFP2401 and must be a firefighter with documentation</td>
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<td>This course provides the second half of the two-part program in bringing a hazardous materials incident safely to conclusion. It concentrates on integrating knowledge about hazardous materials chemistry, storage, transportation, and potential release scenarios with information about local hazardous materials incident plans and response systems. The course is for personnel with hazardous materials response and mitigation functions.</td>
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<tr>
<td>FFP2423C</td>
<td>Hazardous Materials 3 (AS)</td>
<td>2</td>
<td>(1 lecture, 2 lab)</td>
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<td>Prerequisites: FFP2401, FFP2402, FFP2111</td>
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<td>This course provides the final component of the four part Hazardous Materials Technician program. It focuses on bringing a hazardous materials incident safely to conclusion with concentration on integrating knowledge about hazardous materials chemistry, storage, transportation, and potential release scenarios. Students will be taught the use of personal protective equipment, tools, detection devises, decontamination procedures and the use of specialized equipment that will allow them to successfully mitigate a hazardous materials emergency. The course is for personnel who will face hazardous materials response and mitigation functions.</td>
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<tr>
<td>FFP2510</td>
<td>Related Fire Codes and Standards (AS)</td>
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<td>(3 lecture)</td>
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<td>Course familiarizes inspector students with the Life Safety Code, its purpose, scope and application to the basic classifications of occupancy.</td>
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<tr>
<td>FFP2521</td>
<td>Blueprint Reading and Plan Examination (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<td>An introductory course to architectural working drawings and their reading and interpretation.</td>
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<tr>
<td>FFP2541</td>
<td>Private Fire Protection Systems 2 (AS)</td>
<td>3</td>
<td>(3 lecture)</td>
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<td></td>
<td>Prerequisite: FFP1540 and completion of Fire Inspector 1 PSAV certificate</td>
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<td>This course provides different components of fire protection by surveying pre-engineered and portable systems, extinguishing agents, inspection procedures for code compliance and enforcement, and alarm systems.</td>
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<tr>
<td>FFP2610</td>
<td>Fire Investigation: Origin And Cause (AS)</td>
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<td>(3 lecture)</td>
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<td>This course is designed to enhance the fire investigators ability to detect and determinate the origin and cause of a fire. Specific topics include fire behavior review, investigator ethics, construction, ignition sources, reading fire patterns and scene reconstruction. Special topics on electrical fire investigation, woodland fires, vehicle fires, mobile home fires, RV and boat and ship fires. Additional topics include special emphasis on fire scene documentation and extinguishing/alert systems.</td>
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</table>
FFP2612  Fire Behavior and Combustion (AS)  
3 credits (3 lecture hours)  
This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FFP2702  Principles of Emergency Services (AS)  
3 credits (3 lecture hours)  
This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

FFP2706  Public Information Officer (AS)  
3 credits (3 lecture hours)  
This course prepares the student to serve effectively as a organizational spokesperson, according to current practices in the profession of public relations and numerous examples from the fire service. Particular emphasis will be placed on case studies in crisis communications and the role of the Public Information Officer's role in the Incident Command System.

FFP2720  Company Officer and Leadership (AS)  
3 credits (3 lecture hours)  
The course provides basic aspects of leadership specifically those areas that deal with leadership style, communications, group dynamics, individual behavior, motivation and the various types of management currently used in the fire service community.

FFP2740  Fire Service Course Delivery (AS)  
3 credits (3 lecture hours)  
This course provides an overview of effective methods and techniques used in the teaching process and an opportunity to gain experience through various practical applications. Upon successful completion the student will have satisfied the academic requirements for certification at the Instructor I level.

FFP2741  Fire Service Course Design (AS)  
3 credits (3 lecture hours)  
Prerequisite: FFP2740  
This course provides the principles of effective curriculum design. It stresses the principles of adult learning and student-centered learning. Topics include designing courses and units that address learning, performance, and behavioral objectives.

FFP2770  Legal And Ethical Issues for the Fire Service (AS)  
3 credits (3 lecture hours)  
This course deals with the entire spectrum of issues facing today's fire service leaders. Topics include: labor relations, human rights and diversity, conflicts of interest and frameworks for ethical decision-making are used.

FFP2780  Fire Service Administration (AS)  
3 credits (3 lecture hours)  
This course provides the principles of management theory and its application in the fire service. The course is intended for officers whose area of responsibility encompasses long and short range planning, budgeting and administration.

FFP2800  Public Education and Personnel Development in Emergency Management (AS)  
3 credits (3 lecture hours)  
This course is designed to teach students organizational behavior concepts and present techniques for increasing personal and organizational effectiveness. Concepts and techniques will be presented to diagnose organizational problems by reviewing case studies and conducting research. Solutions will be developed for increasing productivity and organizational effectiveness in the Emergency Management arena.

FFP2810  Firefighting Strategy and Tactics 1 (AS)  
3 credits (3 lecture hours)  
This course provides basic factors involved in coping with a fire emergency and determining the best use of available resources in protecting lives and property from fire, heat and smoke. The course emphasizes the changing nature of an emergency situation and the ways in which the fire officer can evaluate the effectiveness of their proposed plan of action.

FFP2811  Firefighting Strategy and Tactics 2 (AS)  
3 credits (3 lecture hours)  
Prerequisite: FFP2810  
Curriculum covers multiple company operations, logistics, strategy, use of mutual aid forces and conflagration control. The course is intended for officers who may be in command of fires and other emergencies involving close coordination of large amounts of manpower and equipment. Typical tactical situations and case histories are given. The development of critical thinking skills is stressed.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
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<tbody>
<tr>
<td>FFP2840</td>
<td>Emergency Response and Recovery Operations (AS)</td>
<td>3</td>
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<td>This course takes a theoretical examination and practical application of</td>
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<td>post event management activities. Discussions and course work will</td>
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<td>include public health, sheltering, evacuation, human behavior, damage</td>
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<td>assessment, debris removal, individual and public assistance and</td>
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<td>media relations. Students will play various EOC roles which will</td>
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<td>develop decision making skills.</td>
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<td>FFP2842</td>
<td>Defending Communities, Bridging Disaster Preparedness, Recovery, Mitigation</td>
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<td></td>
<td>(AS)</td>
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<td>This course takes a theoretical examination and practical application of</td>
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<td>pre-disaster management and planning. The integration of mitigation,</td>
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<td>preparedness, and recovery activities is critical to protecting</td>
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<td>communities from major impacts. Students will discuss strategies for</td>
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<td>effective planning that gains political and public support.</td>
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<td>Professional networking is heavily encouraged.</td>
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<td>FFP2880</td>
<td>Emergency Management Public Policy, Relations and Education (AS)</td>
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<td>This course will provide knowledge of establishing and executing public</td>
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<td>policy in emergency management. It will also examine how disasters</td>
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<td>have shaped political processes at all levels of government, nationally</td>
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<td>and internationally. The course also examines a variety of public</td>
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<td>education methodologies used to educate and execute public policy.</td>
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<tr>
<td>FIL1456C</td>
<td>Production Design (AS)</td>
<td>3</td>
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<td>This course provides hands on experience with the opportunity to execute</td>
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<td></td>
<td>skills learned in production technique classes in an actual working</td>
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<td>production environment. Students function in above and below the line</td>
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<td></td>
<td>capacities. Departmental interaction and cooperation is stressed.</td>
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<td>FIL1461C</td>
<td>Cinematography (AS)</td>
<td>3</td>
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<td></td>
<td>This course provides the techniques and methodologies associated with</td>
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<td></td>
<td>video and film camera work and lighting. Single and multi-camera</td>
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<td>approaches well as field and studio applications will be considered.</td>
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<tr>
<td>FIL1518C</td>
<td>Lighting and Grip (AS)</td>
<td>3</td>
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<td>This course provides the techniques and methodologies associated with</td>
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<td>video and film camera work and lighting. Single and multi-camera</td>
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<td>approaches well as field and studio applications will be considered.</td>
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<td>FIL1547C</td>
<td>Mixing and Mastering for Recording Arts 1 (AS)</td>
<td>3</td>
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<td></td>
<td>This course introduces students to the techniques of audio post-production</td>
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<td>editing. Students become familiar with ProTools platforms. Students will</td>
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<td>complete assignments in conjunction with students in other concurrent</td>
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<td>program courses.</td>
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<tr>
<td>FIL1680C</td>
<td>Film Producing and Production Management (AS)</td>
<td>3</td>
<td>2</td>
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<td></td>
<td>The structure and organization of the media and entertainment industries</td>
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<td>including the major movie studios, mini-majors, independents, producing</td>
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<td>and marketing motion pictures, TV shows and video. Techniques in office</td>
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<td>management, personnel management, and paperwork management will be</td>
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<td>covered. An emphasis will be placed on the roles and responsibilities of</td>
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<td>the producer, unit production manager and 1st assistant director as well</td>
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<td>as their departments. Techniques in managing a budget and schedule</td>
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<td>through the use of computer software applications will also be covered.</td>
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<td>Students will complete assignments in conjunction with students in other</td>
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<td>concurrent program courses.</td>
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<td>FIL2000</td>
<td>Film Appreciation (AA)</td>
<td>3</td>
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<td>Prerequisite: Appropriate English and reading placement test scores or</td>
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<td>exemption from placement testing. Film as 20th century communication,</td>
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<td>emphasizing formal elements, will be studied through analysis of feature-</td>
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<td>length films of different nations, styles, themes, and genres. (*)</td>
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<td>FIL2002</td>
<td>Introduction to Film Studies (AA)</td>
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<td>Prerequisite: FIL2000 (with a grade of C or higher)</td>
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<td>This course will serve as an introduction to the techniques of academic</td>
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<td>film analysis and criticism. A survey of key contributors to film theory</td>
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<td>and film criticism will provide an in-depth examination of film as an art</td>
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<td>form. Discussion will involve artistic influences and movements; their</td>
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<td>effect on the medium will be another key component of study.</td>
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</table>
FIL2031  Film History to the 1940s (AA)
3 credits (3 lecture hours)
This course introduces the student to the evolution of the motion picture from the 1890s - 1940s through lectures and screening of selected films. The focus is on specific movements, individuals and developments in cinema during the early period of the history of film.

FIL2032  Film History Since the 1940s (AA)
3 credits (3 lecture hours)
This course introduces the student to the evolution of the motion picture from the 1940s until the present through lectures and screening of selected films. The focus is on specific movements, individuals and developments in cinema during the later period of the history of film.

FIL2044  History of Animation (AA)
3 credits (3 lecture hours)
This course introduces the student to the evolution of the motion picture animation from the 20th century through the modern day through lectures and screening of selected films. The focus is on specific movements, individuals and developments in motion picture animation throughout the history of film.

FIL2100  Screenwriting (AS)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
This a writing and oral workshop covering script writing as applied to film, television and video production. The course provides an opportunity for students to present their scripts to others.

FIL2130  Advanced Screenwriting (AS)
3 credits (3 lecture hours)
Prerequisite: FIL2100 (with a grade of C or higher)
This course provides writing and oral workshop covering script writing as applied to film, television and video production. The course provides an opportunity for students to present their scripts to others.

FIL2420C  Motion Picture Production 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: FIL1461C, FIL1518C, FIL2000, FIL2537C, FIL2571C (with a grade of C or higher)
This course is designed to provide students with a basic understanding of the practices, techniques, personnel and organization of film and television production. Application of methods learned through semester long production cycle. Production work is completed primarily outside of regular class meeting times. Departmental interaction and cooperation is required.

FIL2425CR  Feature Film Production Projects (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: FIL2432C (with a grade of C or higher)
This course provides the student with an opportunity to pursue working on a feature film project, either developed and crewed internally by students or for an outside agency/client, with faculty supervision. Course will be repeated up to four times. Evaluation in this course will be based on written reports, production assignments and adherence to policy and procedures throughout the semester. Course will build upon training and theory conducted in traditional courses allowing students to practice and hone their skills in a professional work environment.

FIL2432C  Motion Picture Production 2 (AS)
3 credits (2 lecture hours, 2 lab hours)
Corequisites: FIL2538C, FIL2561C (with a grade of C or higher)
This course is designed to provide students with the opportunity to execute skills learned in production technique classes in an actual working production environment. Students study the filmmaking process from concept to completion with special emphasis placed on the relationship between various job categories by rotating through the various on-set positions to complete larger scale short film projects. Students will complete assignments in conjunction with students in other concurrent program courses. Students function in above and below the line capacities. Students will complete assignments in conjunction with students in other concurrent program courses.

FIL2470C  Advanced Cinematography (AS)
4 credits (3 lecture hours, 2 lab hours)
Prerequisite: FIL1461C (with a grade of C or higher)
This course allows students to access techniques and methodologies associated with professional film camera work, advanced operational techniques, camera support equipment and the role of the cinematographer. Advanced emphasis on the various roles and responsibilities of a traditional feature film camera team. Students will complete assignments in conjunction with students in other concurrent program courses.
FIL2480C  Directing for Film (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: FIL1461C, FIL1518C, FIL2000, FIL2537C, FIL2571C (with a grade of C or higher)  
This is a practical workshop in the director's craft. Techniques of script analysis, casting rehearsals, staging and blocking for camera are studied through exercises and discussions. Emphasis is placed on the working relationship between director and actor and director and crew. Students will coordinate production projects with students in other concurrent program courses.

FIL2537C  Introduction to Sound (AS)  
3 credits (2 lecture hours, 2 lab hours)  
This course provides the theory and practice of production and post-production film sound preparing students for operational aptitude with special emphasis on techniques of achieving quality sound for every application.

FIL2538C  Advanced Sound for Film (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: FIL2537C (with a grade of C or higher)  
This course provides the theory and practice of production and post-production film sound preparing students for operational aptitude with special emphasis on techniques of achieving quality sound for every application.

FIL2543C  Film Sound Design (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: FIL1547C, FIL2538C (with a grade of C or higher)  
Focuses on theory and practice of production and post-production film sound. Special emphasis on techniques of sound in filmmaking process. Students will complete assignments in conjunction with students in other concurrent program courses.

FIL2548C  Mixing and Mastering for Recording Arts 2 (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: FIL1547C (with a grade of C or higher)  
This course introduces students to advanced techniques of audio post-production editing. Students become familiar with ProTools platforms. Students will complete assignments in conjunction with students in other concurrent program courses.

FIL2561C  Advanced Editing (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: FIL2571C (with a grade of C or higher)  
This course introduces students to the techniques of video and film post-production editing. Students become familiar with linear and non-linear formats.

FIL2571C  Introduction to Editing (AS)  
3 credits (2 lecture hours, 2 lab hours)  
This course introduces students to the techniques of video and film post-production editing. Students become familiar with Avid and Final Cut Pro platforms. Students will complete assignments in conjunction with students in other concurrent program courses.

FIL2589C  Motion Picture Production 3 (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: FIL2432C (with a grade of C or higher)  
This capstone course is designed to enhance skills learned in production technique classes in a working production environment. Students study the filmmaking process from concept to completion. Emphasis is placed on the relationship between job categories by rotating through the various leadership positions to complete large scale short film projects. Students will work in conjunction with other concurrent program courses.

FIL2910  Independent Project in Motion Picture and Television Production (AS)  
3 credits (6 lab hours)  
This course provides the student with an opportunity to independently pursue a film/TV project, usually for an outside agency/client, with faculty supervision. Students will meet with a faculty member who will monitor the student's progress. Evaluation in this course will be based on written reports and production projects, which are submitted throughout the semester.

FIL2941  Motion Picture Production Internship 1 (AS)  
1 credits (8 lab hours)  
Prerequisite: FIL2420C (with a grade of C or higher)  
This course enables students to gain basic experience in a professional industry setting. Under the supervision of teaching faculty and an approved site sponsor, students assume responsibility for completing tasks that are directly related to their chosen career path.
FIN3400  
**Principles of Financial Management (BAS)**  
3 credits (3 lecture hours)  
Prerequisites: ACG2022 (with a grade of C or higher), Admission to the BAS Supervision and Management program or consent of the department  
This is an introductory course in managerial finance in which the student should attain a clear, basic understanding of the fundamentals of finance and their association to the decision-making framework faced by a financial manager who is charged with maximizing shareholders' wealth. Topics include: financial statement analysis, financial planning and forecasting, time value of money, risk and rates of return, asset valuation, capital budgeting, capital structure, dividend policy and working capital management.

FOS1201  
**Food Service Sanitation (AS)**  
2 credits (2 lecture hours)  
Basic sanitation principles and applications covering management of a sanitary environment, regulations, standards, and accident prevention are presented.

FRE1120  
**Elementary French 1 (AA)**  
4 credits (4 lecture hours)  
This course helps students develop proficiency in the four language skills. Students who have completed French 1120 will have mastered the basic vocabulary and structures of the French language and will have achieved an appreciation of the breadth of the French-speaking world. Honors credit is available.

FRE1121  
**Elementary French 2 (AA)**  
4 credits (4 lecture hours)  
Prerequisite: FRE1120 (with a grade of C or higher) or equivalent  
This course is a continuation of FRE1120 and helps students continue to develop proficiency in the four language skills. Students who have completed FRE1120 will have mastered the basic vocabulary and structures of the French language and will have achieved an appreciation of the breadth of the French-speaking world. Honors credit is available.

FSS1220  
**Professional Cooking (AS)**  
2 credits (2 lecture hours)  
Prerequisite or Corequisite: FOS1201 (with a grade of C or higher); Corequisite: FSS1220L (with a grade of C or higher)  
Basic terms, tools, and techniques are to be taught with the professional kitchen in mind.

FSS1220L  
**Professional Cooking Lab (AS)**  
1 credits (2 lab hours)  
Corequisite: FSS1220 (with a grade of C or higher)  
Basic terms, tools, and techniques are to be taught with the professional kitchen in mind.

FSS1221C  
**Quantity Food Production 1 (AS)**  
4 credits (2 lecture hours, 4 lab hours)  
Prerequisite: FSS1210C, or FSS1220 and FSS1220L (with a grade of C or higher)  
Practical experience in handling tools, materials, and equipment includes food preparation and menu planning for large numbers of people with emphasis on institutional cooking, recipe conversions, production sheets, food costing and recipe-file development.

FSS2105  
**Purchasing for the Hospitality Industry (AS)**  
3 credits (3 lecture hours)  
Emphasis on selection and specification requirements for purchasing food including fruit, vegetables, meats and grocery items; food-service standards and specifications, food items and paper and alcoholic beverages will be discussed.

FSS2242C  
**International Foods (AS)**  
3 credits (1 lecture hour, 4 lab hours)  
Prerequisites: FOS1201, FSS1220, FSS1220L, FSS1221C (with a grade of C or higher)  
This course will explore the aspects of culture and food in the international arena. Students will develop practical techniques used in creating and presenting international cuisine. There will be a focus on traditional cuisine to general geographic areas throughout the course. Focus will be placed on understanding the similarities and differences in the international cuisines.

FSS2500  
**Food and Beverage Cost Control (AS)**  
3 credits (3 lecture hours)  
Cost control systems of hotels and restaurants in purchasing, allocation, and use of foods and beverages for profitable operations.

GCO2230  
**Pumping and Irrigation Systems (AS)**  
3 credits (3 lecture hours)  
This course examines irrigation principles and equipment used in South Florida horticulture. Water requirements of plants, design and layout, pumps and valves, installation and troubleshooting, and job estimating are included. This course is applicable to residential and commercial installations.
GEA1000  Principles of Geography and Conservation (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate English and reading placement scores or course completion required to enroll in this General Education course.
This course provides an introduction to world geography through a study of selected regions, with an emphasis on environmental and conservation problems. It examines the contemporary world through a geographical analysis of the historical, demographic, physical, economic, social, political, religious, cultural and ethnic characteristics of major countries and world regions. (*)

GEB1011  Introduction to Business (AA)
3 credits (3 lecture hours)
Objectives include: (1) give beginning business student an opportunity to learn about business in its entirety before studying each of its parts intensively, (2) develop a technical vocabulary for use in later courses and in reading business periodicals, (3) acquire a better understanding of the workings of the free enterprise system and (4) identify career opportunities.

GEB1933  Applied Technical Skills - Certified Bookkeeper (AIOPB001) (AS)
3 credits (3 lecture hours)
Prerequisites: Application to Palm Beach State College indicating 2050 program code, current Certified Bookkeeper (AIOPB001) certification and submission of completed prior learning form to Registrar.
This course acknowledges articulation credits for a current Certified Bookkeeper (AIOPB001) certification toward the Accounting Technology AS degree. This course is for internal college record keeping only.

GEB2214  Business Communications (AS)
3 credits (3 lecture hours)
This course develops effective oral and written communications skills in a business environment. Emphasis will be on communicating professionally in written correspondence, interviewing, public relations, business presentations, and interpersonal/team work. Opportunities to recognize complex issues, organize ideas and thoughts in a consistently logical format, and communicate these ideas in a succinct and concise manner will be included.

GEB2930  Business Capstone (AS)
2 credits (2 lecture hours)
Prerequisite: MAN2021 or ENT2112 (with a grade of C or higher)
This course is designed to integrate the knowledge and skills learned in the program. Students will demonstrate their understanding of the core program learning outcomes through the completion of a Capstone Project. Students must be in their last semester when enrolling.

GEB3213  Business Writing (BAS)
3 credits (3 lecture hours)
Prerequisites: Admission to the BAS Supervision and Management program or consent of the department; ENC1102 or ENC1122 or ENC1141 (with a grade of C or higher)
This course is designed to teach oral and written communication skills as applied to business settings. Topics include: listening skills, verbal and nonverbal messages, presentation skills, proper punctuation, grammar and spelling, and using reference materials.

GEB3375  Foundations of International Business (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
An overview of the principal aspects of conducting international business. Domestic and international business characteristics are compared, and international political and legal environments are studied. Topics include: international trade theory, foreign exchange, export and import strategies, negotiations and diplomacy, and human resource management in the global marketplace.

GEB3453  Business Ethics and Stakeholder Management (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
Managers nowadays are confronted with increasingly complex environments and face challenges trying to balance economic, legal and ethical responsibilities vis-a-vis the stakeholder groups with which they interact. This course investigates the spectrum of business ethics and social responsibility issues that managers face in today's organization. The course will be grounded in contemporary events and address these challenges from both an individual and a managerial perspective.

GEB4113  Entrepreneurship (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
In this course students will examine the concepts and issues of creating new ventures and the challenges of managing their growth through assigned readings, case analyses of business ventures, and entrepreneurs as guest speakers. Student teams will research a business opportunity and develop and present a business plan for the new venture.
GEB4891  
Strategic Management and Decision Making (BAS)  
3 credits (3 lecture hours)  
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)  
This course emphasizes strategic planning and strategy implementation in an organization. Students learn how to perform internal and external audits, identify problems, formulate goals and objectives, develop action plans, and evaluate the effectiveness of the outcome of the plan. Case studies are used to promote decision making abilities.

GEB4935  
Capstone Experience: General Management (BAS)  
3 credits (3 lecture hours)  
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher); This course should be taken during the last semester of the program, and requires Bachelor's department approval.  
This course focuses on the integration of knowledge, skills, and abilities learned in the program through a capstone project.

GEB4940C  
Supervision and Management Internship (BAS)  
3 credits (1 lecture hour, 14 lab hours)  
Prerequisite: 15 credit hours in upper-level B.A.S. courses (with a grade of C or higher); 3.0 cumulative GPA and instructor or department permission  
The internship experience and concurrent seminar provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in General Supervision and Management. Students will apply business skills and competency-based applied learning at an internship site that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills and occupation-specific skills, and knowledge which are specific to their career field.

GER1120  
Elementary German 1 (AA)  
4 credits (4 lecture hours)  
Focusing on conversational patterns, this course emphasizes modern German as a spoken, written and read language.  
Grammatical discussions are kept minimal as a communicative approach dominates. In-class discussions, cultural and literary readings and optional e-mail and German chat brings alive the Germanic culture. Honors credit available.

GER1121  
Elementary German 2 (AA)  
4 credits (4 lecture hours)  
Prerequisite: GER1120 (with a grade of C or higher) or equivalent  
This is a continuation of GER1120. Speaking, listening, reading and writing German continue as the course is taught in German by mid-semester. Students will converse, read, and write on a wide range of culturally relevant topics. Honors credit available.

GEY2000  
Gerontology (AA)  
3 credits (3 lecture hours)  
A practical human services approach to gerontology for the beginning professional. This study of aging includes psychological, sociological and biological factors related to the process of growing old. Special emphasis is placed on demography, income, employment, physical health, mental health, housing, transportation, and criminal victimization. Also included are the Older Americans Act, the Area Councils on Aging and Multi-purpose Human Services Resources (local, state and national). The course is designed to meet the needs of those already working in the field who are seeking increased knowledge and skills, as well as more positive attitudes. It is also for the beginner in the field of human services.

GLY1000  
Descriptive Geology (AA)  
3 credits (3 lecture hours)  
The materials, structure, and surface of Earth and processes that produced or shaped them are covered. Laboratory exercises and demonstrations are included. (*)

GLY2030C  
Environmental Geology (AA)  
3 credits (2 lecture hours, 2 lab hours)  
Principles of physical and historical geology as applied to the materials, structures, and surface of the earth. Special emphasis on Florida geology with the use of case scenarios and laboratory activities to illustrate environmental concerns including depletion of earth's resources, water supply problems, and pollution.

GRA1190C  
Graphic Design 1 (AA)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: ART1201C, ART1300C  
This course provides an introduction to graphic design using the visual elements and principles of design, including visual communication utilization of symbols, knowledge of tools and layout procedures is provided.
GRA1530C  Typography (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: ART1201C
This course covers the historical development of printed type, type classification and recognition, typographic elements and special skills as they relate to current software. Students will explore type as an expressive design element and will practice vital typographic design theory in order to solve design problems and communicate their concepts effectively.

GRA2100C  Introduction to Macintosh Graphics (AS)
3 credits (2 lecture hours, 2 lab hours)
Pre/Corequisites: ART1201C, ART1300C (with a grade of C or higher)
An introductory course in the use of the Macintosh computer as a graphic design tool. The student will learn how to navigate on a Macintosh and take advantage of its operating software features. Care and maintenance will also be covered, as well as the basics of mainstream graphics applications.

GRA2121C  Publication Design 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: GRA2100C (with a grade of C or higher) or department chairperson's permission required.
This course is an introduction to design and information organization in various single and multi-page layout formats using industry leading software. The student will learn how to plan a project, choose and edit images and text, use essential keyboard shortcuts and provide correctly composed files.

GRA2122C  Publication Design 2 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: GRA2121C (with a grade of C or higher) or permission of department chair
This course is a continuation of GRA2121C. Students will learn how to combine text, images, typography, editing, and printing in one application and prepare documents for publication whether digital or print.

GRA2131C  Multimedia Graphics (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, ART1300C
The student will be introduced to the fundamentals of creating and editing graphic images used in print, web, animation, video and in presentation. Students will be introduced to the fundamentals of creating and editing graphic images.

GRA2132C  Multimedia Design (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, GRA2131C (with a grade of C or higher)
Students will learn how to design and create productions for kiosk, gaming, portfolio, projection, interactive locational mapping and interactive 2-D web sites. The class will cover aspects of production development, as well as the technical details of creating, organizing, and formatting content for production. Students will learn different methods for displaying a presentation including presentation projectors, Shockwave Player and web site access.

GRA2136C  Multimedia Video Editing (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, GRA2131C (with a grade of C or higher)
Students will learn how to design and create video productions and computer-generate web presentations. This class will give students an understanding of the non-linear production process of gathering managing and assembling video, audio and still footage. Final Cut Production will be used for video editing.

GRA2144C  Graphic Web Design (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: ART1201C, GRA2131C
The student will start with web graphics and web layout and learn to make backgrounds, buttons, and banners to use on their pages. A special emphasis will be placed on interactivity design and page layout, the proper use of typography and images for delivery on the Internet. The student will be introduced to the most recent applications for web page production and editing and a consideration of various platforms for designing web pages. More complex problems of web architecture and planning, FTP and web site maintenance will be used to develop a professional web site. By the end of the course, the student will have completed an entire web site which they can put on the World Wide Web.

GRA2151C  Illustrator 1 (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: GRA2100C (with a grade of C or higher) or permission of department chair
This course provides a comprehensive overview of illustration software as applied to the Macintosh computer. The course covers various methods of creating and editing objects and paths as well as integrating designs with images and text.
GRA2152C  Illustrator 2 (AS)  3 credits (2 lecture hours, 2 lab hours)  Prerequisite: GRA2151C (with a grade of C or higher) or permission of department chair  This course provides a comprehensive overview of illustration software as applied to the Macintosh computer. The course builds on the technical information learned in Macintosh Illustration I but offers more opportunity for creative expression. The student will design his/her own 2 and 3-D original projects.

GRA2156C  Photoshop 1 (AS)  3 credits (2 lecture hours, 2 lab hours)  Prerequisite: GRA2100C (with a grade of C or higher) or permission of department chair  This course provides students an opportunity to advance their design skills by using digital image editing software as applied to the Macintosh computer. The course covers the implementation of basic creative options such as image creation and manipulation, color correction, and retouching through the use of layers and various selection methods.

GRA2157C  Photoshop 2 (AS)  3 credits (2 lecture hours, 2 lab hours)  Prerequisite: GRA2156C (with a grade of C or higher)  This intermediate course will expand upon the information gained in GRA2156C Photoshop 1, covering the more advanced creative options offered in the digital image editing software. Emphasis will be placed on problem solving, advanced retouching, color correction, and various creative advertising techniques.

GRA2160C  Multimedia Animation (AS)  3 credits (2 lecture hours, 2 lab hours)  Prerequisites: ART1201C, GRA2131C  Students will learn how to generate frame-by-frame motion, path animations as well as create and import and edit video files. In addition they will learn how to optimize sound files for different uses.

GRA2171C  Portfolio Composition (AS)  3 credits (2 lecture hours, 2 lab hours)  Prerequisite: GRA2191C (with a grade of C or higher)  This course provides visualization and presentation of layout and design with emphasis on designing a company's advertising program. Speed and proficiency are goals, and the production becomes the basis for a personal portfolio.

GRA2191C  Graphic Design 2 (AA)  3 credits (2 lecture hours, 2 lab hours)  Prerequisite: GRA1190C, GRA2100C (with a grade of C or higher) or instructor permission required  The second in a series of courses to prepare the student for advanced studies in advertising design. This course covers production procedures from rough layout to finished art. The student will use various computer software programs to assist them in completing the design projects as assigned. The student should have experience in using the Macintosh computer before enrolling in the course.

GRA2722C  Dreamweaver (AS)  3 credits (2 lecture hours, 2 lab hours)  Prerequisites: ART1201C, GRA2131C  This course explores the components, terminology, features, and web pages utilizing Dreamweaver as the layout vehicle. Through hands-on lectures, demonstrations, and projects, the student will learn the essential techniques and functions of the program while understanding some of the more complex issues that web designers face when using this software.

GRA2940  Graphic Design Internship (AS)  3 credits (5 lab hours)  Prerequisite: All other Graphic Design courses required for Graphic Design Technology program. A 3.0 minimum GPA in major graphic design courses and approval of department chair.  Upon becoming employed by a graphic design firm, the intern works in a studio setting such as a print shop, advertising agency, advertising department, etc., of a company or in a commercial printing business and is involved in duties associated with the graphic arts profession for a period of not less than six weeks, not more than 12 weeks or 220-300 hours to secure credit for the internship.

HCP0120  Nursing Assistant (PSAV)  75 clock hours  This segment introduces the student to the overall concept of practical nursing, problem solving, responsibilities and role in the interrelationships of various disciplines of the health team and verbal, non-verbal and written communications. The content addresses people of various ages and cultures, establishes a foundation of nursing skills that extends the students understanding of his/her role in giving patient care in a variety of situations with patients of all ages and prepares the student to take the state nursing assistant certification exam.
HCP0121C Nurse Aide and Orderly (Articulated) (PSAV)
45 clock hours
Nursing concepts of caregiving, culture, communication, ethics and health care law are continued. A foundation of nursing skills and clinical experience expands the student's understanding of his/her role within the health care team while prompting and enhancing human flourishing. Curriculum prepares the student to take the state nursing assistant certification exam.

HCP0300 Home Health Aide (PSAV)
50 clock hours
This course introduces the student to the concept of the management of the patient in the home that includes physical comfort and safety, nutrition and legal and ethical responsibilities.

HCP0620 Patient Care Assistant (PSAV)
75 clock hours
This course introduces the student to required patient care skills related to the hospital setting for both pre-operative care and post-operative care.

HEV0001 Infant/Toddler Appropriate Practices (PSAV)
5 clock hours
This is the Department of Children and Families "Infant Toddler Appropriate Practices" course and is based on the National Association for the Education of Young Children's (NAEYC) standards. It is designed for the child care professionals responsible for the care of children birth through 36 months. It provides an overview of how developmentally appropriate practices applies to infant and toddlers; child development theories, stages, and developmental alerts; the concept of play and how to encourage infant and toddlers in learning through appropriate play activities; how to design effective environments; quality child/caregiver relationships; and positive guidance strategies. This 5-hour course provides caregivers with the tools they need to ensure that Florida's children are happy, healthy, and safe in their environment.

HEV0002 Preschool Appropriate Practices (PSAV)
5 clock hours
This is the Department of Children and Families Preschool Appropriate Practices course and is based on the National Association for the Education of Young Children's (NAEYC) standards. It is designed for child care professionals responsible for the care of children 3 to 5 years old. It provides an overview of how developmentally appropriate practices applies to young children; child development theories, milestones, and developmental alerts; the importance of play; techniques to design a quality learning environment; positive guidance strategies; and creating a caring community in the classroom. This 5-hour course provides caregivers with the tools they need to ensure that Florida's children are happy, healthy, and safe in their environment.

HEV0003 School Age Appropriate Practices (PSAV)
5 clock hours
This is the Department of Children and Families "School Age Practices" course and is based on the National Association for the Education of Young Children's (NAEYC) standards. It is designed for child care professionals responsible for the care of children 5 to 12 years old. It provides an overview of how developmentally appropriate practices applies to school age children; child development theories, developmental domains and delays; how children learn through play and how to create opportunities for children to learn; techniques to design effective learning environments; positive guidance strategies; and how to build a classroom community. This 5-hour course provides caregivers with the tools they need to ensure that Florida's children are happy, healthy, and safe in their environment.

HEV0004 Understanding Developmentally Appropriate Practice (PSAV)
5 clock hours
This is the Department of Children and Families "Understanding Developmentally Appropriate Practice" course and is based on the National Association for the Education of Young Children's (NAEYC) standards. It is designed for child care professionals responsible for the care of children from birth through school age. This 5-hour course provides caregivers with an overview of what Developmentally Appropriate Practice (DAP) is and why it is important to practitioners in the field. It includes key elements of quality care, child development theories, brain development, developmental domains, elements of quality learning centers, how to implement DAP in a professional manner, and characteristics of a quality caregiver. This course must be taken prior to the Department of Children and Families 5-hour PSP, ITP, or SAP.

HEV0114 Rules and Regulations for Center-Based (PSAV)
6 clock hours
This course will familiarize child care professionals working in a licensed child care facility with the Florida rules and regulations governing licensed facilities providing care to children birth - 5 years old. It will examine the various statutes governing physical environment, hiring practices, training, nutrition, health and safety, as well as, record keeping.
HEV0115  Introductory Child Care Worker Certification (PSAV)
24 clock hours
This course combines Introductory Child Care training with the 10-Hour Behavioral Observation and Screening component for a total of 24 hours of child care training. This course provides training on the rules and regulations for licensed child care facilities in Palm Beach County as well as behavioral observation and screening techniques.

HEV0118  Rules and Regulations for Family Child Care (PSAV)
6 clock hours
This course will familiarize child care professionals owning and operating a licensed family child care home with the Florida rules and regulations governing licensed family child care homes providing care to children. It will examine the various statutes governing physical environment, hiring practices, business and financial operations, training, nutrition, health and safety, as well as, record keeping.

HEV0123  10-Hour Special Needs Appropriate Practices (PSAV)
10 clock hours
Developmentally appropriate practices for children with special needs is the topic of this 10-hour component. The course covers the signs of a typical child's development, the ways to successfully include children with special needs into the preschool setting, and developmentally learning environments for children with special needs.

HEV0130  Early Childhood Professional Certificate (ECPC) Module 1 (PSAV)
40 clock hours
Prerequisites: 40-Hour Child Care Training Certification (includes 10-Hour Appropriate Practice for Preschool) and 5-Hour VPK Emergent Literacy.
The first module of the Early Childhood Professional Certificate (ECPC) introduces the student to the ECPC credentialing process. The student will receive formal instruction in these competencies: professionalism, health and safety, and the learning environment. During this module the student will begin preparing a professional resource file and portfolio which will be completed by Module 3. The student will also be required to demonstrate the competencies learned throughout the program during a 2-hour onsite observation which meets State and National ECPC credential requirements. This observation must be conducted in a Preschool classroom with children 3-5 years old.

HEV0131  Early Childhood Professional Certificate (ECPC) Module 2 (PSAV)
40 clock hours
Prerequisite: HEV0130 (with a grade of C or higher)
The second module of the CDA program focuses on the following competencies: physical and cognitive development, language development and communications skills and creative development. The student will continue preparing the professional resource file with observations of children in the candidate's own classroom. Students must successfully pass this module with a passing grade of A, B or C and complete all other course requirements to be eligible to continue in the CDA program.

HEV0132  Early Childhood Professional Certificate (ECPC) Module 3 (PSAV)
40 clock hours
Prerequisite: HEV0131 (with a grade of C or higher)
This third module in the Early Childhood Professional Certificate (ECPC) program covers the following competency areas: social and emotional development; relationships with families; program operation; and observing and recording children's behavior. The student will be required to demonstrate the competencies learned throughout the program during a 2-hour onsite observation which meets State and National ECPC credential requirements. This observation must be conducted in a Preschool classroom with children 3-5 years old.

HEV0194  School Age Professional Certificate Mod 1 (PSAV)
40 clock hours
This course provides an orientation to school age child care, including the philosophy, purpose and social/cultural context of after-school and other programs for school-age youth. An examination of program models, including staff roles, program planning, quality improvement, and interaction with children, families and community will be presented.

HEV0195  School Age Professional Certificate Mod 2 (PSAV)
40 clock hours
This course explores positive guidance techniques and behavior management strategies for school age child care providers. Child-centered approaches, self-management techniques and conflict resolution strategies will be presented to establish an environment of respect, cooperation and social competence.

HEV0803  Part 1 - School Age Program Certification (PSAV)
28 clock hours
This certification is state mandated for child care providers serving school age children ages 5 and up (through grade 5). This training includes topics covering local rules and regulations; identifying and reporting child abuse and neglect; health, safety and nutrition; and school age appropriate practices.
HEV0804  Part 2 - Foundations of Advancing Youth Development (AYD) Principles (PSAV)
12 clock hours
This certification fulfills the remaining 12 hours of training required by the state for afterschool providers serving school age children ages 5 and up (through grade 5). This training will introduce Afterschool providers to a specialized school age curriculum, Advancing Youth Development (AYD), which focuses on the stages of youth development; developmental outcomes; cultural assumptions and stereotypes; supports for youth development for children ages 5 and up.

HEV0807  Caring for Children Birth - 3 Years Module 1 (PSAV)
40 clock hours
The first module of the Caring for Children Birth - 3 Module 1 (FCCPC) introduces the student to the FCCPC credentialing process. The student will receive formal instruction in these competencies: safe, healthy, learning environment; establishing relationships with families; and professionalism. During this module the student will also begin compiling a professional resource file and portfolio which will be completed by the end of the program. The student will be required to demonstrate the competencies learned throughout the program during a 2-hour onsite observation.

HEV0808  Caring for Children Birth - 3 Years Module 2 (PSAV)
40 clock hours
The student will explore the FCCPC competency standards and the system of competency-based performance evaluation. The program is divided into three modules covering the thirteen functional areas in which a caregiver must demonstrate competence in order to meet the FCCPC competency standards. The program provides the 124 hours of formal instruction required for the FCCPC assessment, including at least ten hours in each subject area. The following will be addressed in Module 2: 1. Steps to advance children's physical and intellectual development 2. Positive ways to support children's social and emotional development 3. Maintaining a commitment to professionalism

HEV0809  Caring for Children Birth - 3 Years Module 3 (PSAV)
40 clock hours
The third module of Caring for Children Birth - 3 (FCCPC) covers the following competency areas: effective program operation; observing and recording children's behavior; and principles of child growth and development. During this module the student will also begin compiling a professional resource file and portfolio which will be completed by the end of the program. The student will be required to demonstrate the competencies learned throughout the program during a 2-hour onsite observation. This observation must be conducted in a classroom with children Birth - 3 years old.

HEV0999  ECPC/FCCPC Practical Experience (PSAV)
480 clock hours
This is an internal college course that will be noted on the transcript of those students who have successfully completed the Early Childhood Professional Certificate Program - Preschool (5364) or Caring for Children Birth to 3 Years Program - FCCPC (5390). This course is designed to document the completion of the practical experience required for the ECPC or FCCPC credential. Students are required to document 480 hours of direct work with children 5 years of age or younger.

HFT1000  Introduction to the Hospitality Business (AS)
3 credits (3 lecture hours)
Historical development of the hospitality business; compare present scope of the business at the national, state and county level; differentiate departmental and job responsibilities in hotels and restaurants. Covers food service management industry operations along with sanitation and safety practices in hospitality.

HFT1313  Hospitality Property Management (AS)
3 credits (3 lecture hours)
This course covers the principles of property management covering security, parking, general cleaning of facility, laundry, recreation, pools, spas, equipment and public space.

HFT1630  Management of Security in Hospitality Business (AS)
3 credits (3 lecture hours)
This course explains the issues surrounding the need for individualized security programs, examines a wide variety of security and safety equipment and procedures, discusses guest protection and internal security for asset protection and outlines OSHA regulations that apply to lodging properties.

HFT1850C  Dining Room Management (AS)
3 credits (2 lecture hours, 4 lab hours)
Prerequisite: FOS1201 (with a grade of C or higher)
This course blends theory and application. In the classroom, proper dining room procedures for director of service, dining room captain, waiter/waitress and dining room attendant. In the laboratory hospitality management training center, the student performs, on rotation, functions and responsibilities of each position including procedures for different types of service (plate service, family style, buffet service, platter service, cart service, banquet type and others); purchase and maintenance of chinaware, glassware, silverware and linen, wine and beverage service, sanitation and safety and in-service management.
HFT2220 Personnel Management Practices (AS)
3 credits (3 lecture hours)
Basic principles and analysis of managerial problems, including job analysis methods, selection, control and supervision of personnel including work plans and schedules, labor and cost control, legal requirements and safety controls.

HFT2240 Hotel-Motel Front Office and Procedures (AS)
3 credits (3 lecture hours)
This course provides a study of functions, procedures and organization of front office department in a medium and large hotel. The emphasis is on reservations and front-office psychology.

HFT2250 Sales Promotion and Advertising in Hotels and Food Service (AS)
3 credits (3 lecture hours)
The study of marketing principles associated with the promotion of lodging and food service businesses.

HFT2260 Hospitality Industry Law (AS)
3 credits (3 lecture hours)
A study of the laws applicable to the ownership and operation of places of public hospitality. The student is exposed to the basic laws that govern hotels, restaurants, and clubs. The case study approach is used to familiarize the student with the myriad legal problems to which operators are exposed on a daily frequency.

HIM1000C Introduction to Health Information Management (AS)
3 credits (2 lecture hours, 2 lab hours)
Corequisite: HSC2531 (with a grade of C or higher)
This course provides an overview of health information management careers and professional development. Emphasis will be on the role, purpose, and forms of medical records and related legal and ethical issues; basic employability skills; health delivery systems; and a foundation knowledge of health information functions.

HIM1012C Health Information Law, Ethics, and Compliance (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: HIM1000C (with a grade of C or higher)
This course includes the law, ethics, and compliance issues associated with health information management. The course will demonstrate the accreditation, licensing, and certification process, apply legal concepts to current health information management issues, and address regulatory monitoring and regulations for compliance. Ethical issues that arise in the area of health information management will be evaluated and application of ethical decision-making tools utilized.

HIM1210C Health Information System (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: CGS1100 or HIM1000C or HIM1610C (with a grade of C or higher)
This course will give the student the knowledge and skills relating to the purpose, use, maintenance, and regulations associated with various basic and specialized health information systems. These systems include clinical decision support systems, electronic health records, voice recognition systems, and other electronic systems used by the health care industry.

HIM1282C Fundamentals of Medical Coding (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisites: BSC2086, BSC2086L, HSC2531 (with a grade of C or higher)
This course will introduce the student to the scope of practice of the medical information coder/biller. Emphasis will be on the structure and origin of the ICD-9-CM and CPT coding systems along with their basic rules and regulations.

HIM1433C Pathophysiology for Health Information (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisites: BSC2086, BSC2086L (with a grade of C or higher)
This course emphasizes the fundamentals of human disease. It introduces important concepts including surgical terminology, inflammation and allergy, neoplasia, heredity disease, dietary factors influencing disease, and infectious disease. This will also include the study of the major diseases associated with each body system with regard to diagnosis and associated treatment along with clinical indicators and required documentation.

HIM1442C Pharmacology for Health Information (AS)
2 credits (1 lecture hour, 2 lab hours)
Prerequisites: BSC2086, BSC2086L (with a grade of C or higher)
This course focuses on recognition of drug names and drug classes. Students will understand drug actions and the rationale for treatment; discern between sound-alike drugs; understand side effects, allergic effects and other effects of drugs; perform calculations for measurement and dosage; and address various healthcare issues relating to pharmacology including appropriate documentation of drugs.
HIM1610C  Office Applications for Health Professions (AS)  
3 credits (2 lecture hours, 2 lab hours)  
This course will provide instruction and hands-on practice using word processing, spreadsheet, database and presentation software to complete health care-based scenarios. This includes forms design, basic health data analytics, use of secondary data sources and graphical presentation of health care outcomes.

HIM1800C  Health Information Professional Practice (AS)  
2 credits (1 lecture hour, 8 lab hours)  
Prerequisite: Department chair's permission required  
This capstone course provides the student with professional practice experience with a health information management department to demonstrate mastery of require competencies. Previous course content will be applied in the workplace to reinforce and demonstrate skills and knowledge gained in previous coursework.

HIM2020C  Medical Transcription by Body System (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM2045C, HIM2652C (with a grade of C or higher)  
This beginner-level medical transcription course blends foundation skills with medical terminology, anatomy and physiology, advanced keyboarding, style and formatting with medical specialties and body systems. Students will transcribe basic reports used in acute health care covering dermatology, ophthalmology, otolaryngology, pulmonology, cardiology, gastroenterology, urology, obstetrics and gynecology, orthopedics, neurology, immunology, oncology and endocrinology, while meeting progressively demanding accuracy standards and developing research skills.

HIM2032C  Intermediate Medical Transcription (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1433C, HIM2020C (with a grade of C or higher)  
This course provides lecture and medical transcription of intermediate-level health care dictation using intermediate proofreading, editing, and research skills, while meeting progressively demanding accuracy and productivity standards. Transcription in a variety of medical specialties will require an understanding of the pathophysiology involved in each report. Speech recognition editing is introduced.

HIM2034C  Advanced Medical Transcription (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1442C, HIM2032C (with a grade of C or higher)  
This course provides transcription of advanced health care dictation including surgical specialties, radiology, pathology and laboratory medicine with emphasis on understanding the correlation between the medical specialty, pathophysiology and pharmacology. Speech recognition editing skills are advanced. Emphasis is on accuracy and increasing productivity.

HIM2045C  Foundation Skills for Medical Transcription (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: BSC2086, BSC2086L, HSC2531 (with a grade of C or higher), students must be able to type 45 wpm  
This introductory-level medical transcription course provides AHDI (Association for Healthcare Documentation Integrity) program objectives incorporating rules of English language, grammar punctuation, spelling and sentence structure with medical style standards specifically applicable to medical transcription. Use of appropriate reference materials, introduction to report formats, quality assurance and editing practices prepare the beginner medical transcriptionist to apply new medical knowledge to the creation of medical reports.

HIM2222C  Applied Inpatient Coding (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1282C, HIM1433C (with a grade of C or higher)  
This course will provide the student with instruction and hands-on application of advanced diagnostic coding conventions and applications including inpatient services. Reimbursement and compliance issues focusing on inpatient coding will be covered.

HIM2253C  Applied Outpatient Coding (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1282C, HIM1442C (with a grade of C or higher)  
This course will provide the student with advanced instruction and hands-on application of CPT coding for the physician office and hospital outpatient services. Topics will include the use of Modifiers, APCs, and medical necessity.

HIM2272C  Medical Reimbursement and Revenue (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1000C, HIM1282C (with a grade of C or higher)  
This course focuses on the fundamentals of health insurance and the processing of claims. Revenue cycle, payment methodologies, and billing compliance are the primary topics of study. Simulation of medical office billing software, encoder software will be used to enhance the student's understanding of the details used in medical insurance billing. Various types of insurance, third party payers and common billing problems will be included for both the inpatient and outpatient settings.
HIM2304C  Health Information Department Management (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1210C, MAN2021 (with a grade of C or higher)  
Leadership in the Health Information Management department in both the traditional acute care setting and in non-traditional settings will be taught within this course. The concepts of utilization management, risk management, and case management will be included in addition to human resources, workflow, and other management objectives as they apply to health information management.

HIM2510C  Health Care Data Analysis (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1210C, STA2023 (with a grade of C or higher)  
This course will teach students the various aspects of health data uses, conventions and organization. The student will apply the principles associated with assuring the quality of health care data, research procedures, and statistical analysis from both primary and secondary data sources.

HIM2651C  Applied Health Informatics (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: HIM1000C, HIM1210C (with a grade of C or higher)  
Review of the latest trends and applications in health informatics including guidelines for developing and implementing EHR strategies for health care organizations. Topics include the expanded interaction among HIM professionals with IT professionals, system vendors, system users, and other stakeholders. Additionally this course covers the Personal Health Record, e-Health record laws and regulations, e-prescribing, systems integration concepts and standards, messaging standards, and project management skills.

HIM2652C  Medical Transcription Advanced Keyboarding and Technology (AS)  
2 credits (1 lecture hour, 2 lab hours)  
Prerequisites: HSC2531 (with a grade of C or higher), students must be able to type 45 wpm  
Students learn advanced Microsoft Word functions and computer technology including productivity software, macros, word expanders, increasing speed and accuracy; downloading digital voice files; security, confidentiality and HIPAA compliance issues for remote employees; proper computer maintenance (virus protection, defragmenting disk drives, temporary files); electronic media, Internet research and references; importance of an ergonomic workstation; advanced Windows functions and shortcut keys.

HIM2802  Externship for Medical Transcription (AS)  
1 credits (8 lab hours)  
Prerequisites: HIM1000C, HIM2034C (with a grade of a C or higher)  
Students transcribe various health care documents from original dictation representing various specialties, authors, and formats in a simulated professional practice setting. Focus is on transcription accuracy, productivity, professional and ethical conduct, dynamics and ergonomics of work environments and the importance of industry, networking and professional organizations. Students prepare to sit for the AHDI Registered Medical Transcriptionist (RMT) Certification Exam.

HIM2810L  Advanced Coding Practicum (AS)  
1 credits (8 lab hours)  
Prerequisite: Program manager's permission required  
This course provides the student with coding simulation experience. Students will be able to demonstrate the ability to code from source documents using both diagnostic and procedural coding. In this process, they will utilize knowledge gained from previous coding courses to research diseases and/or conditions, related procedures, and treatments; this information will be abstracted from source documents and presented in audit format.

HOS1010  Introduction to Horticulture (AS)  
3 credits (3 lecture hours)  
This course explores every key facet relevant to subtropical horticulture: basic plant science, fertilization, irrigation, pest management, plant selections, propagation, planning, soils, mulching, plant installation, and plant maintenance.
HSA3110 Health Care Organization and Management (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
An examination of organizational structure of a variety of health care facilities, including general hospitals, ambulatory facilities, HMOs, long-term care facilities, neighborhood health centers and the implications of such organizational structure for successful administration.

HSA3160 Health Care Marketing (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
A comprehensive overview of marketing strategies and technologies that might effectuate productive network systems. The primary focus will be processes within the health care system. Emphasis will be put on process from an administrative perspective.

HSA4109 Principles of Managed Care (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
Basic knowledge relating to the perspective and practices of managed care. Special features of managed care will be discussed including primary care provider, care containment, utilization review and case management; types of managed care plans/models will be explored.

HSA4421 Legal Aspects and Legislation in Health Care (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
Corporate structure and legal liabilities of health care institutions and professionals are studied from a local, state and federal regulatory position.

HSA4553 Ethics in Health Care (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
The principles of ethical issues surrounding health care consumers and providers of health care are examined in depth. The course focuses on ethics and its principles and application in service settings. Contemporary issues confronting those delivering and using health care will be examined.

HSA4938 Capstone Experience: Health Management (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher); This course should be taken during the last semester of the program, and requires Bachelor's department approval.
This course focuses on the integration of knowledge, skills, and abilities learned in the program through a capstone project.

HSC0003 Health Care Concepts (PSAV)
78 clock hours
This course provides an overview of the health care delivery system. Content will include health occupations, roles and responsibilities of the health care team, consumer rights, legal and ethical guidelines, communication skills, safety and security procedures, infection control and knowledge of blood borne diseases.

HSC0003L Health Care Concepts Lab (PSAV)
12 clock hours
This course provides a laboratory/skills session to supplement HSC0003. The student will be introduced to hands on care skills for patient personal care including bed making.

HSC1101 Contemporary Issues in Health (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate English and reading placement test scores or exemption from placement testing.
This course is designed to provide students with scientific information on many of today's important health related topics and issues. Using current events and evolving research, emphasis is on the leading causes of death and the development of personal wellness plans to help prevent life-style diseases. There is a major focus on self-assessment and up-to-date data from the fields of stress management, nutrition, weight management and physical fitness. (*)

HSC2100 Health Concepts and Strategies (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate English and reading placement test scores or exemption from placement testing.
Covers knowledge that applies to the promotion of good health of the individual, family and society. Emphasis is on various health needs defined as the physical, emotional, social, spiritual and intellectual aspects. Emphasis is placed upon stress management, disease prevention, fitness, nutrition and the development of an effective wellness lifestyle. (*)
HSC2130  Human Sexuality Education (AA)
3 credits (3 lecture hours)
Course provides scientific knowledge about sexuality, which enables the application and promotion of good health. For self, family and society. Emphasis is on human sexual biological systems and responses, reproduction and birthing/ control, gender identify/ role, sexuality through the life cycle, sexual relationships and sexual values, sexual dysfunction/therapy and sexually transmitted diseases.

HSC2140  Drug Education (AA)
3 credits (3 lecture hours)
Licit and illicit, use, misuse, and abuse of drugs on human behavior and society engender major social (institutional) problems. The impact on individual lives, health costs and social consequences is staggering. Included are the biological and historical information about drugs and scientific aspects of their pharmacological effects on mind and body.

HSC2204  Community Health Education (AA)
3 credits (3 lecture hours)
Prerequisite: HSC2100 recommended
This course is an introduction to the nation's community health system and related educational functions. Surveyed are historical and administrative structures, concepts and scope of varied programs, (county, state and federal) topical treatment of major contemporary health problems and the relatedness of health education and community functions.

HSC2531  Medical Terminology (AA)
3 credits (3 lecture hours)
This course provides preparation for health-related vocations with the commonly used medical terminology. The components of medical terms are analyzed, terms are defined and use of medical dictionary and related sources are emphasized.

HSC4500  Epidemiology (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
Study of epidemiology as a scientific discipline and its role in health service planning and administration. Emphasis on methods for studying chronic disease, public health, vital statistics, sanitation, and communicable disease.

HUN1201  Elements of Nutrition (AA)
3 credits (3 lecture hours)
This course provides an in-depth view of digestion, absorption, the metabolic pathways of the nutrients and hormonal regulation of these pathways. Factors related to regulating energy needs, current government dietary guidelines, specific lifecycle needs and research-based standards for analyzing nutrient adequacy are examined. Concerns with food-borne illness and water contamination are also reviewed. (*)

HUS1001  Introduction to Human Services (AA)
3 credits (3 lecture hours)
This course provides an introduction and orientation to the field of Human Services. The history, current concepts and roles of beginning professionals, community services and agencies are examined. The knowledge, ethics, skills and attitudes necessary to the field of Human Services are discussed. The student will demonstrate knowledge, ethical principles, skill and attitudes in practical application using the process of analysis and research of client needs and agency services.

HUS1200  Principles of Group Dynamics (AS)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher)
A course designed to help students increase their ability to work effectively with others. Group processes are explored including cohesion, conflict, individual roles, communications, and problem-solving.

HUS1203  Principles of Group Facilitation (AS)
3 credits (3 lecture hours)
A course designed to help students increase their ability to work effectively with children/youth in group settings. Group processes explored include cooperative learning, conflict resolution, communication and problem-solving.

HUS1302  Counseling and Interviewing (AS)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher)
This course teaches skills, knowledge and attitudes for counseling, interviewing, and problem solving as used in therapy or in everyday situations. The course develops counseling skills for the client-counselor relationship. The students will learn and practice problem-solving techniques, which help the client identify problems and work systematically for solutions. Interviewing is taught as a component of the counseling process. Techniques used in assessing the client and the problems are taught as part of the total process.
HUS1356  HIV AIDS and Domestic Abuse (AS)
1 credits (1 lecture hours)
This course will provide students with a general overview of HIV-related topics involving state and federal laws, confidentiality, and discrimination. It will broaden students' understanding of domestic abuse and explain how domestic violence occurs and the factors that lead to it.

HUS1400  Psychopharmacology of Drugs of Abuse (AS)
2 credits (2 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher) or permission of instructor
This course provides students with an introduction to psychopharmacology and an overview of drugs and their action and effects on the body and brain, as well as, an exploration of use and abuse of both legal and illegal drugs.

HUS1421  Assessment and Treatment Planning in Addictions (AS)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher) or permission of instructor
This course introduces students to a variety of models and theories of addiction. It enables students to master the core functions of screening, intake and assessment. Students will study the process of identifying problems, establishing goals, and deciding on a treatment plan for clients.

HUS1423  Group Counseling in Substance Abuse (AS)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher) or permission of instructor
Students will acquire knowledge of group processes and practices in group counseling. Students will be introduced to different types of groups and understand how theory guides practice. Group counseling, as it specifically relates to addictions, is emphasized.

HUS1424  Counseling the Chemically Dependent Person (AS)
3 credits (3 lecture hours)
Prerequisite: HUS1302
This course provides an overview of counseling/treatment modalities used in chemical dependency. It addresses the pathology of chemical dependency and provides knowledge of helping resources. Discussion, role-play, and critique are used as teaching tools. Both individual and group counseling techniques are discussed.

HUS1440  Family Issues in Chemical Dependency (AS)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher) or permission of instructor
This course prepares students to assess, identify, and treat individuals and families affected by addiction and familiarizes them with current treatment methods, techniques, and practices in the AODA field.

HUS1450  Dual Diagnosis (AS)
3 credits (3 lecture hours)
Prerequisite: PSY2012 (with a grade of C or higher) or permission of instructor
This course acquaints students with concepts of chemical dependence, co-occurring disorders, and their impact on families and the community. Developmental models, theories, etiology of addictions/addictive behaviors and theory of dual diagnosis are explored. Students will examine different strategies and techniques on how to identify and assess persons with dual diagnosis.

HUS1620  Principles and Best Practices in Afterschool Programs (AS)
3 credits (3 lecture hours)
An overview of the knowledge and skills necessary to implement a developmentally appropriate afterschool program for children and youth. The course examines established quality program elements and standards and best practices and their practical application to daily program practice.

HUS1640  Principles of Youth Work (AS)
3 credits (3 lecture hours)
Prepares students to function as youth workers using a youth development approach in community-based, residential, group home and other youth work environments. Students will explore these concepts: developing a professional awareness of youth work; identifying and distinguishing between asset building models and deficit based models of adolescent development; and developing a capacity to design and implement programs consistent with the needs of youth in relation to available resources.

HUS1850  Field Work in Human Services 1 (AS)
3 credits (3 lecture hours)
Prerequisites: HUS1302 or HUS1200 or HUS2308 or HUS1203; Corequisite: HUS1850L
This course offers an understanding of the role and function of programs and services in a variety of human services organizations, including the not-for-profit agencies. In addition, students study the private sector of human service organizations, using both macro and micro practices.
HUS1850L  Field Work in Human Services 1 Internship (AS)  
3 credits (9 lab hours)  
Prerequisite: HUS1302 or HUS1200 or HUS2308 or HUS1203; Corequisite: HUS1850  
Each student is assigned to a human services program for approximately 9 hours a week, for 16 weeks, and must have a minimum of 144 fieldwork hours during the semester. Students are supervised by the instructor and personnel of the Human Services program. On-the-job training includes interviewing and counseling clients and their families, assessment and planning, monitoring and observation, problem solving, participating in group and individual therapy, intervention and treatment and linking clients with community resources.

HUS2308  Psychotherapy: Theory and Practice (AS)  
3 credits (3 lecture hours)  
Prerequisite: PSY2012 (with a grade of C or higher)  
This course provides an overview of current approaches to psychological counseling and psychotherapy including psychoanalysis, client-centered, Gestalt, transactional analysis, reality therapy, behavior therapy, and rational-emotive therapy. The course examines basic issues in counseling and psychotherapy, including ethical issues. Emphasis is on both the theory and practical applications of the various approaches.

HUS2320  Introduction to Crisis Intervention (AS)  
2 credits (2 lecture hours)  
Prerequisite: PSY2012 (with a grade of C or higher) or permission of instructor  
This course provides students with the theoretical and practical understanding of human crises. It includes intervention techniques and referral to facilities and agencies available for persons in crisis situations.

HUS2851  Field Work in Human Services 2 (AS)  
2 credits (2 lecture hours)  
Prerequisite: HUS1850  
This course provides the second fieldwork class required by the A.S. program which offers the student another opportunity to work in a different human service agency. This second class allows the student more exposure and experience in working in the field, in order to enhance the understanding of the role and function of programs and services in a variety of human service organizations.

HUS2851L  Field Work in Human Services 2 Internship (AS)  
3 credits (9 lab hours)  
Prerequisite: HUS1200 or HUS1302 or HUS2308; Corequisite: HUS2851  
This course provides the second module of fieldwork to enable each student to participate in a second area of "learning by doing", or on-the-job training. Students will continue under supervision and will keep a daily journal of their on-the-job experiences to share with their classmates and instructors.

IDH2105  Honors Knowledge Through the Ages (AA)  
3 credits (3 lecture hours)  
Prerequisites: ENC1101 (or ENC1121) (with a grade of C or higher) and admission to the Honors College  
What does it mean to be an honors student? This seminar deals with the great academic discussion "What is knowledge and who am I?" started in the languages of antiquity and continued through today. The process of rational thought, the rise of the university and the evolution of information revolutions, combine to present approaches to knowledge that the various disciplines employ in science, mathematics, linguistics, psychology and the humanities.

IDH2911  Honors Research Process (AA)  
3 credits (3 lecture hours)  
Prerequisite: Admission to the Honors College  
This honors course will introduce students to the process of research, i.e. the tools, concepts and resources necessary to search, evaluate and use information in a variety of formats and subject disciplines. The focus will be to analyze and utilize information critically using a broad range of materials and interdisciplinary concepts needed for honors research and academic/professional success.

IND1233C  Design Studio 1 (AS)  
4 credits (3 lecture hours, 2 lab hours)  
Corequisite: IND1401C (with a grade of C or higher)  
This course provides an introduction to interior design fundamentals, space analysis and problem solving. Emphasis will be given to design theory, design terminology and the design process. Students will build upon conceptual and technical skills learned while examining the built environment and human factors through research, drawing and visual perception.
IND1234C  Design Studio 2 (AS)
4 credits (3 lecture hours, 2 lab hours)
Prerequisite: IND1233C, IND1401C (with a grade of C or higher); Corequisite: IND2424C (with a grade of C or higher)
This course provides the study of interior design concepts and requirements in residential projects. Programming, human factors, ergonomics, space planning and the study of the functional and aesthetic aspects of residential environments will be explored. Students will continue to develop and expand their ability to address the challenges of complex design issues while strengthening graphic communication and presentation skills.

IND1401C  Technical Design 1 (AS)
4 credits (3 lecture hours, 2 lab hours)
Corequisite: IND1233C (with a grade of C or higher)
This course provides an introduction to graphic communication theory and the various drawing techniques employed in the interior design process. It includes two-dimensional drafting techniques and terminology used in the production of floor plans, elevations and section drawings for interior design applications. The focus will be on creating accurate architectural drawings using manual drafting techniques.

IND1935  Building and Barrier Free Codes (AS)
3 credits (3 lecture hours)
Prerequisite: IND1233C (with a grade of C or higher)
This course provides building and barrier-free codes requirements essential for the design and development of residential and commercial spaces. It includes the basic skills required to understand and apply fundamental code concepts to building design and construction, and the specific provisions for barrier-free interiors as mandated in the Americans with Disabilities Act, Aging-in-Place concepts and Universal Design principles.

IND2100  History of Interiors 1 (AS)
3 credits (3 lecture hours)
This course provides a historical review and an integrated approach to the study of the design of the built environment from Ancient Egypt through the Eighteenth Century. It includes design and architectural terminology, classical forms, motifs and furniture styles.

IND2130  History of Interiors 2 (AS)
3 credits (3 lecture hours)
This course provides a historical review and an integrated approach to the study of the design of the built environment from the Nineteenth Century to the present. It includes design and architectural terminology, classical and modern forms, motifs and furniture styles.

IND2202C  Kitchen and Bath Design (AS)
4 credits (3 lecture hours, 2 lab hours)
Prerequisites: IND1234C, IND2424C (with a grade of C or higher)
This course provides the student with the opportunity to learn the special considerations necessary to design safe and functional kitchens and bathrooms utilizing standards established by the National Kitchen and Bath Association (NKBA). Students develop comprehensive projects solving kitchen and bath design problems.

IND2237C  Design Studio 3 (AS)
4 credits (3 lecture hours, 2 lab hours)
Prerequisites: IND1234C, IND2424C (with a grade of C or higher)
This course provides emphasis on issues of public and private use of interior spaces such as offices, financial institutions and hospitality spaces. Application of research, programming, space planning, technical issues, furniture and material specification, and final presentation with attention to environmental needs and building codes.

IND2238C  Design Studio 4 (AS)
4 credits (3 lecture hours, 2 lab hours)
Prerequisite: IND2237C (with a grade of C or higher)
This course focuses on advanced concepts of public and commercial interior design projects. Application of research, programming, space planning, construction documentation, furniture and material specification, and final presentation with attention to environmental issues and building codes.

IND2307C  Interior Design Graphics (AS)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: IND1401C (with a grade of C or higher)
This course emphasizes on graphic communication as part of the design process. Integration of drawing skills employed in representational methods used to analyze and describe interiors and conceptual ideas. One and two point perspective drawings, material delineation, tonal investigation, compositional and presentation techniques are included.
IND2420  Materials, Estimating and Specifications (AS)  
3 credits (3 lecture hours)  
This course provides with information to establish a systematic approach for selecting materials in interiors. Students will create the content of specifications documents for interiors emphasizing code requirements and testing standards. Environmental issues and concerns in relation to the product materials will be addressed. Students will learn the appropriate estimating techniques to determine accurate material amounts for any given job.

IND2424C  Technical Design 2 (AS)  
4 credits (3 lecture hours, 2 lab hours)  
Prerequisite: IND1401C (with a grade of C or higher); Corequisite: IND1234C with a grade of C or higher  
This course covers intermediate technical aspects of materials, structure and mechanical systems. The focus is on architectural construction, finish materials, millwork, and specifications. Drafting and working drawings are emphasized.

IND2432C  Interior Lighting (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: IND1234C, IND2424C (with a grade of C or higher)  
A study of lighting principles, lighting systems, light sources, calculation of lighting levels, communication of lighting design and specifications. Emphasis is placed on communicating a design solution by practical application of learned principles in residential and non-residential environments.

IND2460C  CAD for Interiors 1 (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: IND1401C (with a grade of C or higher)  
This course is an introduction to computer-aided design and drafting as it applies in the field of interior design. It includes basic computer concepts, current software and its application in two-dimensional drawings of residential and commercial interiors.

IND2463C  CAD for Interiors 2 (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisite: IND2460C (with a grade of C or higher)  
This course provides the study of computer-aided design and drafting as it applies in the field of interior design. It includes advanced software concepts and its application in two-dimensional and three-dimensional drawings of residential and commercial interiors.

IND2505  Professional Practices (AS)  
3 credits (3 lecture hours)  
This course provides interior design business principles and practices, project management, contract documentation and contract administration. It also includes legal aspects, marketing strategies, professional ethics and career planning.

IND2608C  Sustainable Design (AS)  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: IND1233C, IND1401C (with a grade of C or higher)  
This course will focus on the study of global environmental issues and their impact on the design process, including the history, principles and theories of sustainability, product standards and certifications, and the LEED Green Building Rating System. It will provide students with the opportunity to utilize sustainable design philosophies, products, and processes with emphasis placed upon environmental awareness in the creative process.

IND2941  Interior Design Internship (AS)  
2 credits (10 lab hours)  
Prerequisite: IND1234C (with a grade of C or higher)  
This course will prepare the student to enter the professional world of interior design. The student will acquire practical experience by actually working in a professional interior design business, and under proper guidance will experience various aspects of the professional world.

INR2002  International Relations (AA)  
3 credits (3 lecture hours)  
Prerequisites: POS1001 or POS1041 (with a grade of C or higher) or permission of the instructor  
This course provides the dynamics of global politics practiced today, including analysis and application of theories about international relations and a study of international political systems. Students look at actors influencing the international political agenda and conflicts, focusing on issues facing international leaders, such as military security, trade and political economy, environmental threats, human rights abuses, refugees, crime and terrorism.
ISC1053  Science Foundations (AA)
1 credits (1 lecture hours)
This introductory general science class will prepare students for transfer level science classes. The course emphasizes strengthening science related knowledge and skills to increase understanding of several science branches. Students will explore topics including: the scientific method, basic math used in science, scientific terminology, and foundation level biology/chemistry concepts. A focus will be placed on study skills and individual accountability.

ISM3113  Systems Analysis and Design (BAS)
3 credits (3 lecture hours)
Prerequisite: GEB3213 (with a grade of C or higher)
This course introduces the student to the analysis, design, implementation, and operation of information systems. Students will learn the various approaches to analyzing information systems and the steps necessary to gather information on the system requirements and to model business needs. They will then create blueprints for how the system should be built. The students will work on real world projects to apply the concepts and methods learned in this class.

ISM3212  Database Management Systems (BAS)
3 credits (3 lecture hours)
Basic instruction in Data Structures, Data Modeling and Data Dictionaries. Main features of Linked-List, Hierarchical, Network and Relational Database Models as well as extensive Business Application problem solving is included.

ISM3314  Project Management (BAS)
3 credits (3 lecture hours)
Prerequisite: GEB3213 (with a grade of C or higher)
This course will introduce students to the processes of project planning from the early stages of brainstorming through project planning including creating timetables, resource management, implementation, along with the basics of writing project proposals. Students will learn to select appropriate planning techniques and software. Students will plan and propose a project appropriate to their fields of study.

ISM4011  Management Information Systems (BAS)
3 credits (3 lecture hours)
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)
Study of language, concepts, structures, and processes involved in management of information systems including fundamentals of computer-based technology, and the use of business-based software for support of managerial decisions.

ISM4117  Data Mining and Data Warehousing (BAS)
3 credits (3 lecture hours)
Prerequisite: ISM3212 (with a grade of C or higher)
The student will utilize the techniques of data mining (DM). The implementation and benefits of data mining for industries such as retail, target marketing, fraud protection, health care, web, and E-commerce will be examined. The student will examine detailed case studies and will use current mining tools on real data.

ISM4210  Database Administration and Architecture (BAS)
3 credits (3 lecture hours)
Prerequisite: ISM3212 (with a grade of C or higher)
This course explores the day-to-day tasks of a database administrator. The essential techniques for database optimization, sizing and configuring storage space for tables, indexes, sub-indexes as well as security consideration in an N-tier distributed architecture will be examined and implemented.

ISM4211  Database Systems and Physical Design (BAS)
3 credits (3 lecture hours)
The student will learn the managerial activities performed by a database administrator and learn how to optimize the access to databases. The physical design, database server architecture, capacity planning, and storage structure are examined. Security and maintenance tasks will be performed.

ISM4213  Advanced Database Management (BAS)
3 credits (3 lecture hours)
Prerequisite: ISM3212 (with a grade of C or higher)
The student will learn the fundamentals and applications of database management systems. The student will implement, compile, and execute stored database procedures and functions. The student will apply advanced techniques such as data structure management, error management, data management, application management, and transaction management.
ISM4220  Business Data Communications, Telecommunications/Network (BAS)  
3 credits (3 lecture hours)  
Prerequisite: CNT2000 (with a grade of C or higher)  
This course provides the student with an understanding of the basic features and technologies used in computer networks. The technologies necessary to implement voice, data, and information networks will be examined. The student will gain an understanding of the practical application of networks in the management of a business.

ISM4312  Project and Change Management (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM3314 (with a grade of C or higher)  
Introduces the use of scheduling, resource-allocation, and capacity planning in the design, development, and implementation of information systems and/or system changes. Covers state of the art models, such as the Capability Maturity Model developed at the Software Engineering Institute.

ISM4313  Managing IT Integration (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM3314 (with a grade of C or higher)  
Course requirements include acquisition and sourcing, integration, project management, testing and quality assurance, organizational context and architecture.

ISM4320  Applications in Information Security (BAS)  
3 credits (3 lecture hours)  
Prerequisite: CNT2402 (with a grade of C or higher)  
The student will become familiar with the applications that are necessary to secure a network from intrusion; firewalls, Bastion Hosts, Proxy Servers, and Honeypots will be implemented. The student will also use applications to perform vulnerability testing to determine network weaknesses.

ISM4323  Security Management (BAS)  
3 credits (3 lecture hours)  
Prerequisites: CNT2402, ISM4220 (with a grade of C or higher)  
The management of information security and its relation to organizational management will be examined in this class. The student will learn how to develop security policies. Development of policies will include procedures for assessing an organization's security, identifying risks, and reviewing laws and ethics.

ISM4324  Computer Forensics (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM4320 (with a grade of C or higher)  
This course provides the student with an understanding of the importance of computer forensics and the procedures and responsibilities of investigators. The student will obtain digital evidence through the forensic analysis of computers and networks. The student will perform network surveillance and analyze intrusion signatures. The methodology of how intrusion incidents should be handled will also be examined.

ISM4330  Capstone Experience: Database Administration (BAS)  
3 credits (3 lecture hours)  
Prerequisite: This course should be taken during the last semester of the program, and requires Bachelor's department approval. This course focuses on the integration of knowledge, skills, and abilities learned in the Information Management Database Administration or Security and Network Assurance (IT Forensics) program concentrations through a capstone project.

ISM4331  Capstone Experience: Security and Network Assurance (BAS)  
3 credits (3 lecture hours)  
Prerequisite: This course should be taken during the last semester of the program, and requires Bachelor's department approval. This course focuses on the integration of knowledge, skills, and abilities learned in the Information Management Security and Network Assurance (IT Forensics) program concentration through a capstone project.

ISM4332  IT Project Schedule and Cost Control (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM3314 (with a grade of C or higher)  
Students will develop fundamental skills in estimating, scheduling, cost control, and reporting, essential for successful information technology projects.
ISM4881  Capstone Experience: Project Management (BAS)
3 credits (3 lecture hours)
Prerequisite: This course should be taken during the last semester of the program, and requires Bachelor's department approval.
This course is the capstone class for technology management and it will be the opportunity for the student to demonstrate that he/she has assimilated the material from the program and can apply it in the real world. It focuses on giving the student practical, business-world experience in actual cases and companies dealing with technology management issues today.

LDE2000  Introduction to Landscape Design (AS)
3 credits (3 lecture hours)
This introductory course teaches the theory and practice of landscape design. Students will be given a basic understanding of the design process that includes a needs survey, site and project analysis, base plan and design preparation, budgeting and presentation.

LDE2510  Computer-Aided Landscape Design (AS)
3 credits (3 lecture hours)
Prerequisite: ORH2830 recommended or consent of instructor
In this course students with introductory design skills are taught the advanced techniques of computer-aided landscape design. Proficiency in generating finished designs, estimating, and plotting are emphasized.

LIN2740  Applied Linguistics (AA)
3 credits (3 lecture hours)
This course will focus on the application of general linguistics, including syntax, morphology, phonology, psycholinguistics, and sociolinguistics, to teaching English as a second language with emphasis on classroom application of linguistic theories for ELLs (English Language Learners).

LIT1000  Introduction to Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or its equivalent (with a grade of C or higher)
In this course students will analyze readings from the basic genres of writing: fiction, non-fiction, poetry and drama. The course will provide students with the tools to sharpen their critical skills in reading, analyzing, and writing, while exploring the fundamental elements of literature--such as theme, plot, setting, characterization, and language. Students will also work on developing an appreciation for major writers and their influences. This process will also help students develop a deeper understanding of the importance of literature as both a reflection of and a contributor to the human experience. This course is a Gordon Rule writing course as defined by SB Rule 6a-10.030. The planning, organization, and writing of critical papers is covered. This course involves significant reading, writing, and discussion. (*)

LIT2050  Survey of Literary Humor (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Introduction to Literary Humor is an international and multicultural course that examines humor and its genres in literature. Through reading, visual aids, writing, and discussion, students will discover the diversity of literary humor spanning the globe, in a variety of time periods, and across culture. (*)

LIT2090  Contemporary Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
The study of major writers and literary trends since 1945 focuses on students' own time and place in the world paired with critical reading of important contemporary works of literature and writing about those works. The course fulfills general education requirement for literature. (*)

LIT2110  World Literature Before the Renaissance (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Selected literary texts of the ancient, medieval and Renaissance periods to 1600 are read and interpreted. Students will focus on reading, interpreting and discussing the literature and on its contributions to our understanding of what it means to be human. (*)

LIT2120  World Literature After the Renaissance (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Selected literary texts of the Enlightenment, the Romantic period, the period of Realism and Naturalism and the modern era are read and interpreted. Students will focus on reading, interpreting and discussing the literature and on its contributions to our understanding of what it means to be human. (*)
LIT2190  Introduction to Afro-Caribbean Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
Introduction to Afro-Caribbean Literature is a broad survey course that includes African, Caribbean, and African-American authors connected by the colonial experience. Students will study writers who write in English, or whose works have been translated in English, from the 17th century to the present in terms of their critical, social, political, and historic contexts. Although the course looks at writers of the African diaspora, the works of Caribbean authors are emphasized. (*)

LIT2370  The Bible as Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
A survey of works collected in the Hebrew Bible and the New Testament, focusing on literary features that influence interpretation, as well as on the significance these works have for students as modern readers. (*)

LIT2380  Women In Literature (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
The development of the tradition of literature by women in English from the seventeenth century to the present. Students will read works in different genres and will understand women's literature as at once both attached to and counter to the mainstream tradition. (*)

MAC1105  College Algebra (AA)
3 credits (3 lecture hours)
Prerequisite: MAT1033C (with a grade of C or higher)
This course includes: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; applications (such as curve fitting, modeling, optimization, exponential and logarithmic growth and decay). (*)

MAC1114  Trigonometry (AA)
3 credits (3 lecture hours)
Prerequisite: MAC1140 or MAC1105 (with a grade of C or higher)
Topics include trigonometric functions of angles and real numbers, trigonometric identities and equations, solutions of right and oblique triangles with applications, complex numbers, and analytic geometry (the conic sections). (*)

MAC1140  Precalculus (AA)
3 credits (3 lecture hours)
Prerequisites: A suitable score on the placement test or MAC1105 (with a grade of C or higher)
Topics include relations and functions, systems of equations, matrices, determinants, quadratic equations and inequalities, exponential and logarithmic functions, linear programming, sequences, series, induction and the Binomial Theorem. (*)

MAC1147  Precalculus Algebra and Trigonometry (AA)
5 credits (5 lecture hours)
Prerequisite: MAC1105 (with a grade of B or higher)
This course is designed to satisfy the dual requirements of MAC1114 and MAC1140, preparing the student for Calculus. Polynomial, rational, and other algebraic functions; trigonometric, inverse trigonometric, exponential and logarithmic functions; piecewise-defined functions; properties and graphs of functions; polynomial and rational inequalities; trigonometric identities; conditional trigonometric equations; conic sections; solutions of triangles; vector algebra; parametric equations; polar coordinates; matrices and determinants; sequences and series; mathematical induction; binomial theorem; applications. (*)

MAC2233  Survey of Calculus (AA)
3 credits (3 lecture hours)
Prerequisite: MAC1105 or MAC1140 (with a grade of C or higher) with suitable placement scores.
Not open to students who have credit in MAC2311. Rates of change, derivatives, and integration with applications to business are studied. (*)

MAC2311  Calculus With Analytic Geometry 1 (AA)
4 credits (4 lecture hours)
Prerequisites: MAC1114 and MAC1140 (with a grade of C or higher) or MAC1147 (with a grade of C or higher)
Topics included are derivatives and integration of algebraic, trigonometric, exponential and logarithmic function, with applications. (*)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Lecture Hours</th>
<th>Prerequisites</th>
<th>Topics Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC2312</td>
<td>Calculus With Analytic Geometry 2 (AA)</td>
<td>4</td>
<td>4</td>
<td>MAC2311 (with a grade of C or higher)</td>
<td>Techniques of integration, conic sections, polar coordinates, parametric equations, applications, and infinite series. (*)</td>
</tr>
<tr>
<td>MAC2313</td>
<td>Calculus With Analytic Geometry 3 (AA)</td>
<td>4</td>
<td>4</td>
<td>MAC2312 (with a grade of C or higher)</td>
<td>Solid analytic geometry and vectors in space, partial differentiation, multiple integration and line integrals. (*)</td>
</tr>
<tr>
<td>MAN2021</td>
<td>Principles of Management (AS)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Study of principles of management, planning, organizing, staffing and controlling applicable to production, personnel, marketing, finance, government, education, agriculture and armed forces.</td>
</tr>
<tr>
<td>MAN3025</td>
<td>Administrative Management (BAS)</td>
<td>3</td>
<td>3</td>
<td>admission to the BAS Supervision and Management program or consent of the department</td>
<td>Introduction to the theory and practice of managing formal organizations, including planning, organizational theory, human behavior and control.</td>
</tr>
<tr>
<td>MAN3240</td>
<td>Organizational Theory and Management (BAS)</td>
<td>3</td>
<td>3</td>
<td>admission to the BAS Supervision and Management program or consent of the department</td>
<td>This course is a study of individual and group behavior in organizations. Students will develop an understanding of how organizations can be managed more effectively. Course content includes motivation, group dynamics, conflict resolution, goal setting and rewards, job design, work stress, power/politics, and organizational change and development.</td>
</tr>
<tr>
<td>MAN3301</td>
<td>Human Resources Management (BAS)</td>
<td>3</td>
<td>3</td>
<td>FIN3400, GEB3213 (with a grade of C or higher)</td>
<td>Study of the functions of human resource management including recruitment, selection, benefits and compensation, performance evaluation, development of employees, and formulation of human resource procedures. The strategic role of human resources and current issues will be discussed.</td>
</tr>
<tr>
<td>MAN4120</td>
<td>Leadership Challenges and Supervision (BAS)</td>
<td>3</td>
<td>3</td>
<td>FIN3400, GEB3213 (with a grade of C or higher)</td>
<td>Discussion and application of leadership theories include skill formation to develop leadership abilities. Team building skills are emphasized to enhance leadership effectiveness. Students learn the importance of visioning in their organizations.</td>
</tr>
<tr>
<td>MAN4162</td>
<td>Customer Relations for Business (BAS)</td>
<td>3</td>
<td>3</td>
<td>FIN3400, GEB3213 (with a grade of C or higher)</td>
<td>This course examines relationship building for all customers of an organization. The impact of culture and diversity on business relationships, successful negotiation strategies, and promotion of the organization through media relations are discussed.</td>
</tr>
<tr>
<td>MAN4401</td>
<td>Labor Relations Management (BAS)</td>
<td>3</td>
<td>3</td>
<td>FIN3400, GEB3213 (with a grade of C or higher)</td>
<td>This course explores the impact of employees' organizations on labor relations, current problems, conflicts and trends, and includes the development of managerial approaches to achieve labor-management cooperation.</td>
</tr>
<tr>
<td>MAN4504</td>
<td>Operational Decision Making (BAS)</td>
<td>3</td>
<td>3</td>
<td>FIN3400, GEB3213 (with a grade of C or higher)</td>
<td>The application of management systems, project management, quantitative principles and techniques to the effective planning and utilization of resources in the operations of manufacturing, research and services.</td>
</tr>
<tr>
<td>MAN4520</td>
<td>Quality Management Control (BAS)</td>
<td>3</td>
<td>3</td>
<td>ISM3314 (with a grade of C or higher)</td>
<td>Overview of the history and current practices related to the quality movement. Students will study contributions of quality experts such as Deming, Juran and Crosby, and will be introduced to the concepts of team management, group processes, and problem-solving skills. Various measurement tools for process improvement and control will be examined.</td>
</tr>
</tbody>
</table>
MAN4574  Acquisitions Management (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM3314 (with a grade of C or higher)  
Students will be exposed to the fundamentals of acquisitions. This course provides conceptual material on acquisitions, to include program planning, execution, and control. Students will be introduced to the elements of program risk and learn risk management techniques. The systems engineering process will be emphasized to include work-breakdown structures, cost-benefit analysis, and scheduling.

MAN4584  Project Risk Management (BAS)  
3 credits (3 lecture hours)  
Prerequisite: ISM3314 (with a grade of C or higher)  
This course is designed to give insight into the problems that may arise in a project setting. This course will also give students the needed skills to identify risks and make preparations to diffuse and solve conflicts. This course will also allow students to become familiar in the preparation and skills used to diffuse risk in the project management setting.

MAN4802  Entrepreneurship and Small Business Management (BAS)  
3 credits (3 lecture hours)  
In this course students will study the factors involved in starting and managing a small to medium size business. Emphasis will be placed on conduct of pre-business feasibility study, start-up of business, successful management of the firm, and options for succession or termination.

MAP2302  Differential Equations (AA)  
3 credits (3 lecture hours)  
Prerequisite: MAC2312 (with a grade of C or higher)  
Topics include ordinary differential equations, the Laplace transform, differential operators, systems of equations, orthogonal trajectories, electric networks, and inverse transforms. (*)

MAR2011  Principles of Marketing (AA)  
3 credits (3 lecture hours)  
This course places emphasis on marketing-strategy planning. The topics covered include: the micro role in society and its macro role in business, the external environments affecting marketing, marketing research, behavioral features of the consumer market and intermediate customers, market segmentation and developing the marketing mix of product, place, promotion and price.

MAR4802  Marketing for Managers (BAS)  
3 credits (3 lecture hours)  
Prerequisites: FIN3400, GEB3213 (with a grade of C or higher)  
This course helps develop the marketing knowledge and skills necessary for the successful manager of an organization. Students will understand marketing concepts, including the development of and execution of a marketing strategy. The course focuses on business-to-business and business-to-government marketing as well as the marketing of services.

MAS2103  Linear Algebra (AA)  
3 credits (3 lecture hours)  
Prerequisite: MAC2311 or MAC2233 (with a grade of C or higher)  
Vectors and vector spaces, linear transformations and matrices, rank and determinants, systems of linear equations, diagonalization, characteristic values. (*)

MAT0022  Developmental Algebra (Dev Ed)  
4 institutional credits (4 lecture hours)  
Prerequisite: Non-Exempt students will need to provide a CPT score of 0-71 (EA) or a PERT score of 55-113; Corequisite: SLS1501  
This course provides a transition from arithmetic to algebra and a solid foundation in algebra for purpose of preparing students for credit mathematics courses. This course covers integers, fractions, decimals, equations, proportions, inequalities, polynomials, graphing, rational expressions, and radical expressions with real applications integrated throughout.

MAT0055  Developmental Math 1 (Dev Ed)  
1 institutional credits (1 lecture hours)  
Prerequisite: CPT score of 45-71 (EA), or PERT score of 109-113, or PERT Diagnostic score of 40-44; Corequisite: SLS1501  
Course satisfies the upper-level developmental math requirements in modular format. Topics include real numbers, solving linear equations, literal equations, and inequalities, graphing equations, integer exponents, polynomial operations, factoring polynomials, solving quadratic equations, simplifying rational expressions and radical expressions. Course consists of computer-based interactive instructional software and instructor assistance. Successful completion requires a minimum of 80% accuracy on the assigned unit(s).
MAT0056  Advanced Developmental Algebra (Dev Ed)
2 institutional credits (2 lecture hours)
Prerequisite: CPT score of 45-71 (EA) or PERT score of 100-113; Corequisite: SLS1501
This course satisfies the upper-level developmental math requirements in a modular format for the purpose of preparing students for credit mathematics courses and covers equations, inequalities, polynomials, graphing, rational expressions, and radical expressions, with real applications integrated throughout. Successful completion requires a course average of 75% or higher and a score of 70% or higher on the departmental final exam.

MAT1033C  Intermediate Algebra (AA)
4 credits (3 lecture hours, 2 lab hours)
Prerequisite: Non-Exempt students will need to provide appropriate placement scores or MAT0022 or MAT0056 (with a grade of C or higher)
This course prepares students for MAC1105. Topics include functions, linear equations and inequalities, exponents and radicals, products and factoring, algebraic fractions and quadratic equations. MAT1033C is a course that combines classwork with at least 50 minutes of in-class guided practice each week to help develop critical thinking and problem solving strategies. MAT1033C is NOT a Gordon Rule course and does NOT satisfy part of the math requirements for graduation. This course counts as elective credit only.

MAT1100  Quantitative Reasoning (AA)
3 credits (3 lecture hours)
Prerequisite: None for exempt students. Non-exempt students must show appropriate placement scores or successful completion of MAT0022 or MAT0056. This course builds on the foundation for understanding selected concepts taken from topics that include algebra, set theory, logic, geometry, probability, statistics, proportions, numeracy and graphing. Critical thinking skills, problem-solving strategies, financial mathematics, communicating mathematically, and appropriate use of technology will be incorporated throughout the course. Note: MAT1100 only satisfies the prerequisite requirements for MGF1106 and MGF1107 in general education. Students wishing to take MAC1105 must take MAT1033C or present sufficient placement scores.

MCB2010  Microbiology (AA)
3 credits (3 lecture hours)
Prerequisite: BSC2085 or BSC1010 (with a grade of C or higher); Corequisite: MCB2010L (with a grade of C or higher)
This course is a survey of the structure, physiology, genetics and control of microorganisms. The course includes an overview of the medical importance of bacteria, viruses, protozoa, and multicellular parasites with examination of host-microorganism interactions, including non-specific and specific immunity. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

MCB2010L  Microbiology Lab (AA)
1 credits (2 lab hours)
Corequisite: MCB2010
This is the laboratory to accompany MCB2010. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

MEA0230  Medical Terminology for Body Systems (PSAV)
95 clock hours
The course is designed to acquaint the student, who is preparing for a health-related vocation with the commonly used medical terminology. The components of medical terms are analyzed, terms are defined, and the use of a medical dictionary and related sources are emphasized. Application is made to procedures, diagnostic tests and conditions encountered in various health related fields.

MEA0234  Diseases, Disorders, and Treatment for Medical Assisting 1 (PSAV)
120 clock hours
This course provides a study of the cause, effect and treatment of infectious diseases, neoplasms, congenital diseases, urinary system, male and female reproductive systems, digestive system and their related treatments. It will focus on the skills necessary to assist in diagnostic and treatment procedures. See MEA0237 for Part 2.

MEA0237  Diseases, Disorders, and Treatment for Medical Assisting 2 (PSAV)
120 clock hours
This course provides the second part of the study of cause, effect and treatment of respiratory, circulatory, nervous, endocrine, musculoskeletal, integumentary systems, eye and ear diseases/treatments, pain management, medical emergencies with a holistic approach to diseases and their related treatments. It will focus on the skills necessary to assist in diagnostic and treatment procedures. See MEA0234 for Part 1.
MEAO242 Pharmacology for the Medical Assistant (PSAV)
95 clock hours
This course introduces the Medical Assisting student to medications, stressing sources, classifications, administration, dosages, contraindications and side effects of medications. Detailed attention is given to the correct administration of medications by various routes. It also provides students with knowledge to perform mathematical calculations necessary for the safe administration of medications.

MEAO254 Basic Medical Laboratory Techniques for the Medical Assistant (PSAV)
50 clock hours
This course focuses on laboratory studies and is designed specifically for the medical assisting student to include laboratory instruction and practice in specimen collection, microscopy, basic office bacteriology, hematology, and chemistry. Medical laboratory safety and quality control is an integral part of this course.

MEAO258 Radiology for the Medical Assistant (PSAV)
50 clock hours
This course provides basic principles of x-ray handling and processing, radiographic technique and radiation biology, including protection for self, patient and public. Upon successful completion of this course, the student can take the exam given by the Florida Department of Health for certification as a Basic X-ray Operator.

MEAO310 Introduction to Medical Office Procedures (PSAV)
90 clock hours
This course provides an overview of the medical assisting and related health professions, including the role and responsibilities of the medical office receptionists, public relations, and interpersonal relations of the healthcare team members. The primary focus placed on front office functions such as appointment scheduling, telephone techniques, communication, patient interaction, medical records, medical office automation, legal and ethical issues related to the medical assisting profession.

MEAO322 Advanced Medical Office Procedures (PSAV)
75 clock hours
This course is a continuation of the roles and responsibilities of the medical office assistant. The primary focus will be on advanced medical office administrative functions and work-based simulation activities.

MEAO334 Medical Insurance and Coding (PSAV)
75 clock hours
This course covers the purpose of medical insurance, the variety of plans, the payments of benefits, the abstracting of medical information from charts, the processing of claims and coding for insurance purposes. Practice in preparing and filing insurance forms is provided. The students learn to transcribe from verbal and written descriptions of diseases, injuries, and medical procedures into internationally standardized numerical designations for third party payers.

MEAO520 Phlebotomy for the Medical Assistant (PSAV)
75 clock hours
This course teaches the theory and skills required for the medical assistant to perform basic phlebotomy procedures in the physician's office or medical clinic.

MEAO540 Electrocardiography for the Medical Assistant (PSAV)
75 clock hours
This course provides an understanding of normal cardiac function, vital signs, relationship of ECG markings to normal function, responsibility to ensure that patient has been prepared mentally and physically, and that equipment is set up properly. A Medical Assistant must be able to recognize electrical interferences and make appropriate corrections or adjustments to obtain the most accurate electrocardiogram possible.

MEAO801 Externship in Medical Assisting (PSAV)
173 clock hours
This course provides student with hands-on experience in a physician's office or out-patient clinic, without payment, to demonstrate mastery of required competencies by the American Association of Medical Assistants. Externship should provide the Medical Assistant with ample experience in administrative and clinical skills. All program requirements must be completed successfully, prior to Externship.

MGF1106 Liberal Arts Mathematics (AA)
3 credits (3 lecture hours)
Prerequisites: MAT1033C or MAT1100 (with a grade of C or higher) or adequate placement scores
This course will give students some of the mathematical and computational skills essential for success in the Liberal Arts areas as well as in real-life situations. It will give the Liberal Arts students the essential skills needed in the areas of probability and statistics, sets, logic and geometry. (*)
MFG1107  Finite Mathematics (AA)
3 credits (3 lecture hours)
Prerequisite: MAT1033C or MAT1100 (with a grade of C or higher) or equivalent
This course will give students some of the mathematical and computational skills essential for success in the liberal arts area as well as in real-life situations. This course will include selected topics from Financial Mathematics, Linear and Exponential Growth, Numbers and Number Systems, History of Mathematics, Number Theory, Graph Theory and Voting Techniques. (*)

MKA1511  Advertising (AS)
3 credits (3 lecture hours)
This course has been planned for students wanting strong preparation in the field of advertising. Students learn the conceptual foundation which provides the necessary theoretical framework for understanding advertising, the planning stage required for successful advertising and the actual execution of advertising.

MKA2021  Personal Selling (AS)
3 credits (3 lecture hours)
This course provides the student a good understanding of the growing role of salespeople in the business world today.

MMC1000  Survey of Communication (AA)
3 credits (3 lecture hours)
This course is structured to enrich the students’ understanding of the American mass media system and its influence on social, political, economic and cultural agenda. Topics include media impact, ownership and control, organizational structure and a basic history of the media.

MMC1100  Basic News Writing for Mass Media (AA)
3 credits (3 lecture hours)
Prerequisite: ENC1101 or ENC1121 (with a grade of C or higher)
This course is designed primarily for beginners of news reporting, but seasoned reporters will also benefit from its contents. Topics include information gathering and processing, strategies of interviewing, basic and hard news lead composition, basic story structure.

MMC1949C  Mass Media Internship 1 (AA)
3 credits (1 lecture hour, 10 lab hours)
Prerequisite: MMC1100
This course is set up to allow the student to demonstrate in a practical, professional manner what he/she has been taught in the classroom. The hands-on experience will be gained on the job through an internship arrangement with a local establishment.

MMC2949C  Mass Media Internship 2 (AA)
3 credits (1 lecture hour, 10 lab hours)
Prerequisite: MMC1100
This course is a continuation of MMC1949C. It will allow the student to spend an additional semester for more on-the-job experience as an intern with a local establishment.

MNA2100  Human Relations in Business (AS)
3 credits (3 lecture hours)
This course helps formulate a set of objectives in human relations and develops techniques for accomplishing this objective. Among the topics studied are motivation, morale, productivity, organization, communications, work and incentives, leadership and the executive and their roles.

MNA2303  Introduction to Public Personnel Management (AS)
3 credits (3 lecture hours)
This course provides a study of the major issues facing the manager of public employees. These include selection and promotional process, performance appraisal systems, labor relations, employee rights and the future concerns of public sector employment.

MNA2345  Principles of Supervision (AS)
3 credits (3 lecture hours)
This course provides an overview of the first level of management dealing primarily with the management of people. The focus is on supervisory processes: examining functions of planning, organizing, staffing, directing, controlling and their relationships to daily responsibilities of the supervisor.
MSS0252  Massage Therapy 1 (PSAV)  200 clock hours
Prerequisite: HSC0003 (with a grade of C or higher)
This course provides, but is not limited to, the theory and practice of massage, practice and demonstration, hygiene, ethics, history, professionalism, massage law, medical terminology, human anatomy and physiology 1, Allied Modalities 1 (Seated/Chair, reflexology, paraffin bath), Pathology 1, Myology 1 (introduction to muscles, structure and their movement), HIV/AIDS. After completion of this course, students are eligible to register for MSS0262. This program prepares the student for employment as a licensed massage therapist. After completion of this program, students will be eligible to make applications to the Florida Department of Health Board of Massage Therapy and National Certifications Board for Therapeutic Massage and Bodywork licensure and certification examination.

MSS0262  Massage Therapy 2 (PSAV)  235 clock hours
Prerequisite: MSS0252
This course provides, but not limited to, the theory and practice of massage, practice and demonstration, human anatomy and physiology 2, Pathology 2, Myology 2, Allied Modalities 2 (Introductions to Neuromuscular therapy, Shiatsu, Sports massage, Body Rolling, Cranial Sacral) Theory and Practice of Hydrotherapy 1 (whirlpool foot bath, Vichy Shower spa, Hot/Cold packs), consultation, and Clinical. After completion of this course, students will be eligible to register for MSS0263, Massage Therapy 3. Liability insurance required. This program prepares the student for employment as a licensed massage therapist. After completion of the program, students will be eligible to make applications to take the Florida Department of Health Board of Massage Therapy and National Certification Board for Therapeutic Massage and Bodywork licensure and certification examination.

MSS0263  Massage Therapy 3 (PSAV)  237 clock hours
Prerequisite: MSS0262
This course provides, but not limited to, the theory and practice of massage, practice and demonstration, human anatomy and physiology 3, Pathology 3, Myology 3, Allied Modalities 3 (Introductions to Lymph Drainage, Thai, Reiki, Pre-natal, Infant), Theory and practice of Hydrotherapy, Florida Statutes/Rules, Business/Entrepreneurship and Medical Errors. Liability insurance and special fees are required. Upon completion of this course, students will have completed the 750-hour Massage Therapy program.

MTB1103  Business Mathematics (AS)  3 credits (3 lecture hours)
This course includes information and practice in regular, everyday business situations involving the following: bank and sales records, business percentages, finance charges, payrolls and taxes, financial statements, insurance, stocks and bonds, compound interest and present value, and annuities.

MTG2206  College Geometry (AA)  3 credits (3 lecture hours)
Prerequisite: MAT1033C (with a grade of C or higher) or adequate placement scores
Emphasizes Euclidean plane geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve line segments, angles, triangles and polygons, parallel and perpendicular lines, slope of lines, circles, and similarity.

MUH2018  History and Appreciation of Jazz (AA)  3 credits (3 lecture hours)
Jazz is studied from its inception around 1900 to the present. All forms and styles of jazz, along with important exponents of each style, will be covered. Includes principles in how to listen to jazz. Writing assignments are included. (*)

MUL1010  Music Appreciation (AA)  3 credits (3 lecture hours)
This course provides a survey of historical periods of Western art music including musical styles, musical elements, and composers and their works. Basic musical concepts will be covered. Students will develop intelligent listening skills by studying and listening to representative musical compositions. Writing assignments are included. (*)

MUN1120-R  Concert Band (AA)  1 credits (2 lab hours)
This course provides open audition to all Palm Beach State students who play an instrument, regardless of major. Students develop their instrumental and musical skills through the study and performance of a variety of music for the concert band. Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.

MUN1310-R  Concert Chorus (AA)  1 credits (3 lab hours)
This course provides open membership to all Palm Beach State students interested in singing choral music, regardless of major. No audition is required. Students develop their vocal and musical skills through the study and performance of a varied repertoire of choral music. Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.
**MUN1430-R**  
**Brass Ensemble (AA)**  
1 credits (2 lab hours)  
This course provides membership by audition to all Palm Beach State students who play a brass instrument, regardless of major. Students develop their instrumental and musical skills through the study and performance of original and transcribed music for the small brass ensemble. Music from the Renaissance through the twentieth century will be studied and performed. This course is repeatable for credit.

**MUN1440-R**  
**Percussion Ensemble (AA)**  
1 credits (2 lab hours)  
This course provides membership by audition to all Palm Beach State students who play a percussion instrument, regardless of major. Students develop their instrumental and musical skills through the study and performance of original and transcribed music for a percussion ensemble. Music from a variety of musical styles will be studied and performed. This course is repeatable for credit.

**MUN1492-R**  
**Guitar Ensemble (AA)**  
1 credits (2 lab hours)  
This course provides membership by audition to all Palm Beach State students who play acoustic guitar, regardless of major. Students develop their instrumental and musical skills through the study and performance of original and transcribed music for a guitar ensemble from duets to octets. Music is taken from classical and jazz literature. This course is repeatable for credit.

**MUN1710-A**  
**12 O'Clock Jazz Band (R) (AA)**  
1 credits (3 lab hours)  
This course provides membership by audition to all qualified instrumentalists, regardless of major. Students develop their instrumental and musical skills through the study and performance of standard repertoire for the modern jazz ensemble (in the form of a 17-piece big band). Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.

**MUN1710-C**  
**Jazz Combo (R) (AA)**  
1 credits (3 lab hours)  
**Prerequisite:** Audition required  
This course provides membership by audition to all qualified instrumentalists, regardless of major. Students develop their instrumental and musical skills through the study and performance of standard repertoire for the modern jazz combo (usually consisting of a pianist, drummer, bass player, guitarist, two to three horns, and sometimes a vocalist). Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.

**MUN1710-D**  
**Tuesday Nite Jazz Band (R) (AA)**  
1 credits (2 lab hours)  
This course provides membership by audition to all qualified advanced instrumentalists, regardless of major. Students develop their instrumental and musical skills through the study and performance of advanced repertoire for the modern jazz ensemble (in the form of a 17-piece big band). Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.

**MUN1710-E**  
**Jazz Guitar Ensemble (R) (AA)**  
1 credits (3 lab hours)  
This course provides membership by audition to all PBCC students who play jazz guitar, regardless of major. Students develop their instrumental and musical skills through the study and performance of standard repertoire for the jazz guitar ensemble. Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.

**MUN1720-R**  
**Troubadours (AA)**  
1 credits (3 lab hours)  
This course provides membership selectively by audition to all PBCC students, regardless of major. Students develop their vocal and musical skills through the study and performance of standard repertoire for the vocal jazz ensemble (consisting of 8-12 singers and a rhythm section). Members are selected by annual audition in August, and membership remains fixed through Fall and Spring semesters. Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.

**MUN2710-D**  
**Tuesday Nite Jazz Band (R) (AA)**  
1 credits (2 lab hours)  
**Prerequisites:** MUN1710 D (two semesters) and audition required.  
This course provides membership by audition to all qualified advanced instrumentalists, regardless of major. Students develop their instrumental and musical skills through the study and performance of advanced repertoire for the modern jazz ensemble (in the form of a 17-piece big band). Public performances (outside of class time) are a required part of this course. This course is repeatable for credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS1621C</td>
<td>Acoustics and Psychoacoustics (AS)</td>
<td>3</td>
<td>2 lab</td>
<td>An introduction to the qualitative principles of acoustics, room design, musical instruments and acoustic environments; and to the elementary principles of sound perception. Students will undergo an evaluation of their hearing. In addition, they will undergo training of their critical listening skills and analytical abilities to engage in effective audio manipulation.</td>
</tr>
<tr>
<td>MUT1001</td>
<td>Fundamentals of Music (AA)</td>
<td>3</td>
<td>3</td>
<td>This course provides the basic foundations of music including scales, intervals, key signatures, major and minor keys, triads, and rhythm. The student will learn to read and write music using basic notation. (*)</td>
</tr>
<tr>
<td>MUT1111</td>
<td>Music Theory 1 (AA)</td>
<td>3</td>
<td>3</td>
<td>Prerequisite: Students will be required to take and pass a music theory skill assessment test before being allowed to continue with this course. The test will be administered on or before the first day of classes. Students who do not pass the exam will be dropped from this course during the add/drop period of registration and encouraged to enroll in MUT1001 Fundamentals of Music; Corequisite: MUT1241L This course provides a study on music notation and harmony including major and minor scales, key signatures, diatonic seventh chords, and rhythm. Students will learn to write four-part music, including primary chords in first inversion and cadences. This is a university-parallel course for students majoring in music.</td>
</tr>
<tr>
<td>MUT1112</td>
<td>Music Theory 2 (AA)</td>
<td>3</td>
<td>3</td>
<td>Prerequisite: MUT1111 (with a grade of C or higher) or equivalent; Corequisite: MUT1242L Continuation of MUT1111. This course provides a new material which includes secondary chords, chord inversions, proper usage of non-chord tones, and diatonic seventh chords. The student will learn to write music using figured bass and to harmonize melodies using the chords and harmonic practices studied.</td>
</tr>
<tr>
<td>MUT1241L</td>
<td>Ear Training and Sight Singing 1 (AA)</td>
<td>1</td>
<td>2</td>
<td>Prerequisite: Students will be required to take and pass a music theory skill assessment test before being allowed to continue with this course. The test will be administered on or before the first day of classes. Students who do not pass the exam will be dropped from this course during the add/drop period of registration and encouraged to enroll in MUT1001 Fundamentals of Music; Corequisites: MUT1111 or equivalent and either MVK1111 A, MVK1311 R, or equivalent This course provides the student knowledge to sing and play notated music (both pitch and rhythm) as well as to notate music that the student hears (aural dictation). Melodies using the major and minor scales and intervals from the tonic and dominant triad will be studied. This is a university parallel course for students who plan to major in music.</td>
</tr>
<tr>
<td>MUT1242L</td>
<td>Ear Training and Sight Singing 2 (AA)</td>
<td>1</td>
<td>2</td>
<td>Prerequisite: MUT1241L (with a grade of C or higher); Corequisite: MUT1112 This course provides new elements for the alto and tenor clefs, the subdivided beat in simple and compound meters, diatonic seventh chords, and diatonic chord progressions involving I (i), IV (iv), V, ii6 (ii 6) and vi (VI). Students will learn to read (sing) and write (by aural dictation) pitch and rhythm together.</td>
</tr>
<tr>
<td>MUT2116</td>
<td>Music Theory 3 (AA)</td>
<td>3</td>
<td>3</td>
<td>Prerequisite: MUT1112 (with a grade of C or higher) or equivalent; Corequisite: MUT2246L This course introduces the use of chromatic harmony with new elements including Secondary Dominant Chords and Secondary Diminished Seventh Chords, Augmented Sixth Chords, Neapolitan Sixth Chords, Borrowed Chords, and Modulation.</td>
</tr>
<tr>
<td>MUT2117</td>
<td>Music Theory 4 (AA)</td>
<td>3</td>
<td>3</td>
<td>Prerequisite: MUT2116 (with a grade of C or higher) or equivalent; Corequisite: MUT2247L This course provides new elements including extended chords (9th, 11th, 13th) and modal harmony. Post-common practice harmony is covered including twelve-tone serialism and other forms of non-functional harmony. Students will study musical forms and write a musical composition utilizing these forms.</td>
</tr>
<tr>
<td>MUT2246L</td>
<td>Ear Training and Sight Singing 3 (AA)</td>
<td>1</td>
<td>2</td>
<td>Prerequisite: MUT1242L (with a grade of C or higher); Corequisite: MUT2116 This course provides pitch sight singing and dictation focuses on chromatic melodies, including secondary-dominant harmonies and chromatic non-chord tones. Students will learn to perform (by sight) and write (by aural dictation) rhythms including syncopation, triplets, and duplets. Cadences using chromatic chords will also be studied.</td>
</tr>
</tbody>
</table>
### MUT2247L  Ear Training and Sight Singing 4 (AA)
1 credits (2 lab hours)
Prerequisite: MUT2246L (with a grade of C or higher); Corequisite: MUT2117
This course provides students knowledge to perform (sight sing) and notate (aural dictation) rhythms using mixed meters, the hemiola, and further subdivision of the beat. Twentieth century melodies and advanced chromaticism will also be studied.

### MUT2641L  Instrumental Improvisation (AA)
1 credits (3 lab hours)
Prerequisite: MUT1111 or with special permission
This course provides a laboratory session involving application of the many concepts associated with improvisation. Correct chord-scale relationships, realization of chord progressions, analysis of song forms, and performance of standard jazz repertoire are the topics that will be covered in this class. Students will apply these concepts through individual performance and improvisation.

### MVB1311-R  Music-Applied-Private Instruction Trumpet Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

### MVB1312-R  Music-Applied-Private Instruction Horn Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

### MVB1313-R  Music-Applied-Private Trombone Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

### MVB1314-R  Music-Applied-Private Instruction Baritone Horn Prn F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

### MVB1315-R  Music-Applied-Private Instruction Tuba Sect F
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

### MVB2321-R  Music-Applied-Private Instruction Trumpet Sect S (AA)
2 credits (1 lab hour)
Prerequisite: MVB1311 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

### MVB2323-R  Music-Applied-Private Instruction Trombone Sect S (AA)
2 credits (1 lab hour)
Prerequisite: MVB1313 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.
MVB2324-R  Music-Applied-Private Instruction Baritone Horn Sect S (AA)
2 credits (2 lab hours)
Prerequisite: MVB1314 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVB2325-R  Music-Applied-Private Instruction Tuba Sect S
2 credits (2 lab hours)
Prerequisite: MVB1315 R (two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ1210-R  Applied Instruction Jazz Piano Freshman (AA)
1.00 credits (0.00 lecture hour, 0 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition
This course provides one private lesson per week on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ1213-R  Applied Instruction Jazz Guitar Freshman (AA)
1.00 credits (0.00 lecture hour, 0 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition
This course provides one private lesson per week on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ1313-R  Music-Applied-Private Instruction Jazz Guitar Sect F
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L, MUN1710 E
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ1314-R  Music-Applied-Private Instruction Jazz Piano Prn F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and either MUN1710 C, MUN1710 A, MUN1310 R or MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ1317-R  Music-Applied-Private Instruction Bass Guitar Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and either MUN1710 C, MUN1710 A, MUN1710 E or MUN1310 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ2223-R  Applied Instruction Jazz Guitar Sophomore (AA)
1.00 credits (0.00 lecture hour, 0 lab hour)
Prerequisite: MVJ2323R
This course provides one private lesson per week on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVJ2323-R  Music-Applied-Private Instruction Jazz Guitar Sect S (AA)
2 credits (1 lab hour)
Prerequisite: MVJ1313 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1710 E
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.
MVJ2324-R  Music-Applied-Private Instruction Bass Guitar Sect S (AA)  
2 credits (1 lab hour)  
Prerequisite: MVJ1317 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1710 E  
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVK1111-A  Class Instruction - Piano 1 (AA)  
1 credits (2 lab hours)  
This course provides class lessons for beginning piano students. Instruction includes elementary technical exercises for developing keyboard facility and music reading. Playing positions, fingerings, note identification, and reading beginning level rhythms are covered. Not repeatable for grade.

MVK1111-B  Class Instruction - Piano 2 (AA)  
1 credits (2 lab hours)  
Prerequisite: MVK1111 A or equivalent  
This course provides with attention to beginning level keyboard literature and developing skills such as music reading, technique, and modal and diatonic harmonization. Reading rhythms and ensemble playing are included. Not repeatable for credit.

MVK1211-R  Music-Applied-Private Instruction Piano Section F (AA)  
1.00 credits (0.00 lecture hour, 0 lab hour)  
Prerequisite: Demonstrate acceptable skill level through audition  
This course provides one private lesson per week on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVK1311-R  Music-Applied-Private Instruction Piano Sect F (AA)  
2 credits (1 lab hour)  
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and either MUN1310 R or MUN1120 R  
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVK2121L  Class Instruction - Piano 3 (AA)  
1 credits (2 lab hours)  
Prerequisite: MVK1111 B or equivalent  
This course is a continuation of MVK1111 B, where keyboard skills are further developed. Attention is given to sight-reading, technique, harmonizing, improvising and transposing of the intermediate levels. Students will learn both solo and ensemble intermediate level repertoire. Not repeatable for credit.

MVK2122L  Class Instruction - Piano 4 (AA)  
1 credits (2 lab hours)  
Prerequisite: MVK2121L or equivalent  
This course provides special consideration to students who are preparing for the Upper Division Piano Proficiency Examination. Rhythmic reading in various meters, all major and minor scales and arpeggios, and harmonization and chord progressions will be included. The student will demonstrate intermediate to early advanced level solo and ensemble repertoire. Not repeatable for credit.

MVK2321-R  Music-Applied-Private Instruction Piano-Sophomore (AA)  
2 credits (1 lab hour)  
Prerequisite: MVK1311 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L and either MUN1310 R or MUN1120 R  
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVK2324-R  Music-Applied-Private Instruction Jazz Piano Sec S (AA)  
2 credits (1 lab hour)  
Prerequisite: MVJ1314 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L and either MUN1710 C, MUN1710 A or MUN1710 D  
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.
MVP1311-R  
**Music-Applied-Private Instruction Percussion Sec F (AA)**
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVP2321-R  
**Music-Applied-Private Instruction Percussion Sec S (AA)**
2 credits (1 lab hour)
Prerequisite: MVP1311 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVS1116  
**Class Instruction Guitar 1 (AA)**
1 credits (2 lab hours)
This course provides class lessons for beginning guitar students. Instruction includes elementary technical exercises, fundamental chords, chord progression, simple accompaniments, and music reading.

MVS1316-R  
**Music-Applied-Private Instruction Guitar Sect F (AA)**
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and either MUN1492 R (preferred), MUN1710 E or MUN1310 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVS2326-R  
**Music-Applied-Private Instruction Guitar Sect S (AA)**
2 credits (1 lab hour)
Prerequisite: MVS1316 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L and either MUN1492 R (preferred), MUN1710 E or MUN1310 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVV1111-A  
**Class Instruction Voice 1 (AA)**
1 credits (2 lab hours)
This course provides small class lessons for the beginning singer or one who has had little formal training. It includes instruction in proper breathing for singing, tone production and resonance, range expansion and register blending, diction and articulation, music learning, and interpretation and performance skills. Students will sing assigned songs and exercises in class both individually and in groups. Not repeatable for credit.

MVV1211-R  
**Applied Voice Sect F (AA)**
1 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition
This course provides one private voice lesson per week. The student will learn and perform assigned technical exercises and solo repertoire. Repertoire will include folk songs, musical theatre, and art songs (including foreign languages). Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVV1311-R  
**Music-Applied-Private Instruction Voice Sect F (AA)**
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1310R
This course provides one private voice lesson per week (50 minutes). The student will learn and perform assigned technical exercises and solo repertoire. Repertoire will include folk songs, musical theatre, and art songs (including foreign languages). This course may be repeated for credit.

MVV2221-R  
**Applied Voice Sect S (AA)**
1.00 credits (0.00 lecture hour, 0 lab hour)
Prerequisite: MVV2321R
This course provides one private voice lesson per week. The student will learn and perform assigned technical exercises and solo repertoire. Repertoire will include folk songs, musical theatre, and art songs (including foreign languages). Instruction is directed to individual problems and needs. This course may be repeated for credit.
MVV2321-R  Music-Applied-Private Instruction Voice Sect S (AA)
2 credits (1 lab hour)
Prerequisite: MVV1311 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1310 R
This course provides one private voice lesson per week (50 minutes). The student will learn and perform assigned technical exercises and solo repertoire. Repertoire will include folk songs, musical theatre, and art songs (including foreign languages). This course may be repeated for credit.

MVW1311-R  Music-Applied-Private Instruction Flute Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVW1312-R  Music-Applied-Private Instruction Oboe Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVW1313-R  Music-Applied-Private Instruction Clarinet Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVW1315-R  Music-Applied-Private Instruction Saxophone Sect F (AA)
2 credits (1 lab hour)
Prerequisite: Demonstrate acceptable skill level through audition; Corequisites: MUS0010L and MUN1120R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

MVW2323-R  Music-Applied-Private Instruction Clarinet Sect S (AA)
2 credits (1 lab hour)
Prerequisite: MVW1313 R (Two semesters with a grade of B or higher); Corequisites: MUS0010L, MUN1120 R
This course provides one private lesson per week (50 minutes) on a student's primary or secondary instrument. The student will learn and perform assigned technical exercises and solo and ensemble repertoire. Instruction is directed to individual problems and needs. This course may be repeated for credit.

NUR1022L  Introduction to Concepts for Nursing Practice 1 Skills (AS)
1 credits (3 lab hours)
Corequisites: BSC2086/2086L, MCB2010/2010L, NUR1023, NUR1141 (with a grade of C or higher), NUR1023L
Provides opportunities for nursing students to develop basic client care skills. Students gain competency by practicing skills in a supportive and supervised environment.

NUR1023  Introduction to Concepts for Nursing Practice 1 (AS)
5 credits (5 lecture hours)
Corequisites: BSC2086/2086L, MCB2010/2010L, NUR1141 (with a grade of C or higher), NUR1022L, NUR1023L
Introduces the concepts for nursing practice. Focus is on assessment and wellness across the lifespan, as well as on roles of the professional nurse. Emphasis is on concepts such as development, culture, nutrition, elimination, mobility, health promotion, professionalism, evidence, safety, ethics, patient education and technology/informatics. At the completion of this course the student should be able to think conceptually and provide safe nursing care through integration of the introduced concepts.

NUR1023L  Introduction to Concepts for Nursing Practice 1 Clinical (AS)
3 credits (9 clinical hours)
Corequisites: BSC2086/2086L, MCB2010/2010L, NUR1023, NUR1141 (with a grade of C or higher), NUR1022L
Provides opportunities for students to integrate classroom learning, skills lab practice and client care incorporating three types of apprenticeships: knowledge, practice and ethical comportment. Care will be provided to selected clients across the lifespan in a variety of settings. Focus is on assessment and wellness.
NUR1024  Critical Thinking in Nursing (AS)
3 credits (3 lecture hours)
Prerequisites: BSC2085/2085L, DEP2004 (with a grade of C or higher)
This course is designed to assist the pre nursing or nursing student to develop learning strategies necessary to attain success in the nursing program. Learning strategies will be presented in-context (assignments will be based on current nursing content) for easy transferability and application of nursing knowledge. Focus is given to developing caring attitudes of nursing students applying critical thinking strategies specific to problem solving related to human response patterns.

NUR1141  Introduction to Pharmacotherapeutics (AS)
2 credits (2 lecture hours)
Corequisites: BSC2085/2085L, MCB2010/2010L (with a grade of C or higher)
This course introduces the beginning level nursing student to the concept of pharmacotherapeutics. At the completion of this course the student will have an understanding of the major drug classifications as they relate to the nursing process and the five concepts of human functioning.

NUR1213  Concepts for Nursing Practice 2 (AS)
6 credits (6 lecture hours)
Prerequisites: NUR1023, NUR1141 (with a grade of C or higher), NUR1022L, NUR1023L; Corequisites: STA2023 (with a grade of C or higher), NUR1213L, NUR1214L
Develops the concepts for nursing practice. Emphasis is on concepts such as adherence, fluid and electrolytes, perfusion, glucose regulation, cellular regulation, reproduction, stress/coping, anxiety, mood and affect, infection, clinical judgment, communication and health care organizations. Concepts are presented from a lifespan and health-continuum viewpoint. At the completion of the course the student should be able to identify situations that place persons at risk for alterations, recognize common alterations, and plan interventions for promoting and restoring health across patient populations in a variety of settings.

NUR1213L  Concepts for Nursing Practice 2 Clinical (AS)
4 credits (12 clinical hours)
Prerequisites: NUR1023, NUR1141 (with a grade of C or higher), NUR1022L, NUR1023L; Corequisites: STA2023, NUR1213 (with a grade of C or higher), NUR1214L
Provides opportunities for students to integrate classroom learning, skills lab practice and client care incorporating three types of apprenticeships: knowledge, practice and ethical comportment. Care will be provided to selected clients across the lifespan in a variety of settings. Focus is on assessment and wellness.

NUR1214L  Nursing 2 Skills Lab (AS)
1 credits (3 lab hours)
Prerequisites: NUR1023, NUR1141 (with a grade of C or higher), NUR1022L, NUR1023L; Corequisites: HUN1201 (or STA2023), NUR1213 (with a grade of C or higher), NUR1214L
Students will achieve complex client care skills that are utilized by the nurse to implement the nursing process. Students gain competency by practicing skills in a supportive and supervised environment in the college campus lab. Includes one hr/week on the development of problem-solving skills with a wellness focus.

NUR2000L  Introduction to Professional Nursing (AS)
1 credits (3 lecture hours)
Prerequisite: LPN; transitional students (Nursing AS - Program Code 2301)
This course must be taken prior to entering the nursing program. This course is designed as a transitional course for the licensed LPN or Paramedic student who is becoming a professional nurse. This course encompasses the area of role definition; providing/managing care of individuals and groups utilizing goal attainment to reach an optimum state of health and wellness.

NUR2261  Nursing 3 (AS)
6 credits (6 lecture hours)
Prerequisites: NUR1213 (with a grade of C or higher), NUR1213L, NUR1214L; Corequisites: PSY2012 (with a grade of C or higher), NUR2261L
Using the concepts of oxygenation, cellular integrity, regulation, perception/sensory/cognition and mobility, the theories of holism and goal attainment will be differentiated across the lifespan related to childbearing families in their human responses to health challenges. The focus is on the application and analysis of these concepts to assist individuals to achieve their goals.

NUR2261L  Nursing 3 Clinical (AS)
4 credits (12 clinical hours)
Prerequisites: NUR1141, NUR1213 (with a grade of C or higher), NUR1213L, NUR1214L; Corequisites: NUR2261, PSY2012 (with a grade of C or higher)
Using the concepts of oxygenation, cellular integrity, regulation, perception/sensory/cognition and mobility, the theories of holism and goal attainment will be analyzed and applied to the nursing care of clients across the lifespan. Clinicals will occur with childbearing families, pediatric, and adult patients in a variety of settings within the community, including acute care facilities.
NUR2712C  Nursing 4 Clinical (AS)
6 credits (3 lecture hours, 9 lab hours)
Prerequisites: NUR2261, PSY2012, (with a grade of C or higher), NUR2261L; Corequisite: NUR2943L
Using the theories of holism and goal attainment, the concepts of oxygenation, cellular integrity, regulation, perception, perception/sensory/ cognition and mobility will be applied across the lifespan in the synthesis and evaluation of complex nursing situations in both high acuity care and community settings. Clinical environments will be explored with high acuity settings.

NUR2943L  Nursing 4 Clinical Preceptorship (AS)
4 credits (12 lab hours)
Prerequisites: NUR2261, PSY2012 (with a grade of C or higher), NUR2261L; Corequisites: NUR2712C (with a grade of C or higher)
This course builds on the knowledge and skills obtained in the nursing curriculum and integrates the curriculum concepts in varied/diverse practice settings. Synthesis of management, organizational culture and interpersonal relationship principles are applied with developing independence in the practice of nursing. This course facilitates the students’ evaluation of principles and practices of the profession of nursing while assisting in the role transition to a practicing registered nurse. Clinical environments could be, but are not limited to: medical/surgical, mental health, pediatric, maternity, critical care, home, nursing home and extended or ambulatory care units.

NUR3069  Advance Health Assessment (BS)
3 credits (3 lecture hours)
Prerequisite: Acceptance into the RN-BSN program; Corequisite: NUR3825 (with a grade of C or higher)
This course is designed to develop the student's knowledge and skills in obtaining and recording a systematic, comprehensive health history and physical examination of the client across the life span. Focus is placed on the synthesis of nursing knowledge as it applies to the physiological, psychological, socio-cultural, and spiritual components of clients obtained in the comprehensive health assessment.

NUR3119  Heritage of Nursing Concepts/Theories (BS)
3 credits (3 lecture hours)
Prerequisite: Acceptance into the RN-BSN program; Corequisites: NUR3069, NUR3825 (with a grade of C or higher)
The focus of this course is on the philosophical and theoretical foundations of nursing as a profession. The student is introduced to the history of nursing through defining concepts and the development of nursing theories across the last century. Teaching strategies are designated to enhance students' abilities and skills to bridge the theory-practice gap and expand their knowledge regarding theoretical framework in nursing profession through analytical and applied learning activities.

NUR3125  Advanced Pathophysiology for Nursing (BS)
3 credits (3 lecture hours)
Prerequisite: Acceptance into the RN-BSN program; Corequisite: NUR3119 (with a grade of C or higher)
This course teaches the advanced study of pathophysiology and symptomatology across the life span. The focus is on alterations in physiologic functions and manifestation of disease. Signs, symptoms and diagnostic findings of common alterations are presented. Students will also gain an understanding of nursing interventions to promote adaptation.

NUR3164  Nursing Research and Informatics (BS)
3 credits (3 lecture hours)
Prerequisites: NUR3069, NUR3119, NUR3125, NUR3825 (with a grade of C or higher); Corequisites: NUR3678, NUR4636C, NUR4827C (with a grade of C or higher)
This course explores the concepts of research and healthcare informatics trends. Students learn the relationship between nursing research and utilization of evidence-based practice. Students will also understand the importance of integration of research findings related to healthcare quality within the context of nursing practice.

NUR3678  Nursing Care for the Geriatric Patient and Other Vulnerable Populations (BS)
3 credits (3 lecture hours)
Prerequisites: NUR3069, NUR3119, NUR3825 (with a grade of C or higher); Corequisites: NUR3125, NUR4827C (with a grade of C or higher)
This course focuses on the development of outcome-based interdisciplinary nursing care to promote wellness among the aging population. This course also emphasizes the significance of vulnerable populations and the leadership role of nursing in their care and advocacy. Emphasis is placed on the challenges faced by these groups and the need for transformational leadership in the healthcare arena.

NUR3825  Transitional Nursing Role Perspectives (BS)
3 credits (3 lecture hours)
Prerequisite: Acceptance into the RN-BSN program; Corequisite: NUR3069 (with a grade of C or higher)
This course introduces the role expectation for the baccalaureate nurse. The integration of professional standards and ethical principles will be explored. The development of management roles as it relates to critical thinking in the delivery of health care will be discussed.
NUR4107  Nursing Perspectives/Global Trends (BS)
3 credits (3 lecture hours)
Prerequisites: NUR3164, NUR3678, NUR4636C, NUR4827C (with a grade of C or higher); Corequisites: NUR4655, NUR4847, NUR4945 (with a grade of C or higher)
This course is focused on the major challenges of health care on a global level. The role of the nursing profession within the global community is emphasized, centered on meeting Millennium Development Goals. Using the concepts of Transformational Leadership, this course assists the learner in recognizing and addressing the major challenges facing global health care.

NUR4636C  Community Health Nursing (BS)
3 credits (2 lecture hours)
Prerequisites: NUR3069, NUR3119, NUR3125, NUR3825 (with a grade of C or higher); Corequisites: NUR3164, NUR3678, NUR4827C (with a grade of C or higher)
This course examines the role of the nurse in dealing with family crisis, gerontological problems, child-bearing, child raising families, and medical-surgical conditions within the context of the community. Assessment of the community and its healthcare delivery system epidemiology is studied within the social structure of families and communities.

NUR4655  Nursing in a Multicultural Society (BS)
3 credits (3 lecture hours)
Prerequisites: NUR3069, NUR3119, NUR3125, NUR3678, NUR3825, NUR4636C, NUR4827C (with a grade of C or higher); Corequisite: NUR4847 (with a grade of C or higher)
The course presents concepts in trans-cultural nursing focusing on the nurse leader developing cultural competency while learning more about the health/illness beliefs of patients. The course is developed to provide the cultural foundation of existing models related to trans-cultural nursing and allows the nurse leader to identify key components impacting the cultural diversity of identified sub-cultures. Health care delivery within the United States is discussed with a focus on health disparities among vulnerable cultures.

NUR4827C  Leadership and Management in Professional Nursing (BS)
3 credits (2 lecture hours)
Prerequisites: NUR3069, NUR3119, NUR3825 (with a grade of C or higher); Corequisites: NUR3125, NUR3678 (with a grade of C or higher)
Leadership and management theories will be explored incorporating critical thinking, conflict management, decision-making, and problem-solving skills. A primary focus of this course is to enhance professional nurses' understanding of the concepts and skills needed to be effective leaders in today's health care arena.

NUR4847  Clinical Decision Making/Critical Thinking (BS)
3 credits (3 lecture hours)
Prerequisites: NUR3069, NUR3119, NUR3125, NUR3678, NUR3825, NUR4636C, NUR4827C (with a grade of C or higher); Corequisites: NUR3164, NUR4636C (with a grade of C or higher)
This course provides a conceptual understanding of the logical and critical thought processes required of the professional nurse. The reasoning process as an essential link between information gathering and decision making is presented. The aim of this course is to develop the analytical abilities of the student.

NUR4945  Capstone Experience: Nursing (BS)
3 credits (3 lecture hours)
Prerequisite: This course should be taken during the last semester of the program, and requires Bachelor's department approval
This course allows the students to integrate, synthesize knowledge and skills from other courses completed in the BSN program. The course is designed to enhance students' awareness of the main challenges that face the healthcare system, with emphasis on their professional roles and potentials in improving the quality of care using research and leadership skills.

OCE1001  Introduction to Oceanography (AA)
3 credits (3 lecture hours)
This course covers the fundamentals of chemical, biological, physical, and geological characteristics of the world ocean system. Special emphasis is placed on Florida and its unique relationship with its surrounding marine environment. (*)

OCE1001L  Introduction to Oceanography Lab (AA)
1 credits (2 lab hours)
Corequisite: OCE1001 A hands-on laboratory experience in physical, chemical, biological and geographical oceanography. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)
OPT1110  Physical and Geometric Optics (AS)  
3 credits (3 lecture hours)  
Prerequisite: Acceptance into the Ophthalmic Medical Technology AS degree program  
This course introduces the student to the basic properties of light. The principles of physical, geometric optics, refraction, and reflection are explained using diagrams and real-life examples. The optical properties of prisms, lenses, mirrors and the wave nature of light are explored. An understanding of human refractive errors and corrective optical lenses illustrates application of these principles.

OPT1150  Ophthalmic Lenses (AS)  
3 credits (3 lecture hours)  
Prerequisite: Acceptance into the Ophthalmic Medical Technology AS degree program  
This course presents principles of the lenses that are used in the visual correction of the human eye. Components of the refractive power of a lens, sphere, cylinder and axis, and reading addition are discussed. The application of prisms, lens designs, and materials in the dispensing of spectacle correction is covered with specific applications to patient care.

OPT1210  Anatomy and Physiology of the Eye (AS)  
3 credits (3 lecture hours)  
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, BSC2086 (with a grade of C or higher)  
This course explores, in detail, the anatomy of the human eye. Students will study the eye's embryology and development, structures of the orbit, extraocular muscles and external structures surrounding the eye (adnexa). The anterior segment, refractive structures, and posterior segment including their vascular, lymphatic, and nerve supply are discussed in detail. Particular focus will be on the visual pathway.

OPT1330  Introduction to Vision Care 1 (AS)  
2 credits (2 lecture hours)  
Prerequisite: Acceptance into the Ophthalmic Medical Technology AS degree program  
This course introduces the student to the field of ophthalmic medical assisting. Review of basic ophthalmic skills necessary in evaluating patients include history taking, visual acuity assessment, ocular motility and neuro-ophthalmic assessment. Ophthalmic terminology, use of electronic medical records for documenting findings, and developing a clear understanding of the psychology of patient interaction are presented.

OPT2090  Introduction to Vision Care 2 (AS)  
2 credits (2 lecture hours)  
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT1330 (with a grade of C or higher)  
This course introduces the student to the Palm Beach State College Vision Care Clinic. Students will be able to apply the technical skills that were learned in their previous course work. Emphasis will be on developing the skill set required for the electronic health record (EHR) chart documentation, communication, and professionalism.

OPT2222  Ocular Pathology and Pharmacology 1 (AS)  
3 credits (3 lecture hours)  
Prerequisite: Acceptance into the Ophthalmic Medical Technology AS degree program  
This course introduces the student to the diagnosis and pathology of ocular disease and how it relates to the patient's overall health. Attention is given to specific ocular disorders that are the most commonly encountered in an ophthalmic practice. Commonly used diagnostic and therapeutic drugs for ocular examination and the treatment of eye disease will be presented.

OPT2223  Ocular Pathology and Pharmacology 2 (AS)  
3 credits (3 lecture hours)  
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT2222 (with a grade of C or higher)  
This is the second, of a two-part course, on diseases that affect the eyes and visual system. The advanced pathology of primary ocular diseases and the effects of systemic disease on the eyes will be explored. Particular attention will be given to a disease and the pharmaceutical agents used in its diagnosis and treatment.

OPT2350  Advanced Ophthalmic Procedures 1 (AS)  
3 credits (3 lecture hours)  
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT1330 (with a grade of C or higher)  
This course introduces the student to the terminology and theory of advanced diagnostic testing in the ophthalmic practice. Students will develop competency in the advanced clinical diagnostic techniques learned in coursework which includes tonometry, external testing for dry eye, slit lamp examination, confrontation and formal visual field testing, and external ocular photography.
OPT2351  Advanced Ophthalmic Procedures 2 (AS)
3 credits (3 lecture hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT2350 (with a grade of C or higher)
This course is a continuation of OPT2350. The student will develop competencies in advanced diagnostic testing, corneal topography, anterior segment photography, fundus photography, retinal imaging, B-scan and A-scan ultrasonography with IOL calculations. Introduction to surgical assisting of minor-in-office procedures, including maintaining sterile technique, and the preparation of instrumentation, will provide the foundation for further advancement in clinical responsibilities.

OPT2375  Refractometry (AS)
2 credits (2 lecture hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT1330 (with a grade of C or higher); Corequisite: OPT2375L (with a grade of C or higher)
This course covers the important technical components of measuring visual correction. Assessment of uncorrected visual acuity, measuring of existing corrective lenses, objective measurement of refractive error including sphere, cylinder, astigmatism axis, and the refinement of the vision correction will be emphasized.

OPT2375L  Refractometry Lab (AS)
2 credits (4 lab hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT1330 (with a grade of C or higher); Corequisite: OPT2375 (with a grade of C or higher)
This laboratory course focuses on the technique of measuring visual correction utilizing the knowledge gained in OPT2375. Assessment of uncorrected visual acuity, measuring of existing corrective lenses, objective measurement of refractive error including sphere, cylinder, astigmatism axis using the retinoscope, will be combined to refine the vision correction.

OPT2500  Contact Lens Theory (AS)
2 credits (2 lecture hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT1330 (with a grade of C or higher)
This course explores contact lenses. Relevant corneal anatomy, physiology, shape, and refractive properties of the cornea are reviewed. Analysis of contact lens materials, rigid gas permeable, soft, and silicone hydrogels and the techniques of handling, fitting, and care are demonstrated. Techniques for determining the best fit, sharpest visual acuity, and maximum comfort for the patient will be discussed.

OPT2800L  Vision Care Lab 1 (AS)
2 credits (4 lab hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT1330 (with a grade of C or higher)
This course offers the student the opportunity to experience the fundamentals of the ophthalmic examination in a clinical setting. Students will have the opportunity to observe, work with the EHR, participate in the examination of patients, and apply the basic skills and knowledge obtained in course work while supervised in a clinical setting.

OPT2801L  Vision Care Lab 2 (AS)
2 credits (4 lab hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT2800L (with a grade of C or higher)
This course is a continuation of OPT2800L. The supervised student will gain a working knowledge of advanced clinical duties and responsibilities. Emphasis will be placed on the continued development of basic clinical skills, while developing skills in advanced diagnostic testing, corneal topography, anterior segment photography, fundus photography, retinal imaging, A-scan biometry with IOL calculations, and ophthalmic B-scan ultrasonography.

OPT2940  Ophthalmic Medical Practicum 1 (AS)
2 credits (16 clinical hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT2800L (with a grade of C or higher)
This course is a supervised externship in an approved ophthalmological practice. The student will gain a working knowledge of the daily duties and responsibilities of an ophthalmic technician. Emphasis will be placed on the development of skills in refractometry, advanced tonometry, visual fields testing, and contact lens dispensing.

OPT2941  Ophthalmic Medical Practicum 2 (AS)
4 credits (32 clinical hours)
Prerequisites: Acceptance into the Ophthalmic Medical Technology AS degree program, OPT2800L (with a grade of C or higher)
This course is an externship in an approved surgical training facility. The student will build upon a working knowledge of the duties and responsibilities of the ophthalmic medical technician in a surgical setting. Emphasis will be placed upon the development of skills in operating room circulating, surgical assisting, maintaining sterile technique and instrumentation management in the operating room.
OPT2942  Ophthalmic Medical Practicum 3 (AS)
4 credits (32 clinical hours)
Prerequisites: OPT2801L (with a grade of C or higher)
This course is an advanced externship in an approved surgical training facility. The student will build upon a working knowledge of the duties and responsibilities of the ophthalmic medical technician in a surgical setting. Emphasis will be placed upon the development of skills in operating room circulating, surgical assisting, maintaining sterile technique and instrumentation management in the operating room.

ORH1000  Business Practices, Regulations, Licenses, and Concerns Unique to the Landscape Industry (AS)
1 credit (1 lecture hour)
A short course to help Horticulture near graduates and non-degree seeking students master the business-related aspects of landscaping unique to the industry. This class prepares students to deal with bidding and estimating landscape work, landscape maintenance contracts and subcontracting, prevailing Green Industry business practices, bonding and insurance applied to the industry, environmental regulations, wellfield regulations, licenses and certifications, the seasonal business cycle, labor issues, customer relations, professional organizations, equipment depreciation and other unique tax situations, and sources of information and assistance.

ORH1005L  Professional Landscape Installation and Maintenance (AS)
3 credits (3 lecture hours)
This course provides outdoor and hands-on experience of a professional landscape installer with emphasis on skills required by the Florida Nursery, Growers and Landscape Association for various statewide professional certifications.

ORH1016  Environmental Issues in Horticulture (AS)
3 credits (3 lecture hours)
The field of horticulture has a mixed history in relation to the environment. The purpose of this course is to explore the environmental contributions and hazards of South Florida horticulture, and to provide positive environmentally responsible alternatives to questionable historical practices. Topics to be covered include water use; contamination of ground and surface waters; the ecology of pesticides and herbicides; invasive exotic plants; plants and air quality; soil subsidence; horticulture and urban wildlife; xeriscaping; habitat restoration; remediation; and the use of plants in environmentally sensitive design.

ORH1320  Introduction to Palms and Their Culture (AS)
3 credits (3 lecture hours)
The uniqueness of palms and their interesting morphology provide the basis for this introductory course. Students are also introduced to the production and culture of palms that are appropriate for South Florida landscape use.

ORH1512  Plant Selections for Landscape Situations (AS)
3 credits (3 lecture hours)
Recommended Prerequisite: ORH2510 or ORH2800 (ORH2800 excellent to take simultaneously)
An overview of landscape situations and species to apply to them. The aim of the course is to develop the ability to select species and species combinations appropriate to specific landscaping situations, including northern exposures, shade, salt, high exposure, xeriscaping, wet sites, ground-covers, flowering shrubs, bedding plants, hedges, and specimen trees. This is not a plant identification course (those are ORH2510 and ORH2511), but rather a plant selection and utilization course. English plant names will be emphasized.

ORH1840  Landscape Construction (AS)
3 credits (3 lecture hours)
This course provides basic skills in landscape construction. Blueprint reading, landscape layout, installing of plant materials, hardscape construction, drainage systems and landscape lighting are emphasized.

ORH2241  Arboriculture (AS)
3 credits (3 lecture hours)
This course provides information that focuses on the planting and care of trees, shrubs, and vines in the landscape. Special emphasis is given to the establishment, fertilization, irrigation, and pruning of woody plant species.

ORH2251  Florida Horticulture Professional Preparation (AS)
3 credits (3 lecture hours)
This course is a vocationally-oriented introduction to horticulture, aimed at preparation for the Florida Certified Horticulture Professional exam.

ORH2510  Ornamental Plant Identification 1 (AS)
3 credits (3 lecture hours)
This course focuses on the identification, growth characteristics, culture, and use of subtropical and tropical landscape plants. Materials include trees, shrubs, vines, ground covers, and foliage plants.
ORH2511 Introduction to Plants of South Florida Ecosystems (AS)
3 credits (3 lecture hours)
An overview of the native flora (plant life) of Palm Beach County taught largely in the field. Plants will be studied primarily by their ecological associations and habitats, with additional attention to family groupings. This course is relevant to anyone interested in native plants or local ecology, to those studying environmental science, as well as to horticulturists interested in native plants.

ORH2515 Plants of the South Florida Ecosystems - Grasses, Sedges, Rushes, and Grass-Like Native Plants (AS)
3 credits (3 lecture hours)
This course explores herbaceous species, primarily grasses, sedges, rushes, composites, xyris species, eriocaulons, and assorted plant groups where multiple species occur locally. The plants are studied in the field and in the classroom.

ORH2521 Horticultural Taxonomy (AS)
3 credits (3 lecture hours)
This course will provide an overview of the principles of plant classification relevant to horticulture, and an overview of the major plant groups involved in South Florida horticulture. The course will also provide insights into plant nomenclature and informational retrieval on horticultural plants.

ORH2949C Ornamental Horticulture Work Experience/Internship (AS)
3 credits (2 lecture hours, 15 lab hours)
Prerequisite: Student must have completed at least 12 credit hours with a minimum of 2.0 grade point average
This program combines campus study with directly related work experience in the horticulture field. College credit is given for the learning, which occurs as a result of working in the green industry. Students are required to work 15 hours per week in a horticulture position. Learning objectives are developed by the student, industry supervisor and faculty coordinator. Class meetings and personal conferences are held to discuss progress and resolve problems encountered in the work environment.

ORI2000 Oral Interpretation of Literature (AA)
3 credits (3 lecture hours)
Prerequisite: Appropriate English and reading placement scores or course completion required to enroll in this course
This course emphasizes the basic principles of oral interpretation as applied to the interpretation of prose drama and poetry. Primarily it strives to teach the art of communicating to an audience works of literary art in their intellectual, emotional and aesthetic entirety. Using classical and contemporary literature, students learn how to select, evaluate, analyze, prepare and present material. Reader’s Theatre as well as individual interpretation is studied.

OST1100C Beginning Keyboarding (AS)
3 credits (1 lecture hour, 4 lab hours)
This course provides techniques and basic skill in the touch system of keyboarding. In addition, students prepare business letters, memorandums, reports, and tables using a popular word processing software application.

OST1108 Building Typing Speed and Accuracy (AS)
1 credits (1 lecture hours)
This course is designed to build typing speed and accuracy at the computer keyboard through computerized diagnostic testing and practice. Students enrolled in this course must be able to touch type prior to entering this course. Lake Worth only. Special fee required.

OST1110C Intermediate Keyboarding (AS)
3 credits (1 lecture hour, 4 lab hours)
Prerequisite: OST1100C
This course provides students a word processing program to key and format more advanced styles of business correspondence such as business letters with special features, interoffice memos, multi-page reports, agendas, news releases, minutes, letters of application, resumes, financial documents, and forms.

OST1141L Keyboarding for Microcomputer (AS)
1 credits (2 lab hours)
This course provides the touch method of alphabetic and numeric keyboarding on the computer as well as on the ten-key numeric keypad. This course may not be used for credit as part of the Office Administration degree or certificate programs.

OST1355 Records Management (AS)
3 credits (3 lecture hours)
This course is a study of paper and electronic records management. Topics include indexing and filing rules, and applying these rules to alphabetic, geographic, numeric, and subject filing systems. Students should have a working knowledge of Microsoft Access prior to entering this course.
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<tr>
<td>OST1384</td>
<td>Customer Service (AS)</td>
<td>3</td>
<td>3</td>
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<td>This course covers the many skills that make up effective customer service including listening techniques, verbal and nonverbal communication, use of technology, enhancing customer relation skills, building rapport with customers, dealing with customer service problems, and handling difficult customers.</td>
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<td>OST1783</td>
<td>Workplace Technologies (AS)</td>
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<td>3</td>
<td></td>
<td>This is an exploratory course designed to introduce students to current and emerging technology used in the workplace. Upon completion, students should understand the importance of keeping abreast of technological changes that affect the business environment. Students should have basic computer skills prior to taking this course.</td>
</tr>
<tr>
<td>OST1811</td>
<td>Desktop Publishing (AS)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>This course provides hands-on training in desktop publishing using Microsoft Publisher software. Students will develop the skills necessary to create publications such as flyers, newsletters, brochures, business cards, and business forms.</td>
</tr>
<tr>
<td>OST1828</td>
<td>Presentation Graphics for Business (AS)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>This course provides hands-on training in the use of Microsoft PowerPoint, a popular presentation graphics program. Students will use various features of the program, basic and advanced, to develop computer generated slide presentations.</td>
</tr>
<tr>
<td>OST1831</td>
<td>Microsoft Windows (AS)</td>
<td>1</td>
<td>1</td>
<td></td>
<td>This course gives the students instruction in the use of the Windows operating system. Topics include customizing the desktop, controlling applications, file management, and operation of various accessory programs.</td>
</tr>
<tr>
<td>OST2339</td>
<td>Business English Review (AS)</td>
<td>1</td>
<td>1</td>
<td></td>
<td>This course provides quick review of grammar and punctuation fundamentals pertinent to business writing.</td>
</tr>
<tr>
<td>OST2402</td>
<td>Office Procedures and Technology (AS)</td>
<td>3</td>
<td>3</td>
<td>CGS1100, OST1110C (or OST2714C)</td>
<td>This course will provide an understanding of the role of an administrative office professional. Topics include time management and organization, written communication, telecommunications, information processing, meeting and travel planning, mail and correspondence processing, office ethics, and career planning.</td>
</tr>
<tr>
<td>OST2431</td>
<td>Legal Office Procedures (AS)</td>
<td>3</td>
<td>3</td>
<td></td>
<td>This course is designed for students who aspire to professional status as a legal secretary. It gives the student an overview of the office procedures required of legal secretaries including preparation of legal documents, provides an introduction to terminology and procedures used in non-litigation and litigation matters, and provides training through simulated office situations. It is recommended that students type at least 35 words a minute prior to entering this course. Word processing skills are strongly encouraged.</td>
</tr>
<tr>
<td>OST2501</td>
<td>Administrative Office Management (AS)</td>
<td>3</td>
<td>3</td>
<td>CGS1100</td>
<td>This course is a study of current office management principles, concepts, organizational trends, technology, and human relations as they relate to the responsibilities of the administrative office manager.</td>
</tr>
<tr>
<td>OST2621C</td>
<td>Legal Transcription (AS)</td>
<td>3</td>
<td>2</td>
<td>OST1100C</td>
<td>This course provides instruction for transcribing legal documents into mailable copy. An emphasis is placed on legal terminology, formatting various legal documents, grammar, spelling, and punctuation.</td>
</tr>
<tr>
<td>OST2714C</td>
<td>Word Processing (AS)</td>
<td>3</td>
<td>2</td>
<td></td>
<td>Students will develop skill in word processing techniques using Microsoft Word software. Students will use various features of the program, basic and advanced, including editing, formatting, styles, columns, tables, graphics and desktop publishing. An ability to touch type 35 words per minute is suggested.</td>
</tr>
</tbody>
</table>
###OTA0100  Introduction to Keyboarding/Word Processing (PSAV)

- **60 clock hours**
- This course provides instruction in basic keyboarding and word processing. Students will develop touch control of the keyboard and use word processing features to create and enhance documents.

###OTA0131  Intermediate Keyboarding and Document Processing (PSAV)

- **60 clock hours**
- **Prerequisite:** OTA0100 (with a grade of C or higher)
- This course reinforces skills acquired in Introduction to Keyboarding/Word Processing and introduces more advanced applications. Primary emphasis is placed on document production and increasing speed and accuracy.

###PCB2350C  Tropical Ecology (AA)

- **3 credits (2 lecture hours, 2 lab hours)**
- **Prerequisites:** At least one college-level course in natural or physical sciences
- This course provides students with a foundation in ecological concepts and field techniques as applied to tropical rainforest ecosystems. The course relies on both classroom and field instruction to study plant and animal taxa important in tropical habitats. Topics range from behavioral and physiological adaptations of individual organisms to processes and patterns inherent in diverse assemblages of flora and fauna.

###PEO1031C  Individual Sports (AA)

- **3 credits (2 lecture hours, 2 lab hours)**
- This course includes bowling, archery, and golf providing basic fundamental strategies and skill progressions.

###PEO1321C  Volleyball Fundamentals and Officiating (AA)

- **3 credits (2 lecture hours, 2 lab hours)**
- This course provides the prospective physical education teacher with knowledge and skills in playing and officiating volleyball.

###PEO2004  Theory and Practice of Coaching a Specific Sport (AA)

- **3 credits (3 lecture hours)**
- This course is designed to provide knowledge of the rules, teaching progressions and strategies for competition. The course includes acceptable behavior and ethics for coaches. This course will be offered for the following specific sports: baseball/softball, basketball, football, golf, soccer, swimming, tennis, track and field/cross country, volleyball and wrestling.

###PEO2005  Coaching Theory (AA)

- **3 credits (3 lecture hours)**
- This course is designed to provide knowledge of the characteristics, principles, ethics, and theories related to coaching sports in educational and recreational settings. Emphasis is placed on preparing coaches to train athletes to achieve optimal level of performance.

###PEO2351C  Fundamentals of Racquet Sports (AA)

- **3 credits (2 lecture hours, 2 lab hours)**
- Provides the prospective physical education teacher knowledge and skills in tennis, racquetball, and badminton.

###PEO2621C  Fundamentals of Basketball (AA)

- **2 credits (1 lecture hour, 2 lab hours)**
- Provides the prospective physical education teacher knowledge and skills in basketball and badminton.

###PEP2101  Essentials of Fitness (AA)

- **3 credits (3 lecture hours)**
- Provides the prospective physical education teacher a fundamental knowledge of physical fitness, fitness evaluation and program planning. Each student is required to be certified in CPR.

###PET2622  Care and Prevention of Athletic Injuries (AA)

- **3 credits (3 lecture hours)**
- This course is designed to provide students with a basic knowledge of the care, prevention and rehabilitation of injuries received during participation in physical education activities. Prior First Aid certification is strongly recommended.

###PGY1401C  Introduction to Photography (AA)

- **3 credits (2 lecture hours, 2 lab hours)**
- This is an introduction to black and white photography. The camera's construction and operation is explained. Emphasis is on printing and darkroom procedures.
PGY2445C  Experimental Photography (AA)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: PGY1401C or instructor permission required
This course is designed to help students develop their own sensitivity through experimentation. This course is for those students familiar with processing black and white negative materials and experienced in printing and enlarging black and white photographs. Fine Art and Photography students majoring in this area will complete art oriented projects with strong emphasis on the creative approach in photography. Students will present a portfolio at the end of the semester.

PGY2801C  Digital Photography 1 (AA)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: PGY1401C or permission of instructor
This course provides an introduction to computer imaging tools for the photographer. Students explore a variety of creative techniques for manipulating photographic images using Adobe Photoshop software on Macintosh computers. Includes use of flatbed and slide scanners, options for digital imaging and electronic options and output.

PGY2802C  Digital Photography 2 (AA)
3 credits (2 lecture hours, 2 lab hours)
Prerequisite: PGY1401C, PGY2801C or permission of instructor
This course provides an advanced exploration of digital imaging techniques for the photographer using Photoshop software, including advanced layering, scanning techniques, special effects, masks and channels and preparing images for output and publication. Includes readings and discussions of contemporary issues in technology and the arts.

PHI1010  Introduction to Philosophy (AA)
3 credits (3 lecture hours)
Explores the nature of philosophy, methods and major problems from pre-Socratic era to present. Ideas and their relationship to science, art, religion and sociopolitical development are examined. (*)

PHI1100  Critical Reasoning (AA)
3 credits (3 lecture hours)
This course is designed to introduce students to the essentials of logic as a way to make decisions and to assess the ideas of others. Topics covered include induction, deduction, arguments, fallacies, creative thinking and subjective influences on thinking.

PHI1600  Ethics (AA)
3 credits (3 lecture hours)
A rigorous and systematic inquiry into man's moral behavior discovering rules that ought to govern human action and goals worth seeking in human life using ethics as a science of conduct.

PHY1001  Applied Physics (AA)
3 credits (3 lecture hours)
Prerequisite: MAC1105 (with a grade of C or higher)
This course provides an overview of physical principles for engineering, medical, and other technical personnel. Topics include mechanics, temperature and heat, electricity and magnetism, optics, and modern physics. (*)

PHY2048  General Physics with Calculus 1 (AA)
4 credits (4 lecture hours)
Prerequisite: MAC2311 (with a grade of C or higher); Corequisite: PHY2048L (with a grade of C or higher)
Designed for students in engineering, science, and mathematics who have completed Calculus with Analytic Geometry 1 (MAC2311). This course is a prerequisite for the sequel PHY2049. Topics include vector algebra, kinematics, dynamics, energy and momentum, fluids, and thermodynamics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

PHY2048L  General Physics 1 and General Physics with Calculus 1 Laboratory (AA)
1 credits (2 lab hours)
Corequisite: PHY2053 or PHY2048 (with a grade of C or higher)
This laboratory course provides the student the basic ideas of measurement, analysis of experimental data, and laboratory methods. Each experiment is designed to verify a principle or concept of physics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)
PHY2049 General Physics with Calculus 2 (AA)
4 credits (4 lecture hours)
Prerequisites: PHY2048 (with a grade of C or higher); Corequisites: PHY2049L, MAC2312 (with a grade of C or higher)
Second term of the general physics with calculus sequence. Topics include electrostatics, direct and alternating current circuits, magnetism, electromagnetic induction, electromagnetic waves, and geometric and wave optics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

PHY2049L General Physics 2 and General Physics with Calculus 2 Laboratory (AA)
1 credits (2 lab hours)
Prerequisite: PHY2048L (with a grade of C or higher); Corequisite: PHY2049 or PHY2054 (with a grade of C or higher)
In this sequel to PHY2048L, students continue the operations of apparatus setup, data collection, and statistical analysis. Each experiment is designed to verify a principle or concept of physics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

PHY2053 General Physics 1 (AA)
4 credits (4 lecture hours)
Prerequisite: MAC1105 (with a grade of C or higher); Corequisites: MAC1114, PHY2048L (with a grade of C or higher)
Designed for pre-medical, pre-dental, pre-pharmacy, technical and liberal arts students not majoring in engineering, physical science, or mathematics. This course is a prerequisite for the sequel PHY 2054. Topics include vector algebra, kinematics, dynamics, energy and momentum, fluids, and thermodynamics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

PHY2054 General Physics 2 (AA)
4 credits (4 lecture hours)
Prerequisites: PHY2053, PHY 2048L (with a grade of C or higher); Corequisite: PHY2049L (with a grade of C or higher)
Second term of the general physics sequence. This course provides topics in electrostatics, direct and alternating current circuits, magnetism, electromagnetic induction, electromagnetic waves, optics, quantum physics, and atomic and nuclear physics. In a lecture science course where there is a required co-requisite lab, students may withdraw from the lab class, but stay in the lecture class. (Students may also choose to withdraw from both). Students will not be allowed to withdraw from the lecture and remain enrolled in the lab. (*)

PLA1003 Introduction to Paralegalism (AS)
3 credits (3 lecture hours)
This course provides an overview of the training and purpose of legal assistants. Examines role of lawyers and legal assistants, ethical and professional practice standards for both lawyer and assistant and surveys fields of law covered by the program.

PLA1104 Legal Writing and Research 1 (AS)
3 credits (3 lecture hours)
Prerequisite: ENC1101; Prerequisite or Corequisite: PLA1003
This course is an introduction in writing civil and criminal legal memoranda and briefs to assist supervisor and attorneys in both trial and appellate work. Includes in-depth examination of the law library and legal research.

PLA1273 Tort Law (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
This is a study of the basic law relating to civil wrong as applied to personal and property damage. Topics studied include intentional interference with contractual relations, abuse of process, torts in the family, civil conspiracy and immunities.

PLA1949C Co-op Legal Assistant 1 (AS)
3 credits (1 lecture hour, 10 lab hours)
Prerequisites: PLA1003, PLA1104, PLA2209, and faculty approval
Coordinated work-study program reinforcing educational and professional growth parallel involvement in classroom studies and field experiences. The student and teacher-coordinator determine objective for on-the-job legal assistant assignments. The student is evaluated by the teacher-coordinator and immediate supervisor.

PLA2114 Legal Writing and Research 2 (AS)
3 credits (3 lecture hours)
Prerequisite: PLA1104
This is an advanced course in civil and criminal legal writing and research.
PLA2209 Court System: Procedures and Pleadings 1 (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
Examines structure of both state and federal judicial system and jurisdiction, including basic judicial process and procedure including State and Federal Rules of Courts.

PLA2229 Court System: Procedures and Pleadings 2 (AS)
3 credits (3 lecture hours)
Prerequisite or corequisite: PLA2209
The basics of civil and criminal causes of action through exercises in drafting and use of pleading forms are covered.

PLA2303 Criminal Litigation (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
This course is designed to prepare students to assist criminal trial attorneys in preparing for litigation in both Florida and federal criminal courts. Course content includes exploration and examination of substantive criminal law, constitutional protections specific to criminal proceedings, and the processes governed by the Rules of Criminal Procedure.

PLA2465 Bankruptcy Law and Procedure (AS)
2 credits (2 lecture hours)
Prerequisite or Corequisite: PLA1003
This course covers a broad survey of bankruptcy acts, voluntary and involuntary petitions, liens, preferences, powers of trustee, rights of debtors and creditors, liquidations, and the discharge of bankruptcy, and the legal avenues for the collection of debts including garnishments and seizures.

PLA2483 Administrative Law (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
This course is a broad survey seeking to identify and describe areas of government, both state and federal regulations of businesses and government regulations and administrative procedures.

PLA2600 Administration of Estates (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
Survey of estate planning and administration, including preparation of wills, trust and probate forms.

PLA2611 Real Estate Law and Property Transactions (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
This is a survey of common types of real estate transactions and conveyances, such as deeds, contracts leases, etc., and problems in drafting related documents.

PLA2630 Real Estate Closing and Document Preparation (AS)
3 credits (3 lecture hours)
Prerequisite: PLA2611
This course covers the law and procedures involved in the purchase and sale of real estate; including title searches, title insurance, and the preparation of documents necessary for closing the transaction.

PLA2762 Law Office Management (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
This course covers a wide range of knowledge, skills, and tasks in order to enable the paralegal to function effectively in a legal office. Technology, management skills, and general office procedures and systems are also covered.

PLA2800 Family Law (AS)
3 credits (3 lecture hours)
Prerequisite or Corequisite: PLA1003
This is a study of divorce, separation, custody, legitimacy, adoption, name change, guardianship, support, court procedures, separation agreements, and property disposition.

PLA2841 Immigration Law and Procedures (AS)
2 credits (2 lecture hours)
Prerequisite or Corequisite: PLA1003
This course covers a broad survey of immigration laws and procedures including the preparation of all forms and documents required to file with the Immigration and Naturalization Service.
PLS2220  Plant Propagation (AS)  
3 credits (3 lecture hours)  
This course provides modern techniques of sexual and asexual propagation are surveyed and demonstrated in lecture and lab. Methods include seed germination, grafting, cuttage, and micropropagation. Biochemical processes involved with propagation techniques will be studied.

PMA2213  Plant Pest Management (AS)  
3 credits (3 lecture hours)  
Students are given a basic understanding of plant pests and their effective management. Important insect, fungal, bacterial and viral plant problems will be surveyed. An extensive section on pesticide classification and proper use is included.

PMT0108  Introduction to Welding (PSAV)  
120 clock hours  
Corequisites: VPI0100, VPI0200, VPI0300  
This course provides a hands-on experience in which students will use the oxy-acetylene process to braze weld, flame cut and weld medium carbon steel of various thicknesses. Safe practices in the handling and use of highly pressurized gases are emphasized. Applied physics, math, work place and communication skills are covered.

PMT0109  Introduction to Welding 2 (PSAV)  
120 clock hours  
Corequisites: PMT0108 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides an introduction to arc welding. Students will perform numerous hands-on shop activities. Safe practices in the preparation of the work area and handling of materials are emphasized.

PMT0126  Shielded Metal Arc Welding (PSAV)  
120 clock hours  
Corequisites: PMT0109 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides an introduction to Shielded Metal Arc Welding. Students will identify metals, interpret welding symbols, demonstrate the use of filler metals and shielding gases and fabricate parts from a drawing or sketch. Plasma arc cutting methods for piercing, slotting, squaring, and beveling plain carbon steel, aluminum, and stainless steel will also be covered.

PMT0127  Shielded Metal Arc Welding Advanced (PSAV)  
120 clock hours  
Corequisites: PMT0126 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides an advanced track in SMAW which will allow students to perform lab/shop procedures to safely prepare the work area, identify and use filler metals and shielding gases and perform visual and destructive analysis in the qualification testing of welds on carbon steel. Pipe welding techniques will be introduced.

PMT0143  Flux Cored Arc Welding (PSAV)  
120 clock hours  
Corequisites: PMT0147 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides practical application of setting up, operating, inspecting and making minor repairs to flux cored arc welding equipment and accessories. Students will make fillet and groove welds in all positions, on plain carbon steel and will practice skills relating to personal and environmental safety and in accordance with regulating authorities.

PMT0147  Gas Metal Arc Welding (PSAV)  
120 clock hours  
Corequisites: PMT0127 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides practical application of setting up, operating, inspecting and making minor repairs to gas metal arc welding equipment and accessories. Students will make fillet and groove welds in all positions, on plain carbon steel, aluminum and stainless steel. Related personal and environmental safety issues are emphasized.

PMT0150  Gas Tungsten Arc Welding (PSAV)  
120 clock hours  
Corequisites: PMT0143 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides an introduction to setting up, operating, inspecting and making minor repairs to Gas Tungsten Arc Welding equipment and accessories. Students will safely prepare the work area, identify and use filler metals and shielding gases and make fillet welds in all positions on aluminum and carbon steel. Related personal and environmental safety skills will be covered.

PMT0151  Gas Tungsten Arc Welding - Advanced (PSAV)  
120 clock hours  
Corequisites: PMT0150 (with a grade of C or higher), VPI0100, VPI0200, VPI0300  
This course provides advanced hands-on skills setting up Gas Tungsten Arc Welding (GTAW) equipment for welding carbon steel, aluminum, and stainless steel. Student will perform GTAW fillet and groove welds in varied positions. Student will also be introduced to the skills and techniques needed for cutting, and fabricating pipe.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Corequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMT0167</td>
<td>Pipe Welding (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0151 (with a grade of C or higher), VPI0100, VPI0200, VPI0300</td>
<td>This course provides skills needed to cut, prepare, tack, and weld carbon steel pipe. The student will perform lab and shop procedures to safely prepare the work area, set up welding equipment, and strike an arc. Students will identify and use filler metals and shielding gases. Techniques for identifying, and avoiding weld imperfections are emphasized.</td>
</tr>
<tr>
<td>PMT0168</td>
<td>Pipe Welding Advanced (PSAV)</td>
<td>90 clock hours</td>
<td>PMT0167 (with a grade of C or higher), VPI0100, VPI0200, VPI0300</td>
<td>This course provides knowledge on repair and the fabrication of ferrous and non-ferrous metal products using working drawings and blueprints. Students will perform lab and shop procedures to safely prepare the work area, set up welding equipment, strike an arc, and identify and use filler metals and shielding gases. High quality workmanship and avoidance of weld imperfections are emphasized.</td>
</tr>
<tr>
<td>PMT0201</td>
<td>Shop Math, Blueprints and Measurements (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0202, VPI0100, VPI0200, VPI0300</td>
<td>This course provides skills on job-related math, blueprint, communication, employability, and entrepreneurship. Students will interpret basic machining and blueprint information, and apply blueprint specifications in production operations of basic sets up for manual machining operations.</td>
</tr>
<tr>
<td>PMT0202</td>
<td>Introduction To Machining (PSAV)</td>
<td>120 clock hours</td>
<td>VPI0100, VPI0200, VPI0300</td>
<td>This course provides students an introduction to professional standards for maintaining a safe work area, managing machine operations, performing basic measuring operations, identifying and resolving basic machine maintenance issues. Students set up and operate power saws, pedestal grinders, and drill presses and apply bench-working skills.</td>
</tr>
<tr>
<td>PMT0211</td>
<td>Manual Machining (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0201, VPI0100, VPI0200, VPI0300</td>
<td>This course provides skills to develop competencies for manual machining operations in the machining technology industry. Students will sharpen machine tools, perform basic manual engine lathe, milling machine, and grinding machine set ups and operate machinery. Advanced job-related math problems will be addressed as they relate to machine set-up and operation.</td>
</tr>
<tr>
<td>PMT0228</td>
<td>Advanced CNC Concepts (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0259, VPI0100, VPI0200, VPI0300</td>
<td>Advanced set up, operation and programming of 5 Axis mill and C Axis Lathe CNC machines is covered. Students will coordinate activities of the CAD/CAM software packages and the machine controls to produce hardware to blueprint tolerances. Students will use touch-off and toolsetter probes to decrease setup time.</td>
</tr>
<tr>
<td>PMT0229</td>
<td>Inspection Methods (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0230, VPI0100, VPI0200, VPI0300</td>
<td>This course is designed to develop advanced level competencies in blueprint interpretation, inspection methods, statistical process control (SPC), and the operation and use of coordinate measuring machinery (CMM). Students will perform inspection duties required during machine setups and operations along with performing post machining final part inspection.</td>
</tr>
<tr>
<td>PMT0230</td>
<td>Manual Machining - Advanced (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0211, VPI0100, VPI0200, VPI0300</td>
<td>This course is designed to develop advanced level competencies for the set-up and operation of manually operated lathes, milling machines, and surface grinding machines. Students will plan multiple machining operations involving machine threading and boring with advanced set-ups. Basic inspection methods and techniques will be introduced in this course.</td>
</tr>
<tr>
<td>PMT0251</td>
<td>Introduction to CNC Machining (PSAV)</td>
<td>120 clock hours</td>
<td>PMT0260, VPI0100, VPI0200, VPI0300</td>
<td>The basic set up, operation and programming of Computer Numerical Controlled (CNC) machines are covered. Students will coordinate activities of the CAD/CAM software packages and the machine controls to produce hardware to blueprint tolerances.</td>
</tr>
</tbody>
</table>
PMT0258  CNC Milling Methods (PSAV)
120 clock hours
Corequisites: PMT0251, VPI0100, VPI0200, VPI0300
This course will develop advanced level competencies in the operation of Computer Numerical Controlled (CNC) milling machines and create CNC code from parts geometry. Students will demonstrate safe operating procedures and standard set-up and control of CNC milling equipment.

PMT0259  CNC Lathe Methods (PSAV)
120 clock hours
Corequisites: PMT0258, VPI0100, VPI0200, VPI0300
This course will develop competencies in the operation of Computer Numerical Controlled (CNC) lathe and in the creation CNC code from parts geometry. Students will practice safe operating procedures as well as standard set-up and control of the CNC lathe.

PMT0260  Introduction to CAD/CAM Programming (PSAV)
120 clock hours
Corequisites: PMT0510, VPI0100, VPI0200, VPI0300
This course provides an introduction computer aided operations for machining technology. The students will familiarize with the basic operation and programming of Computer Numerical Controlled (CNC) machines and Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM). Students will use CAD drawing and CAM programming techniques to design, program and machine a part using the CAD/CAM process.

PMT0265  Machining Technologies (PSAV)
60 clock hours
Corequisites: PMT0228 (or PMT0290), VPI0100, VPI0200, VPI0300
This course provides skills to develop competencies in advanced lathe and milling machine operations, and advanced CAD/CAM operations. Students will complete a project which will include a CAD drawing, applicable CAD/CAM and CNC programming, and the use of multiple machines. Industry best practices as they pertain to machining operations, quality standards and safe operating practices will be covered.

PMT0290  Machining Field Experience 1 (PSAV)
120 clock hours
Corequisites: PMT0259, VPI0100, VPI0200, VPI0300
Provides students with realistic on-the-job training experience. Supervision is provided by the respective cooperative teacher and employer. The on-the-job portion of the program will be scheduled as required hours for the program. Specific machining job skills must be identified. Selected job skills will be evaluated a minimum of once during each grading period.

PMT0291  Machining Field Experience 2 (PSAV)
60 clock hours
Corequisites: PMT0228 (or PMT0290), VPI0100, VPI0200, VPI0300
Provides students with realistic on-the-job training experience. Supervision is provided by the respective cooperative teacher and employer. The on-the-job portion of the program will be scheduled as required hours for the program. Specific machining job skills must be identified. Selected job skills will be evaluated a minimum of once during each grading period.

PMT0500  Manufacturing Methods (PSAV)
120 clock hours
Corequisites: PMT0229, VPI0100, VPI0200, VPI0300
This course provides an introduction to job planning activities as they relate to manufacturing and quality issues. Students will practice: set-up reduction, the use of rapid set-up tooling, transferring machining datums, geometric feature controls and part tolerancing. Projects will be assigned to demonstrate these types of manufacturing skills.

PMT0510  Manufacturing Methods - Advanced (PSAV)
120 clock hours
Corequisites: PMT0500, VPI0100, VPI0200, VPI0300
Advanced competencies in the process of job planning activities are covered. These job planning activities concentrate on set-up reduction, the use of rapid set-up tooling, transferring machining datums, geometric feature controls and part tolerancing. Projects will be assigned to demonstrate these types of manufacturing skills.

POO0200  LE Review
32 clock hours
This course is designed to prepare the student for the State Officer Certification Examination through a thorough review process of the entire LE Academy program.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits (Lecture Hours)</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS1001</td>
<td>Introduction to Political Science</td>
<td>3 (3)</td>
<td></td>
<td>This course provides an introduction to the discipline and practice of political science, including politics, law, public administration, political theory and international relations, highlighting the U.S. Constitution, governmental institutions and political practices. Students compare the U.S. with other nations and their constitutions, governmental institutions, and political systems and complete application exercises to develop skills necessary to become effective global citizens. (*)</td>
</tr>
<tr>
<td>POS1041</td>
<td>Introduction to American Government</td>
<td>3 (3)</td>
<td></td>
<td>This course provides a detailed study of the origin and development of America’s unique constitutional democracy and its political institutions, highlighting the federal level of government. It will include information about the U.S. Constitution, Bill of Rights, branches of government, public policy, political ideologies, interest groups, political parties, elections, mass media and other critical components of the political process. (*)</td>
</tr>
<tr>
<td>POS2112</td>
<td>American State and Local Government</td>
<td>3 (3)</td>
<td>Prerequisites: POS1001 or POS1041 (with a grade of C or higher) or permission of instructor</td>
<td>This course provides an introduction to the organization and behavior of major political actors, institutions, policies and localities in the 50 states, with particular emphasis on the state of Florida. It includes a study of the U.S. and state constitutions and the history and development of American federalism. Students will analyze various policies, including taxation, education, welfare, criminal justice, transportation and growth management. (*)</td>
</tr>
<tr>
<td>PRN0005</td>
<td>Fundamentals of Nursing</td>
<td>100 (unknown)</td>
<td></td>
<td>The content of this course includes the history of nursing, current trends and scope of practice. Broad concepts of individual, family and community health as well as the nurse/patient relationship are introduced. Body system focused procedures, assisting the registered nurse with patient assessments, and the Florida Board of Nursing guidelines for preventing medical errors are included in this course.</td>
</tr>
<tr>
<td>PRN0010</td>
<td>Comprehensive Nursing and Transitional Skills</td>
<td>106 (unknown)</td>
<td></td>
<td>This course has been designed to offer the practical nursing student the opportunity to integrate and apply didactic learning with clinical skills as an effective member of the nursing team. Employability skills and the legal and ethical responsibilities of the practical nurse are emphasized.</td>
</tr>
<tr>
<td>PRN0021</td>
<td>Growth/Development and Nutrition</td>
<td>96 (unknown)</td>
<td></td>
<td>The purpose of this course is to provide an integrated concept of growth and nutrition through the developmental processes in humans from birth until death.</td>
</tr>
<tr>
<td>PRN0022</td>
<td>Body Structure and Function</td>
<td>69 (unknown)</td>
<td></td>
<td>This course offers an introduction to the study of the human body. Emphasis will be on the structure and function of body organs and systems including cellular biology and related terminology.</td>
</tr>
<tr>
<td>PRN0030</td>
<td>Introduction to Drug Therapy</td>
<td>100 (unknown)</td>
<td></td>
<td>This course is designed to give basic understanding of medications. Emphasis is on the importance of knowledge of drugs, their use and accuracy in administration. Legal implications and the role of the practical nurse in medication administration are included in this course.</td>
</tr>
<tr>
<td>PRN0061C</td>
<td>Concepts of Fundamentals of Nursing 1</td>
<td>111 (unknown)</td>
<td></td>
<td>Concepts of nursing practice are further developed and include oxygenation, thermoregulation, communication, safety, culture, family dynamics, nutrition, glucose regulation, elimination, mobility, pain, development, health care law, ethics, coping, stress tolerance, motivation and adherence. Students are taught to provide a rationale for judgments used in the provision of safe, quality care and for decisions that promote the health of patients within a family context. Upon completion, conceptual thinking and nursing judgment will be attained, which requires critical thinking, clinical judgment and integration of best evidence into practice.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

PRN0062C  Concepts of Fundamentals of Nursing 2 (PSAV)
116 clock hours
Prerequisites: HCP0121C, HSC0003, PRN0061C (with a grade of C or higher)
This course will integrate the concepts of safety, clinical decision making, health promotion, teaching and learning, patient education, family dynamics, sexuality, reproduction, health care quality, caregiving, anxiety, mood and affect, coping, stress, interpersonal violence, addiction and psychosis. This course combines didactic, lab practice, and a clinical component in a multitude of settings.

PRN0063C  Concepts of Practical Nursing 1 (PSAV)
165 clock hours
Prerequisites: HCP0121C, HSC0003, PRN0061C (with a grade of C or higher)
Concepts are advanced further and include clinical judgment, fluids/electrolytes, acid base balances, gas exchange, perfusion, cellular regulation, tissue integrity, immunity, infection, inflammation, sensory perception, mood and affect, anxiety, cognition, patient education, health promotion, evidence, technology and informatics, collaboration and care coordination. This course combines didactic, lab practice, and a clinical component in a multitude of settings.

PRN0064C  Transitions into Practical Nursing (PSAV)
74 clock hours
Prerequisites: PRN0062C, PRN0063C (with a grade of C or higher)
This course synthesizes the knowledge, skills and attitudes achieved in prerequisite courses. Emphasis is on the integration of concepts for nursing practice with a focus on leadership, collaboration, communication, health policy, health care economics, health care law, clinical judgment, ethics and professionalism. At the completion of this course, the student should be able to advocate for patients and families, make judgments in practice, implement one's role as a nurse, and approach all issues with a spirit of inquiry.

PRN0069C  Concepts of Practical Nursing 2 (PSAV)
165 clock hours
Prerequisites: PRN0062C, PRN0063C (with a grade of C or higher)
Concepts are assimilated in this course and include intracranial regulation, clotting, addiction, interpersonal violence, psychosis, reproduction, sexuality, caregiving, palliation, health care organization, health care policy, health care quality, and health care economics. Teaching methods include a combination of didactic/skills/clinical. At the completion of this course, the student should be able to assess how one's personal strengths and values affect one's identity as a nurse and one's contribution as a member of the health care team.

PRN0100  Maternal and Newborn Health (PSAV)
86 clock hours
The purpose of this course is to assist the student to understand the normal function of the body during pregnancy, delivery and post-partum periods. The student will learn to meet the daily essential needs of the newborn.

PRN0211  Medical-Surgical Nursing 1 (PSAV)
104 clock hours
This course correlates and integrates theoretical and clinical instruction in the care of patients with diseases and disorders of the endocrine and respiratory systems. Theoretical instruction in the care of pediatric patients with diseases and disorders of the endocrine and respiratory systems is provided. Emphasis is on nursing principles and critical thinking skills in meeting the patient's individual nursing needs. Geriatric and pharmacological instruction as well as clinical experiences for the adult patient are integrated in this course.

PRN0212  Medical-Surgical Nursing 2 (PSAV)
115 clock hours
This course correlates and integrates theoretical and clinical instruction in the care of patients with diseases and disorders of the cardiovascular and digestive systems. Theoretical instruction in the care of pediatric patients with diseases and disorders of the cardiovascular and digestive systems is provided. Emphasis is on nursing principles and critical thinking skills in meeting the patient's individual nursing needs. Geriatric and pharmacological instruction and clinical experiences as well as clinical experiences for the adult patient are integrated in this course.

PRN0213  Medical-Surgical Nursing 3 (PSAV)
123 clock hours
This course correlates and integrates theoretical and clinical instruction in the care of patients with diseases and disorders of the musculoskeletal and central nervous systems, as well as patients with atypical behavior. Theoretical instruction in the care of pediatric patients with diseases and disorders of these systems is provided. Emphasis is on nursing principles and critical thinking skills in meeting the patient's individual nursing needs. Geriatric and pharmacological instruction, as well as clinical experiences for the adult patient are integrated in this course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRN0214</td>
<td>Medical-Surgical Nursing 4 Including Pediatrics (PSAV)</td>
<td>101 clock hours</td>
<td>This course correlates and integrates theoretical and clinical instruction in the care of patients with diseases and disorders of the sensory and genitourinary systems. Theoretical instruction in the care of pediatric patients with disease and disorders of these systems is provided. Emphasis is on nursing principles and critical thinking skills in meeting the patient's individual nursing needs. Geriatric and pharmacological instruction, as well as clinical experiences for the adult patient is integrated in this course. This course also offers a clinical experience specifically for the care of the pediatric patient.</td>
<td></td>
</tr>
<tr>
<td>PRN0371</td>
<td>Introduction to Medical/Surgical Nursing 1 (PSAV)</td>
<td>78 clock hours</td>
<td>This course instructs the student in the application of basic principles of medical and surgical nursing. This includes the nursing process, documentation, recognizing the signs/symptoms of illness and further instruction on infection control.</td>
<td></td>
</tr>
<tr>
<td>PRN0372</td>
<td>Introduction to Medical/Surgical Nursing 2 (PSAV)</td>
<td>104 clock hours</td>
<td>This course instructs the student in the application of basic principles of medical and surgical nursing. This includes care of the oncology and geriatric patient as well as the preoperative, intraoperative, and postoperative care of the surgical patient.</td>
<td></td>
</tr>
<tr>
<td>PRN0500</td>
<td>Principles of Basic Nursing Skills (PSAV)</td>
<td>90 clock hours</td>
<td>This course introduces the student to the overall concepts of patient care. The content establishes a foundation of nursing skills. The clinical component focuses on the care of the geriatric patient and takes place in an extended care facility. At the completion of this course, the student will be eligible to take the state nursing assistant certification exam.</td>
<td></td>
</tr>
<tr>
<td>PSC1341</td>
<td>Physical Science for Today's World (AA)</td>
<td>3 credits (3 lecture hours)</td>
<td>Designed for the non-science major. No mathematics is required beyond ratios, proportions and arithmetic. Emphasis on concepts from study of motion, energy, electricity and magnetism, waves and light, atomic and nuclear and chemistry; and use these concepts to develop an understanding of everyday science. (*)</td>
<td></td>
</tr>
<tr>
<td>PSY2012</td>
<td>General Psychology (AA)</td>
<td>3 credits (3 lecture hours)</td>
<td>This course explores various aspects of human behavior and mental processes and provides a representative survey of psychology. Major emphases include philosophical forces that shape psychological study, the structure and function of personality, individual and group differences, the nature of intelligence, the motivational aspects of behavior and emotions, the learning process, and biological foundations of behavior. A demonstration of computer application is also required. (*)</td>
<td></td>
</tr>
<tr>
<td>REA0056</td>
<td>College Reading (Dev Ed)</td>
<td>2 institutional credits (2 lecture hours)</td>
<td>Prerequisite: PERT (Reading) scores 90-105; Corequisite: SLS1501 A college reading course focusing on literal and critical reading skills.</td>
<td></td>
</tr>
<tr>
<td>REE0042</td>
<td>Real Estate Broker (PSAV)</td>
<td>72 clock hours</td>
<td>Prerequisites: Must have a real estate license, completed a 45-Hour Post-Licensure Real Estate class and department permission. The purpose of this course is to provide the licensed Real Estate Sales Associate with the fundamental knowledge required by the Florida Real Estate Commission to successfully complete the State License Examination for the Real Estate Brokers. The content includes appraising, finance, investment and other related real estate topics.</td>
<td></td>
</tr>
<tr>
<td>REE0047</td>
<td>Florida Real Estate Sales Agent (PSAV)</td>
<td>63 clock hours</td>
<td>This course is designed to prepare students for employment as a real estate sales agent or to provide supplemental training for those persons previously or currently employed in this occupation. The student is also prepared for the Florida State Real Estate Salesperson's license examination.</td>
<td></td>
</tr>
<tr>
<td>REL2300</td>
<td>Introduction to the Major Religions of the World (AA)</td>
<td>3 credits (3 lecture hours)</td>
<td>Introduction to major religions of the world including Primitivism, Hinduism, Judaism, Shintoism, Zoroastrianism, Taoism, Jainism, Buddhism, Confucianism, Christianity, Islam and Sikhism.</td>
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</tr>
</tbody>
</table>
RET1272  
Fundamentals of Respiratory Care 1 (AS)  
9 credits (9 lecture hours)  
Corequisites: RET1272L, RET1874L (with a grade of C or higher)  
Introduction to basic science, theories, and technologies in respiratory care with emphasis on knowledge required to perform respiratory care, medical terminology, pharmacology, medical gas therapy, patient assessment, therapies and diagnostics. The basic components will be incorporated into discussions regarding cardiopulmonary anatomy and physiology.

RET1272L  
Fundamentals of Respiratory Care 1 Lab (AS)  
3 credits (6 lab hours)  
Corequisites: RET1272, RET1874L (with a grade of C or higher)  
Emphasis is on competence and proficiency skills in applying therapeutic and diagnostic respiratory care. Laboratory experience in medical gas and aerosol delivery and cardiopulmonary resuscitation.

RET1273  
Fundamentals of Respiratory Care 2 (AS)  
6 credits (6 lecture hours)  
Prerequisites: RET1272/1272L, RET1874L (with a grade of C or higher); Corequisites: RET1273L, RET1875L (with a grade of C or higher)  
Continues basic science, theories and technologies in respiratory care including blood gas analysis, airway management, pulmonary function, cardiopulmonary diseases and mechanical ventilation.

RET1273L  
Fundamentals of Respiratory Care 2 Lab (AS)  
2 credits (4 lab hours)  
Prerequisites: RET1272/1272L, RET 1874L (with a grade of C or higher); Corequisites: RET1273, RET1875L (with a grade of C or higher)  
Course emphasis is on competence and proficiency skills applying therapeutic and diagnostic respiratory care. Laboratory experience in airway management, blood gas analysis, intensive care mechanical ventilation.

RET1874L  
Clinical Internship 1 (AS)  
1 credits (8 lab hours)  
Corequisites: RET1272, RET1272L (with a grade of C or higher)  
This course provides an orientation to the clinical practice of respiratory care which is emphasized in this 8 hour per week, class/hospital based course. Organization of the patient chart, aseptic technique, sterilization techniques, patient assessment, pharmacology, application of skills (oxygen therapy, etc.) learned in RET1272L and time management are stressed in this clinical internship.

RET1875L  
Clinical Internship 2 (AS)  
3 credits (24 lab hours)  
Prerequisites: RET1272/1272L, RET 1874L (with a grade of C or higher); Corequisites: RET1273/1273L (with a grade of C or higher)  
Direct patient contact is emphasized within this 24-hour/week, hospital-based course. Included but not limited to is medical gas therapy, pharmacologic aerosol delivery, patient assessment and reporting, lung expansion therapy, positive pressure breathing techniques and blood gas sampling and analysis.

RET1876C  
Clinical Internship 3 (AS)  
4 credits (3 lecture hours, 12 lab hours)  
Prerequisites: RET1273/1273L, RET1875L (with a grade of C or higher)  
Emphasizes application of respiratory care theory and technology in intensive care including patient contact during a 32-hour/week, hospital-based internship. Intensive care therapeutics and diagnostics include patient assessment, mechanical ventilation techniques, cardiopulmonary resuscitation, and patient care planning with the healthcare team. Physician contact is required.

RET2280C  
Fundamentals of Respiratory Care Therapy 3 (AS)  
7 credits (6 lecture hours, 2 lab hours)  
Prerequisites: RET1273/1273L, RET1876C (with a grade of C or higher); Corequisite: RET2877L (with a grade of C or higher)  
This course provides respiratory care clinical lectures on advanced cardiopulmonary monitoring/diagnostic techniques to include hemodynamic monitoring, fluid and electrolyte balance, advanced EKG and cardiovascular pharmacology. Advanced cardiac life support (ACLS) certification.

RET2534C  
Fundamentals of Respiratory Care Therapy 4 (AS)  
7 credits (6 lecture hours, 2 lab hours)  
Prerequisites: RET2280C, RET2877L (with a grade of C or higher); Corequisite: RET2878L (with a grade of C or higher)  
This course provides combined lecture and laboratory instruction specific to neonatal respiratory care, pediatric respiratory care, advanced pulmonary function, sleep medicine, home care and pulmonary rehabilitation. Certification NRP and PALS. Students will sit for self assessment examinations (SAE’s) to assess preparedness for National Board examinations.
RET2877L  Clinical Internship 4 (AS)  
2 credits (16 lab hours)  
Prerequisite: RET1876C (with a grade of C or higher); Corequisite: RET2280C (with a grade of C or higher)  
Hospital-based internship provides experience and training for departmental management and advanced clinical training in critical care monitoring, exercise testing, and research methods focusing on decision-making in patient-case management.

RET2878L  Clinical Internship 5 (AS)  
2 credits (16 lab hours)  
Prerequisite: RET2877L (with a grade of C or higher); Corequisite: RET2534C (with a grade of C or higher)  
This course solidifies the adult critical care experience. Students will also be exposed to Neonatal Intensive Care, Pediatric Intensive Care, and specialty relations of their choosing. Elective rotations will be determined by the instructor and student and is subject to approval of the Director of Clinical Education.

RMI0091  Property and Casualty/General Lines (PSAV)  
200 clock hours  
Prepares students to take the State of Florida 2-20 licensing exam for General Lines Agent. Topics included are automobile, fire and allied lines, general liability, homeowner’s insurance, crime and surety, workers’ compensation, inland and ocean marine, aviation, and boiler machinery. (200 hours)

RMI0092  Life, Health and Variable Annuities (PSAV)  
40 clock hours  
Prepares students to take the State of Florida 2-15 licensing exam for Life, Health and Variable Annuity Agent. Topics included are insurance terminology and concepts, federal and state regulations, and legal contracts. (40 hours)

RMI0093  Insurance Customer Service Representative (PSAV)  
40 clock hours  
This “designation” course is approved by Florida Department of Insurance for the 4.40 Insurance license. Students must pass the class with a score of 70% or higher to meet the state requirements. Topics covered are property and casualty, health insurance, agency operations, and good customer service.

RMI0635  Insurance Claims Adjuster (PSAV)  
40 clock hours  
This “designation” course is approved by Florida Department of Insurance for the 6.20 Adjuster’s license. Students must pass the class with a score of 70% or higher to meet the state requirements. Topics covered are property and casualty, general lines, health insurance, agency operations, policies and coverages. Emphasis is on adjusting insurance claims. This course is a pre-licensing requirement for the Public Adjuster Apprentice Insurance License.

RMI3004  Risk Management (BAS)  
3 credits (3 lecture hours)  
This course covers basic principles and concepts relating to risk management as it relates to personal and business environments. The major areas of instruction include property/casualty, life, life and health.

RTE1000  Introduction to Radiography (AS)  
3 credits (3 lecture hours)  
Prerequisite: Program Admission  
This course provides an introduction to the program, profession, didactic and clinical environments. Students will demonstrate knowledge of radiation protection, x-ray production, interactions, principles of radiographic imaging, equipment and radiographic technique.

RTE1401  Radiographic Imaging 1 (AS)  
2 credits (2 lecture hours)  
Prerequisite: RTE1000; Corequisite: RTE1401L  
An analysis of technical systems and radiographic technique. The student will describe the Inverse Square Law, the fundamentals of physics, atomic structure, the electromagnetic spectrum, x-ray production, x-ray emission, x-ray interactions and quality control.

RTE1401L  Radiographic Imaging 1 Lab (AS)  
1 credits (2 lab hours)  
Prerequisite: RTE1000; Corequisite: RTE1401  
Laboratory exercises to accompany RTE1401, the student will demonstrate the clinical applications of technique systems, radiographic technique, the Inverse Square Law, x-ray production, x-ray emission, x-ray interactions, and quality control.
RTE1457 Radiographic Imaging 2 (AS)
2 credits (2 lecture hours)
Prerequisite: RTE1401; Corequisite: RTE1457L
This course provides an analysis of digital image formation, imaging cassettes, beam restricting devices, grids, digital image processing, digital image processors, digital imaging quality, digital image quality control, and the theory and practice of safe exposure values.

RTE1457L Radiographic Imaging 2 Lab (AS)
1 credits (2 lab hours)
Prerequisite: RTE1401L; Corequisite: RTE1457
Laboratory exercises to accompany RTE1457, the student will demonstrate the clinical applications of digital image receptors, cassettes, beam restrictors, grids, digital image processing, digital image processors, digital image quality, and quality control.

RTE1503 Radiographic Procedures 1 (AS)
3 credits (3 lecture hours)
Prerequisite: Program Admission; Corequisites: RTE1503L, RTE1804
This course provides instruction in radiographic examinations of the chest, abdomen, upper extremities, and shoulder girdle. The student will demonstrate understanding of anatomy, physiology, radiographic procedures, technical factors and related pathology for each unit of study. An introduction to medical terminology, radiographic terminology, and the fundamentals of patient care is made.

RTE1503L Radiographic Procedures 1 Lab (AS)
1 credits (2 lab hours)
Prerequisite: Program Admission; Corequisite: RTE1503
Laboratory to accompany RTE1503 the Radiography student will simulate radiographic examinations of the chest, abdomen, upper extremities, and shoulders. Emphasis is placed on the fundamentals of patient care.

RTE1513 Radiographic Procedures 2 (AS)
2 credits (2 lecture hours)
Prerequisite: RTE1503; Corequisites: RTE1513L, RTE1814
This course is designed to provide the radiography student with instruction in radiographic examinations of the lower extremities, gastrointestinal system and biliary system. Special emphasis of radiographic anatomy, surface landmarks, positioning technique, pathology and image evaluation shall be made. This course includes discussion of patient care and medical terminology related to course topics. This course also includes the composition, use and effects of contrast media on the human body.

RTE1513L Radiographic Procedures 2 Lab (AS)
1 credits (2 lab hours)
Prerequisite: RTE1503L; Corequisite: RTE1513
Laboratory to accompany RTE1513 provides the radiography student with an opportunity to simulation of radiographic examinations of the lower extremities, gastrointestinal system and biliary system. Special emphasis of radiographic anatomy, surface landmarks, positioning, technique, pathology and image evaluation will be made.

RTE1523 Radiographic Procedures 3 (AS)
3 credits (3 lecture hours)
Prerequisite: RTE1513; Corequisites: RTE1523L, RTE1824
This course is a continuation of study in radiologic anatomy, positioning, pathology and film critique with emphasis on radiography of the biliary and genitourinary systems, tomography, the vertebral column, and bony thorax. The learner will demonstrate knowledge of patient care and medical terminology related to course topics, as well as the use and effects of contrast media on the human body.

RTE1523L Radiographic Procedures 3 Lab (AS)
1 credits (2 lab hours)
Prerequisite: RTE1513L; Corequisite: RTE1523
Laboratory to accompany RTE1523 provides the student with an opportunity to simulate radiographic examination of the genitourinary system, vertebral column and bony thorax. Special emphasis of anatomy, landmarks, positioning, technique and image evaluation will be made.

RTE1804 Radiographic Clinical Education 1 (AS)
3 credits (24 clinical hours)
Corequisite: RTE1503
This course is designed to provide the student with the practical application, in a supervised clinical setting, of the theory covered in RTE1503 and RTE1000. Rotations through selected areas of the Radiography Department allow the student to gain first-hand experiences in image management and transportation of patients. The student will observe, assist and perform basic radiographic procedures (chest, abdomen and extremities) under direct supervision.
RTE1814  Radiographic Clinical Education 2 (AS)
2 credits (18 clinical hours)
Prerequisite: RTE1804; Corequisite: RTE1513
A continuation of RTE1804 with students performing radiographic examination under direct supervision in Clinical Education Centers. Emphasis is placed on upper and lower extremities, gastrointestinal tract procedures and film critique.

RTE1824  Radiographic Clinical Education 3 (AS)
3 credits (24 clinical hours)
Prerequisite: RTE1814; Corequisite: RTE1523
A continuation of RTE1814 with students performing radiographic examination under direct supervision in Clinical Education Centers. Emphasis is placed on the spine, genitourinary system, thorax, and image evaluation. Students will begin to perform procedures with indirect supervision.

RTE2130  Pharmacology for Medical Imaging (AS)
3 credits (3 lecture hours)
Prerequisites: RTE2563 or Registered Technologist; Corequisite: RTE2854
The learner will demonstrate knowledge in pharmacology and drug administration for the medical imaging professional. The principles of patient care, assessment, education, charting and emergency response are discussed. Finally, a workshop for career preparation, licensure and job search is conducted.

RTE2385  Radiobiology (AS)
3 credits (3 lecture hours)
Prerequisite: RTE2613
Analysis of the production of x-rays, ionizing radiation, x-ray interactions with matter, biologic effects, radiobiology, early and late effects of radiation, radiation monitoring and protection for both the patient and the radiographer.

RTE2473L  Radiography Seminar (AS)
2 credits (4 lab hours)
Corequisite: RTE2385
Prospective graduates will prepare for entry into the field of medical imaging and the transition to the role of professional care-giver. An in-depth analysis of professional competencies required for entry into the workplace including: radiographic procedures, patient care, image production and evaluation, equipment operation and maintenance, radiation protection, and evaluation processes.

RTE2533  Radiographic Procedures 4 (AS)
3 credits (3 lecture hours)
Prerequisite: RTE1523; Corequisites: RTE2533L, RTE2834
This course provides continued study in radiologic anatomy, positioning, pathology and image evaluation with emphasis on the skull and special procedures. Topics include sinuses, mastoids, facial bones and orbits. This course also provides instruction in mammography, operative procedures, myelography and other special procedures. This course includes discussion of patient care, contrast media and medical terminology related to course topics.

RTE2533L  Radiographic Procedures 4 Lab (AS)
1 credits (2 lab hours)
Corequisite: RTE2533
Laboratory to accompany RTE2533 provides the student with the opportunity to simulate exams of the skull, facial bones and selected special procedures. Topics include sinuses, mastoids, facial bones, orbits, mammography, operative procedures, myelography, and other special procedures.

RTE2563  Advanced Medical Imaging (AS)
3 credits (3 lecture hours)
Prerequisite: RTE2533; Corequisite: RTE2844
This course prepares the radiographer to conduct diagnostic vascular procedures and patient care in angiography, peripheral venography, vascular, and non-vascular interventions. An introduction to cross-sectional anatomy, CT, MRI, sonography, nuclear medicine and radiation therapy is provided.

RTE2571  Computed Tomography 1 (AS)
3 credits (3 lecture hours)
Pre or Corequisite: RTE2762 (with a grade of C or higher)
This course provides the registered radiographer advanced imaging techniques of computed tomography. This introduction to the CT scanning technology will include history and development, equipment, terminology, patient preparation and care, and the principles of image formation, acquisition, and production.
RTE2571L  Computed Tomography Clinical Education (AS)
3 credits (18 clinical hours)
The course provides the registered radiographer practical, firsthand experience in scanning procedures and techniques at a supervised clinical site; theories learned in RTE 2571 will be applied. Students will observe, assist, and perform Computed Tomography under the supervision and guidance of a qualified CT Technologist.

RTE2575  Introduction to Magnetic Resonance Imaging (AS)
3 credits (3 lecture hours)
Prerequisite: Must be ARRT(R) or registry eligible; Prerequisite or Corequisite: RTE2762 (with a grade of C or higher)
Registered radiographers will develop an understanding of the field of magnetic resonance imaging. This MRI introduction will include an overview of the history and development, fundamental principles, equipment, terminology, patient screening and safety, contraindications, and image formation, acquisition, and production.

RTE2576  Magnetic Resonance Imaging 2 (AS)
3 credits (3 lecture hours)
Prerequisite: RTE2575 (with a grade of C or higher)
The registered radiographer continues exploration of Magnetic Resonance Imaging and to include technical factors and clinical applications. Topics discussed will include coil availability and selection, consideration of scan sequences, specific choices in protocols (i.e., slice thickness, phase direction, flow compensation, etc.), pulse sequencing, imaging parameters, and quality assurance.

RTE2576L  Magnetic Resonance Imaging Clinical Education 2 (AS)
3 credits (24 lab hours)
Prerequisite: RTE2575 (with a grade of C or higher)
This course is designed to provide the student with practical, firsthand experience in scanning procedures and techniques at a supervised clinical site; theories learned in RTE2575 and RTE2576 will be applied. Students will observe, assist, and perform Magnetic Resonance Imaging under the supervision and guidance of a qualified MRI Technologist.

RTE2577L  Magnetic Resonance Imaging Clinical Education 1 (AS)
3 credits (24 lab hours)
Prerequisite: Instructor approval is required
This course is designed to provide the student with practical, firsthand experience in working in the Magnetic Resonance Imaging environment. Students will attend a supervised clinical site to apply the theories learned in RTE2575, such as screening individuals prior to entering the examination room and identification of images.

RTE2613  Radiologic Physics (AS)
3 credits (3 lecture hours)
Prerequisite: RTE1457
In-depth analysis of electricity, magnetism, electromagnetism, electric generators, motors, transformers and rectifiers, construction and function of x-ray tubes, the use of tube rating charts, x-ray system components and schematics, fluoroscopic systems, video systems, and an introduction to the concepts of digital imaging.

RTE2762  Cross Sectional Anatomy (AS)
3 credits (3 lecture hours)
Registered radiographers will identify cross-sectional anatomy as it appears in CT and MRI scanning. Normal anatomic structures of the head, neck, thorax, abdomen, pelvis, spine and extremities will be presented in multi-planar sections.

RTE2834  Radiographic Clinical Education 4 (AS)
3 credits (24 clinical hours)
Prerequisite: RTE1824; Corequisite: RTE2533
A continuation of RTE1824 with students performing procedures taught in previous clinical courses. Emphasis is placed on the radiography of the skull and special procedures. Includes image evaluation.

RTE2844  Radiographic Clinical Education 5 (AS)
2 credits (18 clinical hours)
Prerequisite: RTE2834; Corequisite: RTE2563
A continuation of RTE2834 with students perfecting positioning skills and learning to work independently. Clinical rotation through special procedures, mammography, radiation oncology, CT, MRI, nuclear medicine and ultrasound, at the end of which, each student will be able to discuss the theoretical and clinical application of each modality. Includes image evaluation.

RTE2854  Radiographic Clinical Education 6 (AS)
3 credits (24 clinical hours)
Prerequisite: RTE2844; Corequisite: RTE2130
A continuation of RTE2844 with students practicing positioning skills with indirect supervision. Emphasis is placed on completing clinical competencies. Rotations through advanced imaging modalities are included. Includes image evaluation.
### RTV1558C  
**Studio Recording (AS)**  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: FIL1547C, FIL2538C (with a grade of C or higher)  
An introduction to techniques, practices and procedures in making multi-track studio recordings. The student will gain experience with acoustical balancing, editing and over-dubbing in a wide variety of studio sound situations. Students will complete assignments in conjunction with students in other concurrent program courses.

### RTV1559C  
**Live Performance Recording (AS)**  
3 credits (2 lecture hours, 2 lab hours)  
Prerequisites: FIL1547C, FIL2538C (with a grade of C or higher)  
An introduction to techniques, practices and procedures in live-event performance recording. The student will gain experience with developing solutions and working within professional parameters. Students will complete assignments in conjunction with students in other concurrent program courses.

### SLS1201  
**Personal Development (AA)**  
3 credits (3 lecture hours)  
Students will learn and apply proven strategies to become active, responsible and successful learners. Major topics include personal self-responsibility, self-motivation, self-management, self-awareness, social interdependence, emotional intelligence, life-long learning and self-esteem.

### SLS1300  
**Career Self-Assessment (AA)**  
1 credits (1 lecture hours)  
This course facilitates learning more about career interests, values, skills, personality and academic strengths in a classroom setting and/or independent study. The goal is to identify occupations that are congruent with one's personal needs. exploration.

### SLS1301  
**Career Development (AA)**  
3 credits (3 lecture hours)  
This course provides guidance to students through the career development process. Students will assess their interests, values, skills, personality traits, and academic strengths and connect these to occupations and college majors. Occupations congruent with student needs will be identified and resources for career information research will be explored. Communication and networking skills, job-search strategies, resume writing and interviewing will be covered.

### SLS1302  
**Career Information and Decision-Making (AA)**  
1 credits (1 lecture hours)  
This course provides research selected occupations and college majors and develops a career and educational plan in a small group and independent study format. Use Career Center and community resources for research purposes and learn effective decision-making techniques. This course is for the student who has completed SLS1300 or has three or four occupations in mind to research in detail.

### SLS1303  
**Job Search (AA)**  
1 credits (1 lecture hours)  
This course explores the development of a comprehensive job search campaign and covers such topics as resume and cover letter writing, networking, professional etiquette and telephone skills, interviewing, dressing for success and the use of technology in the job search.

### SLS1501  
**Introduction to the College Experience (AA)**  
3 credits (3 lecture hours)  
This course enhances success and retention of students entering Palm Beach State College. Students will engage in meaningful self-assessment, develop and strengthen academic skills, participate in career exploration and educational planning, and explore college culture and academic resources.

### SLS2261  
**Leadership Development (AA)**  
3 credits (3 lecture hours)  
Prerequisites: ENC1101 (or ENC1121), SPC1017 (with a grade of C or higher) - (with permission of the instructor, any and/or all prerequisites may be waived.)  
Focuses on development of leadership, a personal philosophy of leadership, leadership potential and integrating theory with application in a group setting.

### SON1000  
**Practical Aspects of Sonography 1 (AS)**  
3 credits (3 lecture hours)  
Prerequisites: SON1100L, SON1311 (with a grade of C or higher); Corequisites: SON1112, SON1121, SON1618 (with a grade of C or higher)  
A study of the principles of diagnostic ultrasound and practical aspects of scanning techniques, film critique, film identification and patient care and handling as related to sonographic examination. Stressing the operation of diagnostic ultrasound equipment and routine images obtained.
SON1001  Practical Aspects of Sonography 2 (AS)
3 credits (3 lecture hours)
Prerequisite: SON1000 (with a grade of C or higher); Corequisite: SON1824L (with a grade of C or higher)
Offering more advanced principles of diagnostic ultrasound, adding knowledge of pathological processes. Further presenting the practical aspects of scanning techniques, film critique, film identification and patient care and handling as related to sonographic examination. Stressing the correlation of all patient data, including sonographic images obtained to assist in the differential diagnosis process.

SON1004L  Sonographic Hospital Procedures (AS)
2 credits (2 lab hours)
Prerequisite: Admission to Sonography program; Corequisite: SON1100L (with a grade of C or higher)
An introduction to hospital protocol/procedures with a basic overview of the role of the sonographer in diagnostic imaging. Introduction to patient care skills applied to the role of a sonographer in an imaging department. An exploration of nursing care skills, scanning ergonomics, patient confidentiality, and communication skills with hospital personnel as applied to all areas of sonography. This class will include lab instruction and clinical site visits.

SON1100L  Principles and Protocols of Sonography Lab (AS)
3 credits (6 lab hours)
Corequisites: SON1111, SON1311, SON1614 (with a grade of C or higher)
An introduction to the basic approaches to sonographic scanning and scanning protocols for the abdomen, small parts, pelvis and beginning OB.

SON1111  Abdominal Sonography 1 (AS)
3 credits (3 lecture hours)
Corequisites: SON1100L, SON1311, SON1614 (with a grade of C or higher);
An introduction to the transverse and longitudinal anatomy of the abdominal and superficial structures and its recognition on sonographic visualization systems.

SON1112  Abdominal Sonography 2 (AS)
3 credits (3 lecture hours)
Prerequisites: SON1111 (with a grade of C or higher); Corequisites: SON1000, SON1112, SON1618 (with a grade of C or higher)
An in-depth presentation of abdominal and small parts area stressing physiology, and pathology of. Pertinent laboratory tests as well as signs and symptoms related to disease processes of each organ will be discussed and the studies to make a diagnostically acceptable study.

SON1121  Sonographic OB/GYN 1 (AS)
3 credits (3 lecture hours)
Prerequisites: SON1100L, SON1311 (with a grade of C or higher); Corequisites: SON1000, SON1112, SON1618 (with a grade of C or higher)
An introduction to the transverse and longitudinal anatomy of the female reproductive system with and without an existing pregnancy. The sonographic recognition of the normal throughout all terms of pregnancy is presented.

SON1122  Sonographic OB/GYN 2 (AS)
3 credits (3 lecture hours)
Prerequisite: SON1121 (with a grade of C or higher); Corequisite: SON1170 (with a grade of C or higher)
This course provides discussion on laboratory tests, signs and symptoms of gynecologic disease along with pathologies related to genetics and teratogenesis in OB. Scan recognition of normal and abnormal cases.

SON1170  Sonography of the Circulatory System (AS)
3 credits (3 lecture hours)
Prerequisites: SON1112, SON1618 (with a grade of C or higher); Corequisites: SON1122, SON1814L (with a grade of C or higher)
An introduction to the hemodynamics of the circulatory systems and the sonographic imaging and Doppler assessment of the cardiac and vascular structures.

SON1311  Sonography Cross Sectional Anatomy (AS)
2 credits (2 lecture hours)
Corequisite: SON1100L (with a grade of C or higher)
Introduces the student to the sonographic representation of the abdominal structures and female pelvic anatomy in regards to the cross sectional anatomy.
SON1614 Medical Sonographic Physics 1 (AS)
3 credits (3 lecture hours)
Corequisites: SON1100L, SON1111, SON1311 (with a grade of C or higher)
A study of the principles of diagnostic ultrasound, the fundamental properties of ultrasonic physics, stressing tissue interactions, and interfaces. Focusing characteristics, methods, intensity, and power considerations are introduced along with system resolution considerations.

SON1618 Medical Sonographic Physics 2 (AS)
3 credits (3 lecture hours)
Prerequisite: SON1614 (with a grade of C or higher); Corequisites: SON1000, SON1112, SON1121 (with a grade of C or higher)
A continuation of the study of the properties of diagnostic ultrasound stressing the operation of diagnostic equipment, the display systems, biological effects and quality assurance methods. Current developments in ultrasound are reviewed, discussed, and evaluated.

SON1804L Clinical Education 1 (AS)
3 credits (24 clinical hours)
Prerequisites: SON1100L, SON1311 (with a grade of C or higher); Corequisites: SON1112, SON1121, SON1618 (with a grade of C or higher)
Clinical education requiring application of the knowledge learned. Professionalism and personal interaction are stressed along with technical abilities. As the student progresses he or she will be performing examinations with supervision.

SON1814L Clinical Education 2 (AS)
3 credits (24 clinical hours)
Prerequisite: SON1804L (with a grade of C or higher); Corequisites: SON1122, SON1170 (with a grade of C or higher)
A continuation of the learning by doing process where more responsibility in the form of decision making regarding anatomical areas and resultant imaging is assured by the student being supervised.

SON1824L Clinical Education 3 (AS)
4 credits (32 clinical hours)
Prerequisite: SON1814L (with a grade of C or higher); Corequisite: SON1001 (with a grade of C or higher)
Application of all the material presented requiring the student to make judgmental decisions regarding technical aspects, to interact in a professional manner with those with whom he or she comes in contact, and to generally progress to the point where, after successful testing, he or she may be accepted as a competent sonographer for general sonographic exams.

SOP2740 Feminist Psychology (AA)
3 credits (3 lecture hours)
Focusing upon the historical and currently changing roles of women, this course will emphasize psychosocial processes, sex-role stereotyping, institutional sexism and discriminatory practices, the Women's Rights Movement and men's liberation. The impact on behavior of psychological constraints is examined within an experiential framework. Students are encouraged to explore their attitudes, interests, and aspirations to stimulate self-awareness and facilitate personal growth.

SOW1051LR True Calling: Community-Based Learning (AA)
1 credits (2 lab hours)
This community-based learning course allows students to arrive at a personal understanding of social responsibility through civic engagement and critical reflection with opportunities for experiential learning. Students complete 16 hours of community-based work while applying knowledge and gaining practical experience on site. Students interact with individuals in various settings including hospitals, historical, educational, social, government, environmental, and other community organizations.

SPC1017 Fundamentals of Speech Communication (AA)
3 credits (3 lecture hours)
This course will introduce the student to the basic principles of effective speech communication. Topics will include intrapersonal communication, intercultural communication, listening, verbal communication, nonverbal communication, small group dynamics, mass communication, and public communication. Students will complete oral and written projects designed to demonstrate an understanding of the communication process and an ability to analyze and think critically about communication in today's dynamic and diverse global marketplace. (*)

SPC2052 Voice and Diction (AA)
3 credits (3 lecture hours)
Introduces vocal mechanism and function. Vocal quality, expressiveness, articulation and pronunciation will be emphasized. Students will practice using the International Phonetic Alphabet.
SPC2300  Introduction to Interpersonal Communication (AA)
3 credits (3 lecture hours)
This course introduces students to the communication skills needed in face-to-face relationships in everyday interaction. Topics included are communication competence, perception, self-awareness, conflict, the impacts of culture and listening. Emphasis is on awareness of communication skills and problems in relationships. Many experiential activities are included.

SPC2511  Argumentation and Debate (AA)
3 credits (3 lecture hours)
Prerequisite: SPC1017 (with a grade of C or higher) or permission of instructor
This course will cover the principles of argumentation including analysis of propositions, use and evaluation of evidence and modes of reasoning with specific application in an educational-debate format.

SPC2608  Public Speaking (AA)
3 credits (3 lecture hours)
Prerequisite: SPC1017 (with a grade of C or higher) or permission of instructor
This course is an intensive study of public speaking. The principles of speech preparation, organization and delivery are reviewed. Student will practice specialized types of speech communication experiences common to those called on to give speeches in public.

SPN1120  Elementary Spanish 1 (AA)
4 credits (4 lecture hours)
This class provides opportunities to develop the basic language skills: listening, speaking, reading and writing of Spanish with an emphasis on the spoken language. The course drills pronunciation, vocabulary building and elementary grammar and composition. Cultural aspects of Hispanic populations will be discussed.

SPN1121  Elementary Spanish 2 (AA)
4 credits (4 lecture hours)
Prerequisite: SPN1120 (with a grade of C or higher) or equivalent
A continuation of SPN1120 providing opportunities to develop the basic language skills: listening, speaking, reading and writing of Spanish with an emphasis on the spoken language. It drills pronunciation, vocabulary building and elementary grammar and composition. Cultural aspects of Hispanic populations will be discussed.

SPN2200  Intermediate Spanish 1 (AA)
3 credits (3 lecture hours)
Prerequisite: SPN1121 (with a grade of C or higher) or equivalent
Taught in Spanish, an in-depth analysis of grammar and composition with attention to pronunciation. Vocabulary building is emphasized along with written exercises and conversation. Appreciation of the life and culture of native speakers will be attained through lectures, reading and discussions about Hispanic nations. Honors credit available.

SPN2201  Intermediate Spanish 2 (AA)
3 credits (3 lecture hours)
Prerequisite: SPN1121 (with a grade of C or higher) or permission of department chair
This class is a continuation of SPN2200. Advanced grammar and composition are enhanced through translating, writing of creative themes and conversing. Appreciation of the life and culture of native speakers will be attained through lectures reading and discussions about Hispanic nations. Honors credit available.

SPN2240  Intermediate Conversational Spanish 1 (AA)
3 credits (3 lecture hours)
Prerequisite: SPN1121 (with a grade of C or higher) or equivalent
This interactive, communicative course aims to develop conversational skills and to build vocabulary in practical, relevant situations. It may be taken before or after SPN 2241. Cooperative learning and pair work is utilized. Honors credit available.

SPN2241  Intermediate Conversational Spanish 2 (AA)
3 credits (3 lecture hours)
Prerequisite: SPN1121 (with a grade of C or higher) or equivalent
This interactive, communicative course aims to develop conversational skills and to build vocabulary in practical, relevant situations. It may be taken before or after SPN2240. Cooperative learning and pair work is utilized. Honors credit available.

STA1021  Probability and Statistics (AA)
1 credits (1 lecture hours)
Prerequisites: MAT1033C (with a grade of C or higher) or appropriate placement scores or course completion required to enroll in this course.
STA1021 is a self-paced, one-hour credit module that covers such topics as permutations, combinations, measures of central tendency, standard deviation, and the normal curve.
STA2023  Statistics (AA)
3 credits (3 lecture hours)
Prerequisite: MAT1033C or MGF1106 (with a grade of C or higher) or appropriate placement scores or course completion required to enroll in this General Education course.
Topics include probability, random variables, hypothesis testing, confidence intervals, correlation, linear regression, small sample methods, and non-parametric statistics. (*)

STS0003  Introduction to Surgical Technology (PSAV)
96 clock hours
This course focuses on professional responsibilities, interpersonal relationships and communication skills for health care personnel in the preoperative setting. Included is legal and ethical responsibilities, the physical environment, safety issues, microbiology, and basic knowledge of OR equipment, supplies, and instrumentation. Liability insurance required.

STS0003L  Introduction to Clinical Practicum (PSAV)
48 clock hours
This lab course focuses on skill assessment for preparation to go to the clinical site. Students will be tested on the learned competencies to demonstrate proficiency as an entry level surgical technologist. Lab performance will include demonstration and performance in pharmacology related skills and other required competencies.

STS0005C  Principles of Asepsis (PSAV)
84 clock hours
This course focuses on aseptic technique and controlling microorganisms in the surgical environment through physical and chemical means by the use of sterilization, disinfectant or supplies, instruments and equipment in surgery. Other topics include: decontamination procedures of surgical instruments, the physical operating room and equipment.

STS0008  Pharmacology for the Surgical Technologist (PSAV)
48 clock hours
This course focuses on pharmacology specific to the operating room environment. This includes medications, classifications, drug handling and methods and techniques of anesthetic agents and equipment to deliver anesthesia.

STS0120  Surgical Specialties 1 (PSAV)
32 clock hours
This course is an introduction to various types of surgery and corresponding surgical anatomy. It includes procedure based anatomy, pathology, equipment, instrumentation, practical and post-operative considerations and operative preparation or the following services: diagnostic procedures, general surgery, plastic & reconstructive, obstetrics & gynecology services.

STS0121  Surgical Specialties 2 (PSAV)
32 clock hours
This course is an introduction to various types of surgery and corresponding surgical anatomy. It includes procedure based anatomy, pathology, equipment, instrumentation, practical and post-operative considerations and operative preparation for the following services: Plastic/Reconstructive, Peripheral Vascular, Cardio-Thoracic, Neurosurgery, Ophthalmic and Oral/Maxillofacial Surgery.

STS0150C  Surgical Technology Procedures (PSAV)
84 clock hours
This lab course is an introduction to the basic surgical technology skills with emphasis on instrumentation, supplies, operating room equipment and surgical procedures.

STS0155L  Operating Room Technique (PSAV)
96 clock hours
This lab course focuses on the role of the surgical technologist in the operating room. Included is surgical hand scrub, gowning and gloving, gowning and gloving another, patient positioning and transfer, instrument identification, preparing the surgical field, and suture materials.

STS0255L  Surgical Specialties 1 Clinical (PSAV)
0 clock hours
The purpose of this course is to utilize the student's knowledge of body structure and function, patient care, aseptic techniques, OR equipment, pharmacology, microbiology, and the surgical environment; and apply that knowledge to surgical procedures in the academic and clinical setting. The student will function in the lab as the surgical technologist in Diagnostics Procedures, General Surgery, Plastic and Reconstructive, Obstetrics, and Gynecology services.
STS0256L  Surgical Specialties 2 Clinical (PSAV)
0 clock hours
The purpose of this course is to utilize the student's knowledge of body structure and function, patient care, aseptic techniques, OR equipment, pharmacology, microbiology, and the surgical environment; and apply that knowledge to surgical procedures in the academic and clinical setting. The student will function in the lab as the surgical technologist in Genitourinary Surgery, Ophthalmic Surgery, and Orthopedic Surgery.

STS0805  Perioperative Anatomy and Medical Terminology (PSAV)
48 clock hours
This course focuses on anatomy and medical terminology specific to the operating room environment including review of body systems as it relates to surgical procedures and medical terminology by system.

STS0805L  Perioperative Anatomy Lab (PSAV)
48 clock hours
This lab course focuses on anatomy specific to the operating room environment. Including review of body systems as it relates to surgical procedures.

STS0949C  Clinical Practicum (PSAV)
0 clock hours
This course is a clinical practicum with an on-line component for delivery of exams, certification review and critical thinking exercises. An on-line based discussion group will be mandatory. The purpose of this course is to utilize the student's knowledge of body structure and function, patient care, aseptic techniques, OR equipment, pharmacology, microbiology, and the surgical environment; and apply that knowledge to surgical procedures in the clinical setting to prepare for transition into the workforce. The student will function as the surgical technologist in all services upon course completion.

SUR1101C  Surveying for Site Layout (AS)
3 credits (2 lecture hours, 2 lab hours)
Introduction to land surveying basics, including equipment and its care. Develop student ability to lay-out proposed new buildings on a construction site to assure building location, size and elevations are as shown on construction drawings.

SWS1102  Soils and Fertilizers (AS)
3 credits (3 lecture hours)
This course provides a study of soil characteristics, classifications, testing, and plant nutrition. Management of soils and amendments for specific horticultural purposes by understanding soil reaction and types and uses of fertilizers.

SYG1230  American Minorities Today (AA)
3 credits (3 lecture hours)
Explores historical and current principal minority groups in American life, tracing developments, contributions, values, character, heritage, social structure, etc., of each minority. Examines relations among ethnic and racial groups and general attitudes of mainstream Americans, focusing on ethnic prejudice, hostility, identity, solidarity and power movements. Demonstration of computer application is required. (*)

SYG1251  Cross-Cultural Communication (AA)
3 credits (3 lecture hours)
This course offers students an overview of topics related to cultural communication and understanding by introducing students to different cultures and language groups found in Florida. Students develop an awareness and understanding of the complexities surrounding language, culture, and learning in order to meet the needs of linguistically and culturally diverse learners.

SYG2000  Introduction to Sociology (AA)
3 credits (3 lecture hours)
Covers basic Sociological concepts and perspectives essential for understanding organized social life including emphasis on the sociological imagination, major theoretical perspectives, research methodology, culture, society, socialization, social interaction, social structure, social stratification, social institutions, demographics and social change. Demonstration of computer application is required. (*)

SYG2010  American Social Problems (AA)
3 credits (3 lecture hours)
Explores major social problems confronting American society including mental illness, crime, juvenile delinquency, economic insecurity, influences detrimental to family stability (divorce, alcoholism, gambling, drug addiction), race relations and related ethnic problems. Demonstration of computer application is required. (*)

SYG2361  Death and Dying (AA)
3 credits (3 lecture hours)
Examines issues and problems associated with death and dying resulting from changes in society encompassing grief, funeral practices, widowhood, suicide, life beyond death, moral and ethical issues.
SYG2430  Marriage and Family (AA)
3 credits (3 lecture hours)
This course provides students a standard core of basic theory and practical concepts essential for integrating what they have learned into their own personal and interpersonal relationships.

TAX2000  Federal Income Tax 1 (AS)
3 credits (3 lecture hours)
Prerequisite: ACG2022 or instructor permission required
Introduction to federal, state and local business taxes for students desiring an associate in science degree in Accounting Technology.

TAX2010  Federal Income Tax 2 (AS)
3 credits (3 lecture hours)
Prerequisite: TAX2000 or equivalent
This is a continuation of TAX2000, focusing on corporate income taxes. Also includes taxation of partnerships, estates and trusts and practice partnerships, estates and trusts and practice before the Internal Revenue Service.

THE1000  Theatre Appreciation (AA)
3 credits (3 lecture hours)
An introduction to: the art, business and history of theatre. The course is designed to increase the students understanding and appreciation of the work of the various artists engaged in creating theatre through a participatory approach. (*)

THE2051  Theater for a Children's Audience (AA)
3 credits (3 lecture hours)
This course provides knowledge to analyze the theory of children's theatre, to survey its development within the American community, and to peruse materials available for use with and for children.

THE2925-R  Play Production (AA)
1 credits (2 lab hours)
This course involves sessions and activities focusing on a specific theater topic. The topics may vary and are designed to enhance specific professional skills. Topics are selected based on what is new or currently relevant in the field. This course is repeatable for grade.

TPA1200  Stagecraft 1 (AA)
3 credits (3 lecture hours)
This course presents lectures and classroom demonstrations in the construction, painting, and handling of scenery, makeup and the making of properties. Crew hours are required.

TPA1211  Advanced Stagecraft (AA)
3 credits (3 lecture hours)
Prerequisite: TPA1200
This course provides knowledge with special emphasis on set design and of designing and executing model sets along with the principles of stage lighting in classroom demonstrations and experiences.

TPP1120-R  Improvisation for Actors (AA)
1 credits (2 lab hours)
Course is designed to teach the fundamentals of improvisations; the students then take those skills and apply them to "spot improv" performances in non-traditional venues for non-traditional audiences. The improv techniques are also used to create scenes in which they make statements about social problems and solutions.

TPP1600  Playwriting (AA)
3 credits (3 lecture hours)
This course is an introduction to the study, analysis and actual writing of plays for the theatre. Special emphasis is on the student developing skills in the technique of writing short scenes that stress creating characters, handling dialog and plot structure.

TPP2100  Acting 1 (AA)
3 credits (3 lecture hours)
Prerequisite: THE1000 (with a grade of C or higher) or special permission of the department chair
This course is a study of the fundamental principles and techniques of acting. Training in pantomime, stage movement, characterization and motivation is given. Students will present scenes from plays as classroom exercises.
TPP2111  Acting 2 (AA)  
3 credits (3 lecture hours)  
Prerequisite: TPP2100 or permission of department chair  
This course is a continuation of TPP 2100 with special emphasis on the various processes of developing characterization. The student also studies the script in depth to discover the relationships that affect the character. Students will study different methods of acting, and present monologues and scenes for stage performance.

TPP2190-R  Rehearsal and Performance 1 (AA)  
1 credits (2 lab hours)  
This course is designed to provide a hands-on experience in rehearsal and performance techniques used in professional production. Emphasis is on warm-up, reading, blocking, audience-actor relationships, incorporation of director's guidance, and the nuances of creating a character. This course is repeatable for grade.

TPP2300  Directing (AA)  
3 credits (3 lecture hours)  
Prerequisites: THE1000, TPP2100, TPA1200  
An investigation of the problems of choosing and analyzing scripts, casting, rehearsals, costuming, make-up, organization, and the management of the Educational Theatre.

TPP2514  Movement for the Theater (AA)  
3 credits (3 lecture hours)  
This course provides an introduction to the study, analysis, and application of various styles of movement required in theatrical productions. Special emphasis is on preparing the student to use physical characteristics appropriate for a play placed in a particular local and time. Study of body language, analysis of movement, types and rhythms of movement and pantomime will be included in the course.

TPP2700  Freeing the Actor's Voice (AA)  
3 credits (3 lecture hours)  
An academic study and practical application of the efficient and effective use of the breathing mechanism, as well as the speaking voice in accordance with physical movement, particularly in meeting the special demands of acting for the stage. A study of principles of good voice and articulation of general American speech, Standard British, American Southern, and other dialects as created in theatrical performance. The theories and principles of the course will be applied in written assignments, theatrical monologues before the class, and through vocal/physical exercises performed in class, and at home.

WOH1012  Ancient and Medieval History (AA)  
3 credits (3 lecture hours)  
Introduces theories of historical causation, origin of life in prehistoric times and emergence of early Mideastern and Mediterranean cultures in Mesopotamia, Egypt, Israel and Persia emphasizing Western civilization's roots in ancient Greece, Rome and medieval Europe to 1500 A.D., legacy of the East, the Byzantine and Islamic worlds.

WOH1022  Modern World History (AA)  
3 credits (3 lecture hours)  
This course is a continuation of WOH 1012. Introduces the birth of the modern age in intellectual (Renaissance), religious (Reformation), economic and navigational achievements of the period around 1500 and goes through the twentieth century emphasizing European civilization directly influencing American and modern world culture and increasing role and significance of Afro-Asian peoples.
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M.B.A., University of Massachusetts
Chief Information Officer

David Pena
Ph.D., Florida State University
Director, Library Learning Resource Center, Palm Beach State at Palm Beach Gardens

Carlos F. Ramos
M.S., Florida Atlantic University
Associate Dean, Academic Affairs, Palm Beach State at Lake Worth

Richard L. Reeder
M.S., National-Louis University
Associate Dean, Trade and Industry, Palm Beach State at Lake Worth

Sheila E. Scott-Lubin
M.Ed., Springfield College
Associate Dean, Academic Affairs, Palm Beach State at Lake Worth

Grace H. Truman
Ed.D., West Virginia University
Director, College Relations & Marketing

Robert J. Van Der Velde
J.D., Cleveland State University
Associate Dean, Academic Affairs, Palm Beach State at Palm Beach Gardens

Thomas Vo
B.S., Pennsylvania State University
Director, College Financial Aid

John T. Wasukanis
B.A., Lawrence Technological University
Director, Facilities

Nancy C. Zinser
M.S., Boston University
Associate Dean, Health Sciences, Palm Beach State at Lake Worth

Vacant
Associate Dean, Academic Affairs, Palm Beach State at Boca Raton

Vacant
Associate Dean, Academic Affairs, Palm Beach State at Boca Raton
Academic Faculty & Instructors

Abbondanza, David L.  M.A., Florida Atlantic University  Associate Professor, English
Abbondanza, Zalmond  M.S., Florida Atlantic University  Associate Professor, Mathematics
Aguila, Susan D.  M.A., Florida Atlantic University  Associate Professor, English
Aikhionbare, Victor E.  Ph.D., Texas Tech University  Professor III, Political Science
Allen, Robbie W.  M.A., University of South Florida  Librarian / Associate Professor, Library Learning Resource Center
Allen, Carolyn  M.S., Florida Atlantic University  Associate Professor, Biology
Alonso-Sheldon, Rita M.  B.A., Florida Atlantic University  Assistant Professor, Reading
Alvarado, Emmanuel  Ph.D., University of South Florida  Professor I, Library Learning Resource Center
Alvarez, Patricia S.  M.A., University of South Florida  Librarian / Associate Professor, Library Learning Resource Center
Ammons, Archie W.  Ph.D., Texas A&M University  Professor I, Biology
Anderson, Roxanna M.  Ph.D., New York University  Professor II, Psychology
Andric, Oleg  M.S., Florida Atlantic University  Associate Professor, Electrical Power Technology
Arango-Jaramillo, Silvio  Ph.D., University of Maryland  Professor III, Biology
Arbona, Maria F.  Psy.D., Caribbean Center for Advanced Studies  Professor III, Psychology
Archer, Kathleen E.  A.S., Sullivan University  PSAV Instructor, Medical Assisting
Aurelien, Louise  Ed.D., University of Florida  Professor III, Nursing
Aviles, Hernan O.  Ph.D., Indiana State University  Professor III, Biology
Bailey, Mary T.  M.S., Florida International University  Professor I, English for Academic Purposes
Baird, Diane S.  M.A., Florida Atlantic University  Associate Professor, English
Bang, Jang-Young  Ph.D., Indiana University at Bloomington  Professor II, Physical Science
Basant, Garfield A.  M.S., Nova Southeastern University  Associate Professor, Mathematics
Beck, Bruce M.  M.A., Florida Atlantic University  Associate Professor, English
Beilen, Mark A.  Certificate of Teaching, Precision Metal Work/Welding, State University of New York  PSAV Instructor, Welding
Benham, Timothy L.  M.A., Florida Atlantic University  Associate Professor, English
Bennett, Freddie L.  Ed.D., University of Utah  Professor III, Introduction to the College Experience
Beres, Debbie J.  M.B.A., Seton Hall University  Associate Professor, Business Administration
Berg, Jacquelynn R.  M.A.T., Stetson University  Professor II, English
Bergan, Nicholas J.  M.A., Florida State University  Associate Professor, Economics
Berry, Esther E.  Ed.D., Howard University  Professor III, Psychology
Berthiaume, Scott F.  M.A., University of Virginia  Associate Professor, Mathematics
Best, Latsy I.  M.S., Nova Southeastern University  Associate Professor, Biology
Biderman, Mary A.  Ph.D., Barry University  Professor II, Nursing (Baccalaureate Program)
Biferie, Michelle J.  M.A., Florida Atlantic University  Professor I, Speech Communications
Blair, E. Andrew  Ph.D., University of Florida  Professor I, Psychology
Blair, Roger B.  D.B.A., Nova Southeastern University  Professor II, Supervision & Management (Baccalaureate Program)
Boone, Jeannine S.  M.Ed., Florida Atlantic University  Associate Professor, Health Education
Boulware, Roy C.  M.S., Florida Atlantic University  Associate Professor, Mathematics
Bradshaw, Michael B.  Registered Electrical Contractor, State of Florida  PSAV Instructor, Electrical Technology
Bradshaw, Colleen M.  M.S., Nova Southeastern University  Associate Professor, Dental Hygiene
Braga, Patty A.  M.S., Nova Southeastern University  Associate Professor, Sonography
Brahlek, Steve J.  M.A., Northern Michigan University  Associate Professor, English
Brecker, Edward M.  D.C., Life University  Associate Professor, Biology
Brockway, Arthur J.  M.A., University of Miami  Associate Professor, English
Brown, Karen M.  J.D., Suffolk University  Professor III, Paralegal
Brown, Ralston S.  B.S., Southern Connecticut State University  Assistant Professor, Mathematics
Burkett, Gail G.  M.A., Trinity College  Associate Professor, Mathematics
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Affiliation</th>
<th>Position/Program</th>
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<tr>
<td>Bush, Christine W.</td>
<td>Ed.S., Nova Southeastern University</td>
<td>Professor I, Mathematics</td>
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<td>Butler, Reginald B.</td>
<td>M.S., Nova Southeastern University</td>
<td>Associate Professor, Mathematics</td>
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<td>Calabrese, Anthony M.</td>
<td>M.S., Nova Southeastern University</td>
<td>Associate Professor, Computer Science</td>
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<td>Cameron, Joanne F.</td>
<td>M.S., Florida State University</td>
<td>Librarian / Associate Professor, Library Learning Resource Center</td>
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<tr>
<td>Capers, Carol A.</td>
<td>Ph.D., University of Phoenix</td>
<td>Professor II, Management (Baccalaureate Program)</td>
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<td>Capute, Ronald A.</td>
<td>M.B.A., New York Institute of Technology</td>
<td>Associate Professor, Business Administration</td>
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<td>Cascio, Ted V.</td>
<td>Ph.D., University of Georgia</td>
<td>Professor I, Psychology</td>
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<td>Chambers, Lauren R.</td>
<td>Ph.D., University of Georgia</td>
<td>Professor I, English</td>
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<td>Chan, Kenny</td>
<td>M.S., Florida Atlantic University</td>
<td>Associate Professor, Mathematics</td>
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<td>Chance, Richard A.</td>
<td>M.A., Florida International University</td>
<td>Associate Professor, Information Management (Baccalaureate Program)</td>
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<td>Chandramohan, Sankaranarayana</td>
<td>Ph.D., University of Florida</td>
<td>Professor III, Biology</td>
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<td>Chernekoff, Carleton L.</td>
<td>B.A., University of Pittsburgh</td>
<td>Assistant Professor, English</td>
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<td>Chiachirico, Colette S.</td>
<td>A.S., Broward College</td>
<td>Assistant Professor, Health Information Management</td>
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<td>Childers, David C.</td>
<td>M.A., Central Michigan University</td>
<td>Associate Professor, Speech Communications</td>
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<td>Chow, Emma J.</td>
<td>M.S., Florida Atlantic University</td>
<td>Associate Professor, Chemistry</td>
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<td>Christensen, Cheryl S.</td>
<td>M.D., Universidad Iberoamericana</td>
<td>Professor I, Biology</td>
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<td>Ciucci, Tracy M.</td>
<td>M.A., Western Michigan University</td>
<td>Professor I, Health Education</td>
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<td>Clarke, Carol A.</td>
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<td>Clouse, Laura E.</td>
<td>M.A., DePaul University</td>
<td>Associate Professor, English</td>
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<td>Collins, Tina M.</td>
<td>M.S.N., Florida Atlantic University</td>
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<td>M.S., Florida Atlantic University</td>
<td>Professor I, Computer Science</td>
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<td>Cooper, Geoffrey A.</td>
<td>A.S., Palm Beach State College</td>
<td>PSAV Instructor, Firefighter Academy</td>
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<tr>
<td>Copeland, Deborah P.</td>
<td>Ph.D., Barry University</td>
<td>Professor III, Nursing</td>
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<td>M.L.S., Syracuse University</td>
<td>Librarian / Professor I, Library Learning Resource Center</td>
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<td>Cortez, Angelica M.</td>
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<td>A.A., Palm Beach State College</td>
<td>PSAV Instructor, Surgical Technology</td>
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<tr>
<td>Cox, Eugenia</td>
<td>Ph.D., All-Russian Scientific-Research Institute of Geophysical Prospecting Methods</td>
<td>Associate Professor, Mathematics</td>
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<td>M.A., Ball State University</td>
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<td>M.S.N., Florida Atlantic University</td>
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<td>Cuan, Omar J.</td>
<td>M.A., University of Miami</td>
<td>Associate Professor, History</td>
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<td>M.S., Utah State University</td>
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<td>M.A.C., Florida Atlantic University</td>
<td>Associate Professor, Accounting</td>
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<td>Ph.D., University of Idaho</td>
<td>Professor II, Chemistry</td>
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<td>M.A.C., University of Miami</td>
<td>Professor I, Accounting</td>
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<td>M.Ed., Florida Atlantic University</td>
<td>Associate Professor, Introduction to the College Experience</td>
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<td>De Beaufort, Jacques</td>
<td>M.F.A., California Institute of Arts</td>
<td>Associate Professor, Art</td>
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<td>Demarco, Sherrnett A.</td>
<td>M.S.N., Mercy College</td>
<td>Professor II, Nursing</td>
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<td>M.A., Appalachian State University</td>
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<td>Dennis, Michael H.</td>
<td>A.S., Benjamin Franklin Institute of Technology</td>
<td>PSAV Instructor, Automotive Service Technology</td>
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<td>Depalo, Hope</td>
<td>M.S.N., Florida Atlantic University</td>
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<td>Di Federico-Yates, Adina</td>
<td>Ph.D., Barry University</td>
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<td>Domnitch, Jay H.</td>
<td>M.S.T., Middle Tennessee State University</td>
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<td>Doran, Eileen C.</td>
<td>B.S., Palm Beach Atlantic University</td>
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<td>Duff, Suzanne M.</td>
<td>M.S., Palm Beach Atlantic University</td>
<td>Associate Professor, Human Services</td>
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<td>Duffey, Lydia A.</td>
<td>M.S., Independent University</td>
<td>Associate Professor, Dental Hygiene</td>
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<tr>
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<td>Duncan, David D.</td>
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<td>Professor II, English</td>
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<td>Duncombe, Tcherina</td>
<td>M.S., Florida Atlantic University</td>
<td>Professor I, Biology</td>
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<td>Ergood, Alyse H.</td>
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<td>Librarian / Associate Professor,</td>
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<td>Escoffery, Leonie I.</td>
<td>M.A., Florida Atlantic University</td>
<td>Associate Professor, Speech</td>
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<td>Espinosa, Zenaida I.</td>
<td>M.S., Florida State University</td>
<td>Associate Professor, Art</td>
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<td>Ph.D., Rush University</td>
<td>Professor III, Biology</td>
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<td>M.S., Nova Southeastern University</td>
<td>Professor I, Early Childhood</td>
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<td>Fazelpour, Alireza</td>
<td>M.S., Middle East Technical University</td>
<td>Professor II, Computer Science</td>
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<td>Feliciano, Nazare</td>
<td>Ph.D., Florida Atlantic University</td>
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<td>Finamore, Timothy R.</td>
<td>M.S., Florida Atlantic University</td>
<td>Substitute, Mathematics</td>
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<td>Findley, Brian W.</td>
<td>Ph.D., Florida Atlantic University</td>
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<td>Fine, Africa R.</td>
<td>M.A., Florida Atlantic University</td>
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<td>Fitzer, Raymond B.</td>
<td>B.A., Palm Beach Atlantic University</td>
<td>Adjunct Instructor, Criminal</td>
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<td>Fleming, Susan M.</td>
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<td>Cosmetology, Sheridan Technical</td>
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<td>Flynn, Kerry O.</td>
<td>M.S., Nova Southeastern University</td>
<td>Associate Professor, Dental</td>
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<td>Fontenot, Danny W.</td>
<td>B.S., Nova Southeastern University</td>
<td>Assistant Professor, Hospitality</td>
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<td>Frever, Trinna S.</td>
<td>Ph.D., Michigan State University</td>
<td>Professor III, English</td>
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<td>Frieary, Debra F.</td>
<td>A.A.S., Orange County Community College</td>
<td>PSAV Instructor, Practical Nursing</td>
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<td>Friedman, Paul L.</td>
<td>Ed.D., Nova Southeastern University</td>
<td>Professor III, Crime Scene</td>
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<td>Frishman, Stephen Z.</td>
<td>Ph.D., Wayne State University</td>
<td>Professor II, Speech Communications</td>
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<td>Froehlich, Trish</td>
<td>M.S., Long Island University</td>
<td>Professor I, Nutrition</td>
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<td>Gailey, Randy R.</td>
<td>M.Ed., Georgia Southern University</td>
<td>Associate Professor, Health</td>
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<td>Galvin, Mary E.</td>
<td>Ph.D., State University of New York</td>
<td>Professor I, English</td>
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<td>Garcia-Landry, Maria P.</td>
<td>M.S., Nova Southeastern University</td>
<td>Associate Professor, English</td>
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<td>Gaul, John H.</td>
<td>Ph.D., University of Illinois</td>
<td>Professor I, Chemistry</td>
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<td>Gaylord, Cory</td>
<td>D.N.Sc., University of Tennessee</td>
<td>Professor III, Nursing</td>
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<tr>
<td>Gent, Victor B.</td>
<td>J.D., University of Kansas</td>
<td>Professor I, Speech Communications</td>
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<td>Gharti-Chhetri, Gokarna B.</td>
<td>Ph.D., Vrije Universiteit, Belgium</td>
<td>Substitute, Biology</td>
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<td>Gibble, David L.</td>
<td>M.M., University of North Texas</td>
<td>Associate Professor, Music</td>
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<td>Gill, Sofia</td>
<td>M.B.A., Florida Institute of Technology</td>
<td>Associate Professor, Computer</td>
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<td>Gillan, Robert G.</td>
<td>M.B.A., University of Miami</td>
<td>Associate Professor, Business</td>
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<td>Goegelman, Cindy M.</td>
<td>M.S.N., Emory University</td>
<td>Associate Professor, Nursing</td>
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<td>Goldman, Barbara J.</td>
<td>M.S., Syracuse University</td>
<td>Associate Professor, Nutrition</td>
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<td>Goodman, Claude</td>
<td>Certificate of HVAC-R, Beaver County Area</td>
<td>PSAV Instructor, Air Conditioning</td>
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<td>Gordon, Jermaine A.</td>
<td>M.S., Florida Atlantic University</td>
<td>Associate Professor, Mathematics</td>
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<td>Gorgevsksa, Alexandra</td>
<td>Ph.D., Wayne State University</td>
<td>Professor II, Biochemistry</td>
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<td>D.B.A., Nova Southeastern University</td>
<td>Professor II, Business Administration (Baccalaureate Program)</td>
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<td>Grasso, Marie T.</td>
<td>M.S., Adelphia University</td>
<td>Associate Professor, Physics</td>
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<td>Grazioso, James T.</td>
<td>M.S., Nova Southeastern University</td>
<td>Associate Professor, Mathematics</td>
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<td>Greenwell, Sabrina M.</td>
<td>Ed.D., University of Central Florida</td>
<td>Professor II, Education</td>
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<td>Griffis, Rhonda L.</td>
<td>A.A., Palm Beach State College</td>
<td>PSAV Instructor, Cosmetology</td>
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<td>Gupta, Sapna</td>
<td>Ph.D., University of Toledo</td>
<td>Professor III, Organic Chemistry</td>
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<td>Haley, Gordon R.</td>
<td>D.B.A., Nova Southeastern University</td>
<td>Professor I, Management (Baccalaureate Program)</td>
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<td>Hamilton, Sheril D.</td>
<td>Certificate of Cosmetology, North Technical Education Center</td>
<td>PSAV Instructor, Cosmetology</td>
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<td>Hamlin, Monica L.</td>
<td>J.D., Florida State University</td>
<td>Professor I, Introduction to the</td>
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<td>Haney, Kanathy N.</td>
<td>M.S., Florida Atlantic University</td>
<td>Associate Professor, Health</td>
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<td>Harn, Harry M.</td>
<td>B.S., Nova Southeastern University</td>
<td>PSAV Instructor, Criminal Justice</td>
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</tbody>
</table>
Hartman, Wendy R.  M.S., Florida Atlantic University  Associate Professor, Biology
Hawkins, Bradley J.  M.B.A., Nova Southeastern University  Counselor / Associate Professor, Student Services
Heath, Laura A.  Ph.D., Florida Atlantic University  Professor III, Mathematics
Hendrix, Mark A.  M.A., University of Saint Thomas  Associate Professor, Introduction to the College Experience
High, Cary A.  J.D., University of Florida  Professor I, Paralegal
Hitchcock, Susan K.  M.S., University of Akron  Associate Professor, Mathematics
Hoban, Jeannie M.  M.S., Florida International University  Counselor / Associate Professor, Student Services
Hogan, Lisa A.  M.L.S., Dominican University  Librarian / Associate Professor, Library Learning Resource Center
Holmes-De Graw, Margaret M.  M.S.N., Columbia University  Professor I, Nursing
Holt, A. Roland  M.S., Georgia Institute of Technology  Associate Professor, Building Construction
Hopkins, Kristin M.  M.A., Suny College at Brockport  Associate Professor, Art
Horvath, Elizabeth I.  Ph.D., Florida Atlantic University  Professor II, Computer Science
Hyland, David A.  M.F.A., Ohio State University  Associate Professor, Theater and Film
Ivanova, Elka T.  Ph.D., Higher Attestation Commission  Professor III, Mathematics
Johnson, Charles W.  Certificate of General Automotive Mechanics, N.E. Bergen Technical Education Center  PSAV Instructor, Diesel Technology
Johnson, Bradley R.  M.F.A., University of Miami  Associate Professor, English
Joinson, Tracy  M.S., Florida State University  Counselor / Associate Professor, Student Services
Jones, Mark A.  J.D., University of Florida  Professor I, Criminal Justice
Jordan, Lilian R.  M.S., Florida Atlantic University  Professor II, Physics
Joseph, Mauvlette J.  M.A., Oxford Brookes University  Assistant Professor, Mathematics
Judd, Cynthia B.  M.S., University of Miami  Professor I, Chemistry
Juliste, Raymond  B.S., Auburn University  PSAV Instructor,
Kamucha, Kimberly  M.A., Florida Atlantic University  Adjunct Instructor, Speech Communications
Kass, Mitchell E.  Ph.D., City University of New York  Professor III, Sociology
Kelly, Marisha C.  M.S., Drexel University  LLRC Asst Dir / Assoc Professor, Library Learning Resource Center
Kent, Leslie N.  M.S., Florida Atlantic University  Professor II, Nursing
Kershner, Robert M.  M.D., University of Vermont  Professor III, Biology
Kevetos, Joyce A.  M.A., Central Connecticut State University  Associate Professor, Introduction to the College Experience
Kirby, Traci  B.S.N., Auburn University  PSAV Instructor, Practical Nursing
Klass, Traci M.  Ph.D., University of Florida  Professor II, English
Klauza, Matt D.  Ph.D., Auburn University  Professor II, English
Kline, Harold M.  M.S., Florida Atlantic University  Associate Professor, Computer Science
Knysh, Nataliya  M.S., Kharkiv State University  Associate Professor, Mathematics
Krull, Robert H.  M.S., Florida Atlantic University  Librarian / Associate Professor, Library Learning Resource Center
Ladika-Cipolla, Heidi M.  M.P.S., Lynn University  Associate Professor, Hospitality
Langston, Marie A.  M.Ed., Florida Atlantic University  Associate Professor, Mathematics
Larenas, Manuel R.  M.Ed., Florida Atlantic University  Associate Professor, Introduction to the College Experience
Larocca, Nicholas T.  M.A., Minnesota State University  Associate Professor, English
Larson, Holly A.  Ph.D., Florida Atlantic University  Professor II, English
Latimer, Nancy L.  Ph.D., Florida Atlantic University  Professor III, Respiratory Care
Latimer, Michael C.  M.S., Midwestern State University  Associate Professor, Radiography
Laurent, Jean D.  A.A., Broward College  PSAV Instructor, Heating, Ventilation, Air Conditioning & Refrigeration
Lazzara, Valerie M.  B.A., Florida Atlantic University  Assistant Professor, English
Liang, Lee Z.  M.S., Michigan State University  Associate Professor, Biology
Librun, Witny  M.S., Florida International University  Associate Professor, Mathematics
Lukacs, Olimpia K.  M.S.T., Florida Atlantic University  Associate Professor, Mathematics
Luma, Andrew E.  Ph.D., Texas Tech University  Professor III, Political Science
MacMullen, Michael J.  M.M., Arizona State University  Associate Professor, Music
Maclachlan, Shari L.  Ph.D., Florida Atlantic University  Professor III, Geography
Magwood, Joshua J.  A.S., Santa Fe Community College  PSAV Instructor, Welding
Manesh, Mike  M.S., Nova Southeastern University  Associate Professor, Mathematics
Marshall, Deborah J.  Ed.D., University of Florida  Professor III, Nursing (Baccalaureate Program)
Martin, Victoria R.  M.F.A., University of Miami  Professor I, Art
Martin, Tommy  M.S., Nova Southeastern University  Associate Professor, Computer Science
Martin, Sharon E.  M.A., University of West Florida  Associate Professor, Speech Communications
Marx, Lourdes I.  M.A., University of Florida  Professor I, English for Academic Purposes
Marzelli, Michael A.  M.A., University of Dayton  Associate Professor, English
Mason-Egan, Pamela D.  Ed.D., Hofstra University  Professor I, Introduction to the College Experience
Maxwell, Judy A.  B.S., Embry-Riddle Aeronautical University  Assistant Professor, Aeronautical Science
McDermott, Rachel M.  M.A., Florida Atlantic University  Associate Professor, English
Mccaulley, Judy A.  M.A., New York University  Associate Professor, Dental Hygiene
Mcclendon, Jyrece M.  M.S., Florida State University  Professor I, Introduction to the College Experience
Mcdonald, Patricia R.  M.A., Florida Atlantic University  Associate Professor, English
Mcdonald, Nancy D.  Ph.D., Florida Atlantic University  Professor II, English
Mcgaughey, Marilee S.  M.A., University of Tennessee  Associate Professor, Dental Hygiene
Mendez-Hasselman, Wendy  M.A., University of Colorado  Professor I, Foreign Language
Middleton, Sallie R.  Ph.D., Florida International University  Professor II, History
Miles, Michael T.  Ed.D., Nova Southeastern University  Professor III, Psychology
Miles, Jessica A.  Ph.D., Florida Atlantic University  Professor III, Environmental Science Technology
Miner, William H.  Ph.D., University of Texas  Professor I, Physics
Miquel, Louise C.  A.S., Palm Beach State College  Assistant Professor, Medical Transcription
Mkpong, Offiong E.  Ph.D., Ohio State University  Professor III, Biology
Montalban, Juana B.  Certificate of Cosmetology, Wilfred Academy Beauty School  PSAV Instructor, Cosmetology
Montalvo, Gladys  Ed.D., Nova Southeastern University  Professor III, Reading
Montonen, Jane M.  M.B.A., Florida Atlantic University  Professor I, Business Administration
Mukherjee, Eliana C.  M.A., Harvard University  Professor I, Education
Munro, Sophia I.  Ph.D., Florida Atlantic University  Professor III, Reading
Murcia, Jeanne A.  M.S., Fairleigh Dickinson University  Associate Professor, Computer Science
Myers, Kenneth R.  M.S., Florida State University  Librarian / Associate Professor, Library Learning Resource Center
Myslivecek, Paula R.  M.S., Queen’s University  Associate Professor, Health Education
Naylor, Heather J.  M.A., New York University  Professor I, Sociology
Neff, Daniel  A.S., Palm Beach State College  PSAV Instructor, Electrical Technology
Nixon, David H.  M.A., Florida Atlantic University  Associate Professor, English
O’Brien, Gerald T.  M.S., Mississippi State University  Associate Professor, Physical Science
O’Malley, Chasity B.  Ph.D., Tulane University  Professor I, Biology
Ocean, Mia  M.S.W., University of Michigan  Associate Professor, Human Services
Opritsa, Alex A.  M.S., Florida Atlantic University  Associate Professor, Mathematics
Osavio, June E.  M.S.N., University of Phoenix  Associate Professor, Nursing
Osterman, Patricia P.  M.A., Indiana University  Professor I, English
Pachtler, Marcie I.  M.A., Indiana State University  Associate Professor, Speech Communications
Pacovsky, Raymond S.  Ph.D., Michigan State University  Professor III, Biology
Paczkowski, William F.  J.D., Union College  Professor I, Business
Pannozzo, Pamela L.  J.D., University of South Carolina  Professor II, Biology
Parlamento, Stephanie H.  M.B.A., University of Central Florida  Associate Professor, Respiratory Care
Pate, Glenn L.  M.S., University of Kentucky  Associate Professor, Accounting
Patel, Dharmsinh P.  M.Arch., University of California  Associate Professor, Architecture
Peck, Edwin T.  M.A., New York University  Associate Professor, English
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<td>M.L.S., Mercer University</td>
<td>Professor I, History</td>
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<td>B.B.A., Oglethorpe University</td>
<td>Assistant Professor, EMS / Paramedic</td>
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<td>M.A., University of Wurzburg</td>
<td>Associate Professor, English</td>
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<td>Stashenko, Vetaley</td>
<td>Ph.D., National University of Life &amp; Environmental Sciences of Ukraine</td>
<td>Professor II, Biology</td>
<td>Biology</td>
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<td>Steff, Julia A.</td>
<td>B.S., Stephens College</td>
<td>Assistant Professor, Health Information Management</td>
<td>Health Information Management</td>
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<td>Stemle, Steven V.</td>
<td>M.S., Southern Illinois University</td>
<td>Associate Professor, Science, Earth/Physical</td>
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<td>Stephens, Sherry M.</td>
<td>M.F.A., Pratt Institute</td>
<td>Associate Professor, Art</td>
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<td>M.A., City University of New York</td>
<td>Associate Professor, English</td>
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<td>Storms, Timi A.</td>
<td>B.B.A., Northwood University</td>
<td>PSAV Instructor, Massage Therapy</td>
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<td>Professor I, Introduction to the College Experience</td>
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<td>D.H.Sc., A.T. Still University of Health Sciences</td>
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