

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

FA - Possible Financial Aid Action Warranted

I. Approval of January 15, 2015 Minutes

Discussion: None

Data sources consulted: Minutes

Action: Motion to approve: E. Horvath; 2nd: V. Slesinger

APPROVED

II. For Your Information

CCE/Avocation Course Action January 9th through January 23, 2015

| New Avocational and CCE Courses | Title | Clock Hours |
|---------------------------------|-----------------------------------|-------------|
| TIO0656 | Welding NCCER – Advanced Aluminum | 160 |

| Revised Avocational and CCE Courses | Title | Changes |
|-------------------------------------|---|---|
| HEO0106 | Child Care 1 st Aid and CPR | Change course title to Child Care First Aid and CPR; Revised course description. |
| POO0093 | Case Preparation and Courtroom Presentation | Reactivate course; Revise course description. |
| TIO0650 | NCCER Core Craft Support | Reactivate course; Change course title to <i>Construction Craft Skills Intro NCCER Core</i> ; Revise course description. |
| TIO0653 | Welding NCCER | Reactivate course; Change course title to <i>Welding NCCER – Level One</i> ; Change clock hours from 390 to 300; Remove \$2,550 special fee; Revise course description. |

Minutes Corrections

11/20/15 IV.D. The correct title for the new Cisco CCNA Security CCC (6540) is Cisco Certified Network Associate (CCNA) Security CCC.

1/15/15 IV. D. EDG1314 Education Practicum 1- Prereq statement should read “Completion of all required course in an Early Childhood Education College Credit Certificate or AS degree.”

1/15/15 IV. E. 1. The Cisco Certified Network Associate (CCNA) CCC (6135) should be titled Cisco Certified Network Associate (CCNA) Router and Switching CCC. This title was listed in the paperwork but not reflected in the minutes.

III. Old Business

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

IV. New Business

Credits/Clock Hours

A. AA Courses

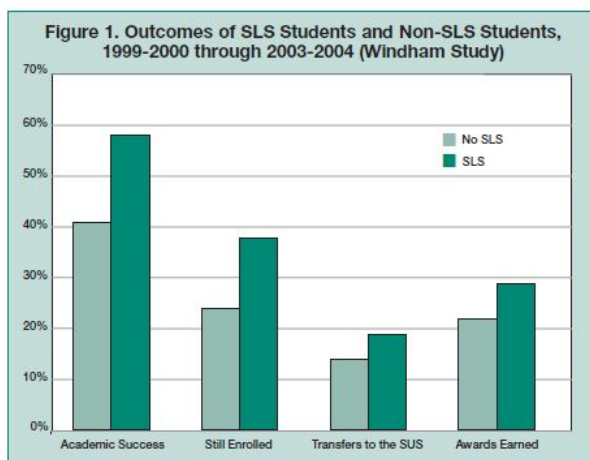
New Course

Effective August 2015

SLS 1201 Personal Development (3 credits, 3 lecture hours, no pre/corequisites, AW grading system, no special fees) 3

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

Justification: Currently at Palm Beach State College we have several SLS (Student Life Skills) courses including, SLS1501 Introduction to the College Experience, SLS1301 Career Development, and SLS1303 Job Search. Our First Year Experience course, SLS1501 (Introduction to the College Experience) is required of all incoming first time in college students. All FTIC students must enroll in SLS1501 which is designed to support students as they transition to the college. We believe there is tremendous value in creating and offering more SLS or “Student Success” courses with varied content for the college. Research by the Florida Department of Education (2006) has shown that students who take Student Life Skills (SLS) courses or “student success” courses are more likely to earn a community college degree, transfer to the state university system, or remain enrolled in college. Please see Figure 1 below.



SLS1201 Personal Development is an empowerment and transformative course designed to further support student retention, success, and graduation. Other Florida colleges and universities including Valencia College, Florida State University, and Florida Gulf Coast University offer SLS1201-Personal Development as part of the Bridges to Success program (at Valencia College) and other student success initiatives. In addition, just about all of the 28 colleges/universities in the Florida state system offer a variety of SLS courses including Personal Development, Creative Life Skills, College Survival Skills, Career Development, Critical Thinking, Selected Topics in Student Life Skills, etc.

Nation-wide many of our most prestigious universities including University of California at Berkley, Harvard University, and University of Pennsylvania have developed courses on personal development—As a side note, many of these courses are the most popular of all courses taught at those colleges and universities. We believe there is both a need and a demand for more student success courses at Palm Beach State College as it is part of our mission to support students’ academic and personal growth.

Discussion: Pamela Mason-Eagan shared that the cluster wanted to create an AA elective course to focus on student self-exploration and application of personal career development in an expansion of existing SLS course offerings. This course would cover learning styles, life-long learning, goals, personal responsibility, and development of a life plan (versus an educational plan). It would assist students in how to deal with the college experience, and balance that with other activities in their college career. Other schools in the state offer this course and it is shown to support student retention. Committee members posed a question on how this AA elective course might hinder students in taking needed requirements for specific programs within the AA degree due to the limitation of the AA degree. Professor Mason Eagan stated that though this course would not be a prereq to any particular program, students would be advised if their current educational plans allow for enrollment in this course. This course does not satisfy specific elective credits for many AA programs (example: architecture at 65 specific AA course credits) but there are many other AA programs that would allow elective credit where this course could apply. Committee asked what enrollment was on the other SLS courses offered at the College. Dr. Pedersen indicated that enrollment was small; that in many cases students take these one credit courses to complete credit needs for the AA degree. Committee members questioned whether this course could be combined with SLS1301 and SLS1302 as one course for three credits since the topics all seem to fit together. Professor Eagan indicated that the cluster had not considered this course configuration. This course would generally be taken in a student’s sophomore year after taking SLS 1501 when their education plan would be developed. This course development was considered to give students an opportunity to enroll in a course on this subject; students are ultimately responsible for their course selection.

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

Data sources consulted: Curriculum Support Documents

Action: Motion to approve-V. Slesinger; 2nd: H. Poinciano

APPROVED

B. Developmental Education Courses

New Course

Effective August 2015

| | |
|---|---|
| EAP 0388 Integrated Speech and Grammar (4 developmental education credits, 4 lecture hours, no pre/corequisites, AN grading, LOEP (Level of English Proficiency) test scores 71-85) | 4 |
| EAP 0400 Speaking and Listening 1 (3 developmental education credits, 3 lecture hours, LOEP test scores, AN grading, prerequisite test scores 86-95) | 3 |
| EAP 1500 Speaking and Listening 2 (3 AA credits, 3 lecture hours, LOEP test scores, prerequisite EAP0400 or LOEP Test scores 96-105, AW grading) | 3 |
| EAP 1600 Advanced Speaking and Listening (3 AA credits, 3 lecture hours, prerequisite of EAP1500 or test scores, LOEP test scores 106-115, AW grading) | 3 |

Revised Course

Effective August 2015

| | |
|--|---|
| EAP 0382 Integrated Reading and Writing (changing testing to LOEP (Level of English Proficiency) test scores, prerequisite LOEP test scores 71-85) | 4 |
|--|---|

Justification: **EAP 0382** - Based on data from the testing center provided by Debra Jackson, the College is showing a loss of roughly 1500 students who are turned away for various reasons. For example, they place into the foundation program, but these courses are no longer offered. **EAP 0388** - Data from testing center indicate roughly 1500 potential EAP students are turned away because there are no English courses offered at their levels. In addition, international students on F1 visas who test below the required level are placed into higher-level coursework than they require. In order to retain and support these students the cluster is proposing new and reactivated coursework for the program. **EAP 0400 and EAP 1500** - The cluster discussed program revision based on the number of students who have been turned away and the needs of the international student population. This is a follow-up to the discussion had with Francklin Laborde, Ed Mueller, Ginger Pedersen, and Susan Bierster, **EAP 1600** - International students on F1 visas who test below the required level are placed into higher-level coursework than they require. In order to retain and support these students the cluster is proposing new and reactivated coursework for the program. In addition, an advanced course in Listening and Speaking will be available and helpful for second language students at all levels who need help with oral communication skills.

Discussion: Shelly Hedstrom stated that over the last 15 years, ESL students have evolved and it has emerged that two populations have been neglected in this time period-international students and local immigrant students who did not go to US high schools; these groups need coursework and are going elsewhere. The courses being developed are for those international students who need help linguistically and need courses to keep the required full load to study at PBSC and local immigrants that the College would like to attract and retain. The courses proposed are lower level reading, writing and grammar courses that were offered at the College which have been revised as well as speaking and listening courses to meet the needs of those population that have been neglected. Committee members asked about the assessment that would be used to place students in these classes. Professor Hedstrom indicated that the cluster voted to use the LOEP versus the COMPASS test since it was decided to be a better fit to the needs of the population being assessed. When asked, Professor Hedstrom indicated that students can take these EAP courses alongside of regular credit courses within the student's chosen programs.

Data sources consulted: Curriculum Support Documents

Action: Motion to approve: V. Slesinger; 2nd: D. Singer

APPROVED

C. Business and Office Administration

Paralegal AS

Revised Course

Effective August 2015

| | |
|---|---|
| PLA 1104 Legal Writing and Research 1(Add prerequisite of ENC1101 and pre/corequisite of PLA1103) | 3 |
| PLA 1273 Tort Law (Add pre/corequisite of PLA1003) | 3 |
| PLA 1949C Co-op Legal Assistant 1 (Add prerequisite of PLA1003, PLA1104, PLA2209, and faculty approval) | 3 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | |
|----------|--|---|
| PLA 2209 | Court Systems: Procedures and Pleadings 1(Add pre /corequisite of PLA 1003) | 3 |
| PLA 2465 | Bankruptcy Law and Procedure (Add pre /corequisite of PLA1003) | 2 |
| PLA 2483 | Administrative Law (Add pre /corequisite of PLA1003) | 3 |
| PLA 2600 | Administration of Estates (Add pre /corequisite of PLA1003) | 3 |
| PLA 2611 | Real Estate Law and Property Transactions (Add pre /corequisite of PLA1003) | 3 |
| PLA 2762 | Paralegal Office Systems (Change title to Law Office Management; add pre /corequisite of PLA1003) | 3 |
| PLA 2800 | Family Law (Add pre /corequisite of PLA1003) | 3 |
| PLA 2841 | Immigration Law and Procedures (Add pre /corequisite of PLA1003) | 3 |

Justification: All courses The curriculum action is necessary comply with America Bar Association recommendations regarding course sequencing and to ensure necessary course training and competencies are met before a student can enroll in these courses. **PLA2762** The current course name is misleading and does not correctly reflect the course content or learning objectives. Additionally, the course name change is likely necessary to comply with anticipated standards required for Palm Beach State College paralegal program's ABA approval.

Discussion: Cary High reiterated the reasons given for the addition of PLA1003 Introduction to Paralegalism to all courses within the Paralegal AS degree. The addition ENC1101 College Composition 1 will be added to PLA1104 since the course competencies requires at least a basic level of college writing skills. PLA1949C is essentially an externship course and should be taken at the end of the AS degree and so the prerequisites are being set up for this purpose. Finally, the name of PLA2762 is being changed to better reflect the content and learning outcomes of the course. Committee members asked for clarification on the “and faculty approval” as a prerequisite for PLA1949C. Professor High stated that the program wanted to keep this statement in place so that students can be advised as to whether they are ready to go out into the work place. Dr. Pedersen pointed out that this statement can be added but the Panthern system does not monitor it during registration; this would need to be monitored by the department and Professor High agreed that this will be done. Dr. Pedersen also pointed out that the corequisites should be listed as **pre**/corequisites so that students would not be forced to take all the courses at once by Panthern. Professor High agreed that this had been the intent of the program in these additions. A motion was made to change these corequisites to “pre/corequisites.”

Data sources consulted: Curriculum Support Documents

Action: Motion to approve: E. Horvath; 2nd: V. Slesinger; 2nd motion to approve course revisions as corrected: E. Horvath; 2nd: V. Stashenko

APPROVED

D. Computer Science and Information Technology

Networking Administrator AS

New Course

Effective January 2015

(All three new courses are part of the Information Security and CCNA Security CCCs developed in 11/20/14 CC Minutes)

| | |
|--|---|
| CNT 2XXX Security Essentials (3 credits, 3 lecture contact hours, AW grading, pre/corequisite CGS1100, \$45 special fee) | 3 |
| CTS 2XXX Attack Prevention and Detection (3 credit, lecture course, AW grading, prerequisite of CNT2000, \$45 special fee) | 3 |
| CTS 2XXX Router and Switcher Security (3 credits, 3 lecture hours, AW Grading, prerequisite CTS2651, \$25 special fee) | 3 |

New Program

Effective August 2015

Cisco Certified Entry Network Technician (CCENT) CCC (CIP 0511100114, 15 credits, articulates into Networking Administrator AS degree, all existing courses)

| | |
|---|----|
| Cisco Certified Entry Network Technician (CCENT) CCC (CIP 0511100114) | |
| CGS 1100 Microcomputer Applications | 3 |
| CNT 2000 Network Technologies | 3 |
| CTS 2301 UNIX Installation and Administration Using LINUX | 3 |
| CTS 1650 Cisco Networking 1 | 3 |
| CTS 2651 Cisco Networking 2 | 3 |
| TOTAL | 15 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

Justification: **CNT2XXX** New course for XCEL-IT Grant Information Security CCC The student will receive a comprehensive overview of the need for security, planning for security, risk management, security technologies, and security and personnel. (January 2015 –required of grant. To be offer in 12 week term.) **CTS2XXX** New course for XCEL-IT Grant Information Security CCC. This course will provide students with basic beginning training on combating some cyber security threats. (January 2015 –required of grant. To be offer in 12 week term.) **CTS2YYY** New course for XCEL-IT Grant new College Credit Certificate in Cisco CCNA Security program. This course provides students with skills necessary to understand security threats in network infrastructure and secure routers, switches, and other security appliances in a small to medium-sized networks. **CCENT CCC** This new College Credit Certificate in Cisco Certified Entry Network Technician or CCENT makes our existing Cisco Academy curriculum aligned with new changes that Cisco implemented in response to job market and industry demands for entry-level professional in the field of network infrastructure. The proposed CCENT CCC helps students prepare for entry-level networking career opportunities using routers and switches in small- to medium-sized organizations.

Discussion: Elizabeth Horvath reviewed the justifications for the development of these courses tied to new CCCs for XCEL-IT Grant. The new CCENT CCC was developed because of a change in the CISCO certification standards. Dr. Pedersen asked where these courses would be taught and Dr. Horvath indicated they would be taught in the existing Networking rooms where other CISCO courses are taught and have room to offer them. A committee member asked why the fee structure was different for each class (\$45, \$45, and \$25). Dr. Horvath indicated that when the courses were developed, the possible purchase of new and replacement hardware and software was factored into special fees. Dr. Pedersen stated that the special fee approval process is a separate process from the curriculum process that is monitored by the College auditors. Recently for the first time we had a 100% question free audit of our fee process, so even though it is outside the curriculum process, the fees are broken down and scrutinized before final approval.

Data sources consulted: Curriculum Support Documents

Action: Motion to approve: V. Stashenko; 2nd: V. Slesinger

APPROVED

E. Health Sciences

Dental Assisting PSAV

New Courses

Effective August 2015

| Crs ID | Title | Pre/Co | Med Accident | Replace | Clock Hours |
|---------------|---|---------------|---------------------|----------------|--------------------|
| DEA 0137 | Oral, Head and Neck Anatomy | NA | No | DES1020 | 48 |
| DEA 0744 | Dental Materials | C-DEA0744L | No | DES1100 | 32 |
| DEA 0744L | Dental Materials Lab | C-DEA0744 | Med Acc | DES1100L | 32 |
| DEA 0746 | Dental Office Emergencies | NA | No | DES1600 | 16 |
| DEA 0755 | Dental Radiology | C-DEA0755L | No | DES1200 | 32 |
| DEA 0755L | Dental Radiology Lab | C-DEA0755 | Med Acc | DES1200L | 32 |
| DEA 0758 | Introduction to Clinical Procedures | C-DEA0758L | No | DES1800 | 48 |
| DEA 0758L | Introduction to Clinical Procedures Lab | C-DEA0758 | Med Acc | DES1800L | 32 |

Effective January 2016

| Crs ID | Title | Pre/Co | Med Acc/Liab | Replace | Clock Hours |
|---------------|------------------------|---------------|---------------------|----------------|--------------------|
| DEA 0743 | Preventive Dentistry | NA | No | DES1840 | 32 |
| DEA 0747 | Office Management | NA | No | DES2502 | 16 |
| DEA 0757 | Expanded Functions | C-DEA0757L | No | DES1832 | 16 |
| DEA 0757L | Expanded Functions Lab | C-DEA0757 | Med Acc | DES1832L | 32 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

Revised Courses

| Crs ID | Title | Changes | Effective Dates | Clock Hours |
|-----------|-------------------------|--------------------------------------|------------------------------|-------------|
| DEA 0801L | Clinical Practice 2 Lab | Decrease clock hours from 256 to 192 | January 2016 (2016-2) | 256 |
| DEA 0850L | Clinical Practice 3 Lab | Increase clock hours from 128 to 310 | May 2016 (2016-3) | 128 |
| DEA 0940L | Dental Practicum 2 Lab | Decrease clock hours from 96 to 64 | January 2016 (2016-2) | 96 |

Deleted Courses

| Crs ID | Title | Last Term Offered | Credits |
|----------|---|-----------------------------|---------|
| DES1020 | DES 1020 Dental Anatomy | May 2015 (2015-3) | 3 |
| DES1200L | DES 1200L Dental Radiology Lab | May 2015 (2015-3) | 1 |
| DES1600 | DES 1600 Office Emergencies | May 2015 (2015-3) | 1 |
| DES1800L | DES 1800L Introduction to Clinical Procedures Lab | May 2015 (2015-3) | 1 |
| DES1100 | DES 1100 Dental Materials | May 2015 (2015-3) | 2 |
| DES1100L | DES 1100L Dental Materials Lab | May 2015 (2015-3) | 1 |
| DES1832 | DES 1832 Expanded Functions Lecture | May 2015 (2015-3) | 1 |
| DES2502 | DES 2502 Office Management | May 2015 (2015-3) | 1 |
| DES1200 | DES 1200 Dental Radiology | August 2015 (2016-1) | 2 |
| DES1800 | DES 1800 Introduction to Clinical Procedures | August 2015 (2016-1) | 3 |
| DES1832L | DES 1832L Expanded Functions Lab | August 2015 (2016-1) | 1 |
| DES1840 | DES 1840 Preventive Dentistry | August 2015 (2016-1) | 2 |

Revised Program

Effective August 2015

| Current | Proposed |
|---|--|
| Dental Assisting PSAV 5155 | Dental Assisting PSAV 5155 |
| REQUIRED COURSES CREDIT hours/voc. credits | REQUIRED COURSES Clock Hours |
| DES 1020 Dental Anatomy* 3/0 | DEA 0137 Oral, Head and Neck Anatomy 48 |
| DES 1200 Dental Radiology* 2/0 | DEA 0755 Dental Radiology 32 |
| DES 1200L Dental Radiology Lab* 1/0 | DEA 0755L Dental Radiology Lab 32 |
| DES 1600 Office Emergencies* 1/0 | DEA 0746 Dental Office Emergencies 16 |
| DES 1800 Introduction to Clinical Procedures* 3/0 | DEA 0758 Introduction to Clinical Procedures 48 |
| DES 1800L Introduction to Clinical Procedures Lab* 1/0 | DEA 0758L Introduction to Clinical Procedures Lab 32 |
| DES 1100 Dental Materials* 2/0 | DEA 0744 Dental Materials 32 |
| DES 1100L Dental Materials Lab* 1/0 | DEA 0744L Dental Materials Lab 32 |
| DES 1832 Expanded Functions Lecture* 1/0 | DEA 0757 Expanded Functions 16 |
| DES 1832L Expanded Functions Lab* 1/0 | DEA 0757L Expanded Functions Lab 32 |
| DES 1840 Preventive Dentistry* 2/0 | DEA 0743 Preventive Dentistry 32 |
| DES 2502 Office Management* 1/0 | DEA 0747 Office Management 16 |
| DEA 0130 Related Dental Theory 0/4 | DEA 0130 Related Dental Theory 32 |
| DEA 0800 Clinical Practice 1 0/4 | DEA 0800 Clinical Practice 1 32 |
| DEA 0800L Clinical Practice 1 Lab 0/4 | DEA 0800L Clinical Practice 1 Lab 128 |
| DEA 0940L Dental Practicum 1 Lab 0/4 | DEA 0940L Dental Practicum 1 Lab 24 |
| DEA 0153 Dental Psychology and Communication 0/4 | DEA 0153 Dental Psychology and Communication 32 |
| DEA 0801 Clinical Practice 2 0/4 | DEA 0801 Clinical Practice 2 32 |
| DEA 0801L Clinical Practice 2 Lab 0/8 | DEA 0801L Clinical Practice 2 Lab 192 |
| DEA 0941L Dental Practicum 2 Lab 0/3 | DEA 0941L Dental Practicum 2 Lab 96 |
| DEA 0850 Dental Assisting Clinical Practice 3 0/4 | DEA 0850 Dental Assisting Clinical Practice 3 16 |
| DEA 0850L Clinical Practice 3 Lab 0/4 | DEA 0850L Clinical Practice 3 Lab 310 |
| Total Program Credits/Voc Credits 19/25 | Total Program Clock Hours 1230 |
| <i>*This course articulates with the Palm Beach State Dental Hygiene Program.</i> | |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

Justification: All New DEA PSAV Courses: The Dental Assisting Program is composed of DES college credit courses and DEA PSAV clock hour courses. A new federal regulation prevents students from receiving financial aid in the same term for both credit and non-credit classes. Therefore it is necessary for the DES courses to be converted into PSAV clock hour courses. **DEA 0801L, DEA0850L and DEA 0940L:** Due to ADA CODA revised Standard 2.21 effective January 2014, the students are required to have a minimum of 300 hours clinical experience. These clinical hours must be offered at the end of the program; after students receive basic clinical instruction. The program currently includes 128 Externship hours. Therefore, 172 hours will be needed to meet this requirement.

Discussion: Colleen Bradshaw reviewed the justification for the new, revised and deleted courses for the Dental Assisting PSAV program. In order to comply with the accrediting recommendations, the program will be expanded to an 11 month Program.

Data sources consulted: Curriculum Support Documents

Action: Motion to approve: D. Singer; 2nd: K. Hopkins

APPROVED

F. Trade and Industry

1. Diesel Technology 1 PSAV

Revised Course

Effective May 2015 (20153)

| | | |
|----------|---|-----|
| DIM 0007 | Heavy Truck Brake Systems 1 (Removed prerequisite of DIM0303; keep corequisite listings) | 150 |
| DIM 0302 | Diesel Electrical and Electronic Systems 1 (Remove prerequisite of DIM0006; keep corequisite listing) | 150 |

Justification: DIM 0007 - Instructor experience has shown that the issue of a pre-req for a course other than the first and last course in the program really isn't necessary. This action removes the pre-req. A by-product of this solves an issue which didn't allow a student to register for all his classes in a term (without an override). As a result the student will now be eligible for a financial aid status of full time. **DIM 0302-** Prior to 2011, the sequence for Diesel Tech courses were Diesel Engines 1 & 2, followed by Diesel Electrical 1 & 2. Diesel Engines 2 was established as a pre-req for Diesel Electrical 1. It was determined by the Program Director that Electrical 1 should be run immediately following Diesel 1, because of the some electrical knowledge needed in the engine class. This change allows for the pre-req to be removed from Diesel Engines 2, because we changed the order of the courses to be Diesel Engines 1, Diesel Electrical 1, Diesel Engines 2 and Diesel Electrical 2.

Discussion: Eligio Marquez Veray explained that the changes to prerequisites for these courses were done so that students would have a better understanding of the diesel electrical systems prior to completing brake systems. This change will also allow students to be full-time students and eligible for financial aid.

Data sources consulted: Curriculum Support Documents

Action: Motion to approve-V. Slesinger; 2nd: M. Tiggle

APPROVED

PRIOR TO ITEM IV.F.2. ON THE AGENDA, THE ATTENDANCE DROPPED BELOW QUORUM. ANOTHER MEMBER WAS CONTACTED AND CALLED INTO THE MEETING TO MEET QUORUM FOR THE REMAINDER OF THE VOTING ITEMS.

2. Aeronautical Science AS

Revised Courses

Effective August 2015

| | | |
|----------|--|---|
| ASC 1101 | Aero-Navigation (AS) (Revise course description and learning outcomes, remove "PP" special designator) | 3 |
| ASC 1210 | Aero-Meteorology (AS) (Remove "PP" special designator) | 3 |
| ASC 1310 | Aero-Safety and Regulations (AS) (Remove "PP" special designator) | 3 |
| ASC 1640 | Propulsion Systems (AS) (Revise course description, remove "PP" special designator) | 3 |
| ASC 2550 | Aerodynamics (AS) (Revise course description, remove "PP" special designator) | 3 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | |
|------------|--|----|
| ATF 1111C | Private Pilot Flight 1 - Airplane (AS) (Remove DE designator, revise course description.) | 2 |
| ATF 1112C | Private Pilot Flight 2 - Airplane (AS) (Add pre/coreq of ATT1100 with a grade of C or higher to CD panel, add PP designator, revise course description.) | 2 |
| ATF 1140C | Private Pilot Flight 1 - Helicopter (AS) (Revise course description) | 2 |
| ATF 1142C | Private Pilot Flight 2 - Helicopter (AS) (Add pre/coreq of ATT1100 with a grade of C or higher to CD panel, add PP special designator, revise course description) | 2 |
| ATF 1150LA | Flight Lab 1 - Airplane (AS) (Add pre/coreq of ATF1602C with a grade of C or higher to CD panel and prereq statement, remove AAS, and old CCC and AS control access codes from CD panel, revised course description) | .5 |
| ATF 1150LB | Flight Lab 1 - Airplane (AS) (Add pre/coreq of ATF1602C with a grade of C or higher to CD panel and prereq statement, remove AAS and old CCC and AS control access codes from CD panel, revised course description) | .5 |
| ATF 1342L | Flight Lab 1 - Helicopter (AS) (Add pre/coreq of ATF1602C with a grade of C or higher to CD panel and prereq statement and revise course description) | 1 |
| ATF 1602C | Flight Simulator (AS) (Remove AAS and old CCC and AS control access codes from CD panel, Remove PERT statement from prereq statement, revise course description) | 3 |
| ATF 2204C | Commercial Pilot Flight - Airplane (AS) (Add prereq of ATT2110 to CD panel, revise prereq statement, remove AAS and old CCC and AS control access codes from CD panel, remove DE special designator, revise course description) | 2 |
| ATF 2231C | Commercial Pilot Flight 1 Additional Rating - Airplane (AS) (Add "department chair permission required" to prereq panel, revise course description) | 2 |
| ATF 2232C | Commercial Pilot Flight 2 Additional Rating - Airplane (AS) (Add "department chair permission required" to prereq statement, revise course description) | 2 |
| ATF 2240L | Flight Lab 2 - Helicopter (AS) (Remove AAS and old CCC and AS control access codes from CD panel and revise course description) | 1 |
| ATF 2241C | Commercial Pilot Flight - Helicopter (AS) (Change ATT2110 from coreq to prereq only on CD and prereq statement, remove AAS and old CCC and AS control access codes from CD panel, revise course description) | 2 |
| ATF 2242L | Commercial Pilot External Load Flight - Helicopter (AS) (Add "department chair permission required" to prereq statement, remove AAS and old CCC and AS control access codes; add 2197A to control access codes on CD panel, revise course description) | 1 |
| ATF 2243 | Commercial Pilot Turbine Flight - Helicopter (AS) (Add "department chair permission required" to prereq statement, remove AAS and old CCC and AS control access codes; add 2197A to control access codes on CD panel, revise course description) | 1 |
| ATF 2244L | Commercial Pilot Night Vision Goggles Flight - Helicopter (AS) (Add "department chair permission required" to prereq statement, remove AAS and old CCC and AS control access codes; add 2197A to control access codes on CD panel, revise course description) | 1 |
| ATF 2245C | Commercial Pilot Flight 1 Additional Rating - Helicopter (AS) (Add "department chair permission required" to prereq statement, revise course description) | 2 |
| ATF 2246C | Commercial Pilot Flight 2 Additional Rating - Helicopter (AS) (Add "department chair permission required" to prereq statement, revise course description) | 2 |
| ATF 2250L | Flight Lab 2 - Airplane (AS) (Remove AAS and old CCC and AS control access codes from CD panel, revise prereq statement and course description) | 1 |
| ATF 2300 | Instrument Rating Flight 1 - Airplane (AS) (Add pre/coreq of ATF1602C with grade of C or higher to CD panel and prereq statement, change ATT2110 to prereq, remove AAS and old CCC and AS access codes from CD panel, remove DE special designator from CD panel, revise course description) | 2 |
| ATF 2302L | Instrument Rating Flight 2 - Airplane (AS) (Add pre/coreq of ATF1602C with a grade of C or higher to CD panel and prereq statement, remove AAS and old CCC and AS access codes from CD panel, add IA designator to CD panel, revise course description) | 1 |
| ATF 2340 | Instrument Rating Flight 1 - Helicopter (AS) 2 (Change ATT2120 from coreq to prereq only, remove AAS and old CCC and AS control access codes from CD panel, revise course descriptions) | 2 |
| ATF 2341L | Instrument Rating Flight 2 - Helicopter (AS) (Remove AAS and old AS control access codes from CD panel, add IH special designator to CD panel, revise course description) | 1 |
| ATF 2400L | Commercial Pilot Multi-Engine Flight - Airplane (AS) (Add "department chair permission required" to prereq statement, remove AAS and old CCC and AS control access codes; add 2197H control access code to CD panel, revise course description) | 1 |
| ATF 2500C | Flight Instructor (Initial CFI) Flight - Airplane (AS) (Change ATT2131 from a coreq to a prereq, add | |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | |
|-----------|--|---|
| | “department chair permission required” to prereq statement, remove AAS and old CCC and AS control access codes, add 2197H to CD panel, remove 4A and DL special designators, revise course description) | 2 |
| ATF 2510L | Flight Instructor Multi-Engine (MEI) Flight – Airplane (AS) (Add “department chair permission required” to prereq statement, remove 1F and 4A designators off CD panel, add 3A designator to CD panel, remove AAS and old CCC and AS control access codes from CD panel, revise course description) | 1 |
| ATF 2530L | Flight Instructor Instrument (CFI-I) Flight - Airplane (AS) (Add “department chair permission required” to prereq statement, remove 1F and 2A designator and add 3A designator to CD panel, remove AAS and old CCC and AS control access codes, add 2197H control access to CD panel, revise course description) | 1 |
| ATF 2540L | Flight Instructor (Initial CFI) Flight - Helicopter (AS) (Change ATT2131 coreq to prereq on CD and in prereq statement, remove 4H designator from CD panel, remove AAS and old CCC and AS control access codes, add 2197A to CD panel, revise course description) | 1 |
| ATF 2541L | Flight Instructor Instrument (CFI-I) Flight - Helicopter (AS) (Add “department chair permission required” to prereq statement, remove 1F and 2H designators, add 3H designator to CD panel, remove AAS and old CCC and AS control access codes, add 2197A to CD panel, revise course descriptions) | 1 |
| ATT 1100 | Private Pilot Ground School (AS) (Revise course description and learning outcomes, add special fee for FAA Knowledge Test (fee based on pending affiliation agreement), remove “PP” special designator) | 3 |
| ATT 2110 | Commercial Pilot Ground School (AS) (Revise course description and learning outcomes, add pre/coreq of ATT2120 with a grade of C or higher to CD panel, add special fee for FAA Knowledge Test (fee based on pending affiliation agreement) | 3 |
| ATT 2120 | Instrument Ground School (AS) (Revise course description and learning outcomes, add pre/coreq of ATT2120 with a grade of C or higher to CD panel, add special fee for FAA Knowledge Test (fee based on pending affiliation agreement) | 3 |
| ATT 2131 | Flight Instructor Ground School (AS) (Revise course description and learning outcomes, add pre/coreq of ATT2110 with a grade of C or higher to CD panel, add special fee for FAA Knowledge Test (fee based on pending affiliation agreement) | 3 |

Revised Program

Effective August 2015

The program sequence for both the Airplane AS Concentration and Helicopter AS Concentration was revised.

| Current Airplane Course Sequence | | | Proposed Airplane Course Sequence | | |
|----------------------------------|--|------------|-----------------------------------|---|------------|
| | Science Prof Pilot Airplane (AS 2197A) | | | Science Prof Pilot Airplane (AS 2197A) | |
| Term One - Fall (Year One) | | Credit: 13 | Term One - Fall (Year One) | | Credit: 16 |
| ATF1111C | Private Pilot Flight 1 - Airplane (AS) | 2 | | Any MAC prefix course from Mathematics – see PBSC Catalog Area III of General Education Courses | 3 |
| ATF1112C | Private Pilot Flight 2 - Airplane (AS) | 2 | | Any ASC course | 3 |
| ATF1602C | Flight Simulator (AS) | 3 | ATF1111C | Private Pilot Flight 1 - Airplane (AS) | 2 |
| ATT1100 | Private Pilot Ground School (AS) | 3 | ATF1112C | Private Pilot Flight 2 - Airplane (AS) | 2 |
| ATT2120 | Instrument Ground School (AS) | 3 | ATT1100 | Private Pilot Ground School (AS) | 3 |
| | | | ATT2120 | Instrument Ground School (AS) | 3 |
| Term Two - Spring (Year One) | | Credit: 13 | Term Two - Spring (Year One) | | Credit: 16 |
| ATT2110 | Commercial Pilot Ground School (AS) | 3 | | Any PHY prefix course from Natural Science– see PBSC Catalog Area IV of General Education Courses | 3 |
| ATT2131 | Flight Instructor Ground School (AS) | 3 | ATF1602C | Flight Simulator | 3 |
| | Elective | 4 | ATT2110 | Commercial Pilot Ground School (AS) | 3 |
| | ATF1150LA-B - Flight Lab 1 - Airplane (AS) | 1 | ATT2131 | Flight Instructor Ground School (AS) | 3 |
| ATF2300 | Instrument Rating Flight 1 - Airplane (AS) | 2 | | ATF1150LA-B - Flight Lab 1 - Airplane (AS) | 1 |
| ATF2302L | Instrument Rating Flight 2 - Airplane (AS) | 1 | ATF2300 | Instrument Rating Flight 1 - Airplane (AS) | 2 |
| ATF2250L | Flight Lab 2 – Airplane (AS) | 1 | ATF2302L | Instrument Rating Flight 2 - Airplane (AS) | 1 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | | | | |
|---------------------------------------|--|-------------------|---------------------------------|--|-------------------|
| ATF2204C | Commercial Pilot Flight – Airplane (AS) | 2 | | | |
| Term Three - Summer (Year One) | | Credit: 5 | | Term Three - Summer (Year One) | Credit: 15 |
| | Elective | 1 | ENC1101 | College Composition 1 (AA) | 3 |
| | Elective | 1 | SPC1017 | Fundamentals of Speech Communication | 3 |
| | Elective | 3 | | Any ASC course | 3 |
| | | | | Any ASC course | 3 |
| | | | ATF2250L | Flight Lab 2 - Airplane (AS) | 1 |
| | | | ATF2204C | Commercial Pilot Flight - Airplane (AS) | 2 |
| Term One - Fall (Year Two) | | Credit: 18 | | Term One - Fall (Year Two) | Credit: 17 |
| ASC2550 | Aerodynamics (AS) | 3 | | Any course from Humanities – see PBSC Catalog Area II of General Education Courses | 3 |
| - | Any course from Social Science – Area V | 3 | | Any course from Social Science –see PBSC Catalog Area V of General Education Courses | 3 |
| ENC1101 | College Composition 1 (AA) | 3 | | Any ASC Course | 3 |
| - | Any MAC prefix course from Mathematics – Area III | 3 | | Any ASC Course | 3 |
| ASC1101 | Aero Navigation (AS) | 3 | | Elective | 5 |
| ASC1310 | Aero Safety and Regulations (AS) | 3 | | | |
| Term Two - Spring (Year Two) | | Credit: 15 | | | |
| ASC1640 | Propulsion Systems (AS) | 3 | | | |
| ASC1210 | Aero Meteorology (AS) | 3 | | | |
| SPC1017 | Fundamentals of Speech Communication (AA) | 3 | | | |
| - | Any course from Humanities – Area II | 3 | | | |
| - | Any PHY prefix course from Natural Science Area IV | 3 | | | |
| Total Program Credit: 64 | | | Total Program Credit: 64 | | |

| Current | Helicopter Course Sequence | | | Proposed Helicopter Course Sequence | |
|---|--|--------------------|----------|---|--------------------|
| Aeronautical Science Professional Pilot (AS 2197H) | | | | Aeronautical Science Professional Pilot (AS 2197H) | |
| | | | | | |
| Term One - Fall (Year One) | | Credits: 13 | | Term One - Fall (Year One) | Credits: 15 |
| ATF1140C | Private Pilot Flight 1 - Helicopter (AS) | 2 | | Any MAC prefix course from Mathematics – see PBSC Catalog Area III of General Education Courses | 3 |
| ATF1142C | Private Pilot Flight 2 - Helicopter (AS) | 2 | | Any ASC course | 3 |
| ATF1602C | Flight Simulator (AS) | 3 | ATF1140C | Private Pilot Flight 1 - Helicopter (AS) | 2 |
| ATT1100 | Private Pilot Ground School (AS) | 3 | ATF1142C | Private Pilot Flight 2 - Helicopter (AS) | 2 |
| ATT2120 | Instrument Ground School (AS) | 3 | ATT1100 | Private Pilot Ground School (AS) | 3 |
| | | | ATT2120 | Instrument Ground School (AS) | 3 |
| Term Two - Spring (Year One) | | Credits: 14 | | Term Two - Spring (Year One) | Credits: 15 |
| ATT2110 | Commercial Pilot Ground School (AS) | 3 | ATF1602C | Flight Simulator (AS) | 3 |
| ATT2131 | Flight Instructor Ground School (AS) | 3 | | Any PHY prefix course from Natural Science– see PBSC Catalog Area IV of General Education Courses | 3 |
| ATF1342L | Flight Lab 1 - Helicopter (AS) | 1 | ATT2110 | Commercial Pilot Ground School (AS) | 3 |
| ATF2340 | Instrument Rating Flight 1 - Helicopter (AS) | 3 | ATT2131 | Flight Instructor Ground School (AS) | 3 |
| ATF2341L | Instrument Rating Flight 2 - Helicopter (AS) | 1 | ATF1342L | Flight Lab 1 - Helicopter (AS) | 1 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | | | | |
|---------------------------------------|--|--------------------|---------------------------------------|---|--------------------|
| ATF2240L | Flight Lab 2 - Helicopter (AS) | 1 | ATF2340 | Instrument Rating Flight 1 - Helicopter (AS) | 2 |
| ATF2241C | Commercial Pilot Flight - Helicopter (AS) | 2 | ATF2341L | Instrument Rating Flight 2 - Helicopter (AS) | 1 |
| | Elective | 1 | | | |
| Term Three - Summer (Year One) | | Credits: 4 | Term Three - Summer (Year One) | | Credits: 15 |
| - | Elective | 1 | ENC1101 | College Composition 1 (AA) | 3 |
| - | Elective | 1 | SPC1017 | Fundamentals of Speech Communication | 3 |
| - | Elective | 1 | | Any ASC course | 3 |
| - | Elective | 1 | | Any ASC course | 3 |
| - | | | ATF2240L | Flight Lab 2 - Helicopter (AS) | 1 |
| - | | | ATF2241C | Commercial Pilot Flight - Helicopter (AS) | 2 |
| Term One - Fall (Year Two) | | Credits: 18 | Term One - Fall (Year Two) | | Credits: 17 |
| ENC1101 | College Composition 1 (AA) | 3 | | Any ASC Course | 3 |
| - | Any MAC prefix course from Mathematics - Area III | 3 | | Any ASC Course | 3 |
| - | Any course from Social Science - Area V | 3 | | Any course from Humanities - see PBSC Catalog Area II of General Education Courses | 3 |
| ASC1101 | Aero Navigation (AS) | 3 | | Any course from Social Science - see PBSC Catalog Area V of General Education Courses | 3 |
| ASC1310 | Aero Safety and Regulations (AS) | 2 | | Elective | 5 |
| ASC2550 | Aerodynamics (AS) | 3 | | | |
| Term Two - Spring (Year Two) | | Credits: 15 | | | |
| ASC1640 | Propulsion Systems (AS) | - | | | |
| ASC1210 | Aero Meteorology (AS) | 3 | | | |
| SPC1017 | Fundamentals of Speech Communication (AA) | 3 | | | |
| - | Any course from Humanities - Area II | 3 | | | |
| - | Any PHY prefix course from Natural Science Area IV | 3 | | | |
| Total Program Credits: 64 | | | Total Program Credits: 64 | | |

Justification: This is a revision of an existing program. In 2008 when the helicopter track was added, references to "airplanes" in the course learning outcomes should have been changed to "aircraft." Next, when the TSA changed the sequence of the Flight Simulator class (ATF1602C) to be included in the semester of the Instrument Rating training, ATF1602C should have become a Pre/Corequisite to the Instrument Rating courses. Finally, during a site visit to the affiliation flight schools, it was determined that many students were not successful in the flight courses because they had not completed their FAA Knowledge Test for that license or rating. Therefore, the FAA knowledge test will become a completion requirement for the FAA ground school classes. Then the FAA ground school classes will become prerequisites to the flight courses.

Discussion: In reviewing the justification for the recommended changes to the Aeronautical Science AS degree, Judy Maxwell pointed out that 1) The Flight Simulator course was moved to the second semester due to TSA standards impact on for non-US citizens who were completing the program. This in turn revealed a need for prerequisite revision to ensure the students took the courses in the prescribed way. 2) This change mandated changes to the pre/corequisites for flight classes to comply with the TSA standards and strict order of training. 3) Due to limitations of the Panthernet system, special designators needed to be added or revised on flight classes in addition to some housekeeping clean-up of the course designator panels 4) Course learning outcomes and descriptions needed to be updated to TSA regulation language 5) Changes were made to the flight elective registration requirements to meet VA standards for funding student's pilot training and as a bi-product, recording program health indicators (completers) and 6) A recent site visit to the flight schools used for flight training and it was determined that in order for students to complete last flight class they needed to pass the FAA Knowledge Test. This test was added as a hard prereq to Ground School and Ground School was added the last flight class students would take.

Data sources consulted: Curriculum Support Documents

Action: (Vice Chair D. Singer called for the Motion.) Motion to approve: V. Stashenko; 2nd: M. Tiggle **APPROVED**

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

3. Engineering Technology AS

New Courses

Effective August 2015

| Course | Title | Credits | Lecture/lab | Pre/coreq | Special fee | Med acc/liab |
|----------|---|---------|--|---|-------------|--------------|
| EET1084C | Electrical Circuits and Electronics | 3 | 32/48 | P-MAC1105/C-PHY1001 | \$33 | both |
| EET1141C | Analog Devices | 3 | 32/32 | P-EET1025C | \$25 | both |
| EET1142C | Analog Circuits | 3 | 32/32 | P-EET1141C | \$25 | both |
| EET1610C | Through-Hole Surface Mount Soldering | 3 | 32/32 | P-EET1084C or EET1215C | \$35 | both |
| EET2325C | Electronic Communications Systems | 3 | 32/32 | P-EET1084C or EET1215C or ETP1200 | \$24 | both |
| EET2609C | Electronic Fabrication and Fiber Optics | 3 | 32/32 | P-EET1084C or EET1215C | \$24 | both |
| EET2620C | Advanced Surface Mount Soldering Technology | 3 | 32/32 | P-EET1610C | \$35 | both |
| EET2724C | Schematic Capture and Modeling | 3 | 32/32 | P-EET1084C or EET1215C | \$18 | both |
| EGS2122 | Geometric Dimensioning and Tolerancing | 2 | 32 lect | P-ETM1010C | None | both |
| ETD2320C | Introduction to AutoCAD | 3 | 32/32 | NA | None | NA |
| ETD2941 | Engineering Technology Internship | 3 | 240 clin (5 contact hrs per credit per week) | P-ETM1010C, ETI1701, ETI2110, ETI1830, ETD2320C, (EET1084C or EET1215C) | None | both |
| ETD2950C | Special Topics in Engineering Technology | 3 | 16/64 | P-ETM1010C, ETI1701, ETI2110, ETI1830, ETD2320C, (EET1084C or EET1215C) | \$55 | both |
| ETI1830 | Materials and Processes 1 | 3 | 48 lect | NA | None | NA |
| ETI2110 | Introduction to Quality Assurance | 3 | 48 lect | NA | None | NA |
| ETP1400C | Distributed Electric Power Generation and Storage | 3 | 32/32 | P-EET1084C or EET1215C or ETP1200 | \$24 | both |
| ETP1550 | Alternative Fuels and Electric Vehicle Technologies | 3 | 48 lect | P-EET1084C or EET1215C or ETP1200 | None | NA |
| ETP2410C | Photovoltaic Technology | 3 | 32/32 | P-EET1084C or EET1215C or ETP1200 | \$16 | both |
| ETS1810C | Energy Efficient Buildings | 3 | 32/32 | NA | None | both |

Effective August 2016

| Course | Title | Credits | Lecture/lab | Pre/coreq | Special fee | Med acc/liab |
|--------|-------|---------|-------------|-----------|-------------|--------------|
|--------|-------|---------|-------------|-----------|-------------|--------------|

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | | | | | |
|----------|---|---|---------|---|------|------|
| EET1611C | Standard Testing and Certification | 3 | 32/32 | P-EET1084C or EET1215C | \$35 | both |
| | | | | | | |
| ETD2340C | AutoCAD 2 | 3 | 32/32 | P-ETD2320C | None | both |
| ETD2355C | AutoCAD 3D Modeling | 3 | 32/32 | P-ETD2340C | None | both |
| ETD2364C | SolidWorks Fundamentals | 3 | 32/32 | P-ETD2320C | None | NA |
| ETI1411 | Manufacturing Process | 3 | 48 lect | P-ETI2110 and ETI1830 | None | NA |
| ET1622 | Concepts of Lean Manufacturing and Six Sigma | 3 | 48 lect | NA | None | NA |
| ETI2121C | Non-Destructive and Destructive Testing | 3 | 32/32 | P-ETI1701, ETI1830, ETI2851C | \$44 | both |
| ET2460C | Composites Fundamentals | 3 | 32/32 | P-ETI2851C | \$85 | both |
| ETI2851C | Applied Mechanics | 3 | 32/32 | P-ETI1830 and ETI1701 | \$15 | both |
| ETS1240 | Fiber Optic Technologies | 3 | 48 lect | P-EET1084C or EET1215C or ETP1200 | None | both |
| ETM1010C | Mechanical Measurements & Instruments | 2 | 16/32 | P-MAC1105 and ETI1701 | \$20 | both |

Revised Courses

Effective August 2015

| | | |
|-----------|---|---|
| CET 2123C | Microprocessors 1 (Change prereq to EET1215C or EET1084C with a grade of C or higher) | 3 |
| ETP 1402 | Introduction to Solar Energy (Change prereq to ETP1200 or EET1215C or EET1084C with a grade of C or higher) | 3 |
| ETP 1511C | Introduction to Biofuels (Change prereq to ETP1200 or EET1215C or EET1084C with a grade of C or higher) | 3 |
| ETP1530C | Introduction to Wind Energy (Change prereq to ETP1200 or EET1215C or EET1084C with a grade of C or higher) | 3 |
| ETP 1540 | Introduction to Hydro Power (Change prereq to ETP1200 or EET1215C or EET1084C with a grade of C or higher) | 3 |

Effective August 2016

| | | |
|-----------|--|---|
| ETS 2520C | Process Measurement Fundamentals (Change prereq to EET1215C or EET1084C with a grade of C or higher) | 2 |
|-----------|--|---|

New Program

Effective August 2015

ENGINEERING TECHNOLOGY AS DEGREE (CIP 1615000001 60 Credits)

ALTERNATIVE ENERGY SYSTEMS CONCENTRATION (Program Code 1)

| GENERAL EDUCATION COURSES | CREDITS |
|---|-----------|
| SPC 1017 Fundamentals of Speech Communication | 3 |
| MAC 1105 College Algebra | 3 |
| ENC 1101 College Composition 1 | 3 |
| PSY2012 General Psychology | 3 |
| Humanities Area II | 3 |
| PHY1001 Applied Physics | 3 |
| Total General Education Credits | 18 |

CORE COURSES

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | |
|--|-----------|
| ETM 1010C Mechanical Measurements & Instruments (2 credit hours) | 2 |
| ETI 1701 Environmental Health & Safety | 3 |
| ETI 2110 Introduction to Quality Assurance | 3 |
| ETI 1830 Materials and Processes 1 | 3 |
| ETD 2320C Introduction to AutoCAD | 3 |
| EET 1084C Electrical Circuits and Electronics | 3 |
| Total Core Course Credits | 17 |

ALTERNATIVE ENERGY SYSTEMS REQUIRED COURSES

| | |
|--|---|
| ETP 1400C Distributed Electric Power Generation and Storage | 3 |
| ETP 1402 Introduction to Solar Energy | 3 |
| ETP 1511C Introduction to Biofuels | 3 |
| ETP 1530C Introduction to Wind Energy | 3 |
| ETP 1540 Introduction to Hydro Power | 3 |
| ETP 1550 Alternative Fuels and Electric Vehicle Technologies | 3 |
| Technical Electives (7 credits) | 7 |

Total Alternative Energy Systems Concentration Credits **25**

ALTERNATIVE ENERGY SYSTEMS TECHNICAL ELECTIVES:

| | |
|--------------------------------------|---|
| ETP 2410C Photovoltaic Technology | 3 |
| ETS 1810C Energy Efficient Buildings | 3 |
| ETP 1510C Biofuels and Biomass | 3 |

GENERAL TECHNICAL ELECTIVES:

| | |
|---|---|
| EET 2325C Electronic Communication Systems | 3 |
| EET 2609C Electronic Fabrication and Fiber Optics | 3 |
| EET 1611 Standard Testing and Certification | 3 |
| EGS 2122 Geometric Dimensioning and Tolerancing | 2 |
| ETI 1411 Manufacturing Process | 3 |
| ETI 1622 Concepts of Lean Manufacturing and Six Sigma | 3 |
| ETD 2340C AutoCAD 2 | 3 |
| ETD 2355C AutoCAD 3D Modeling | 3 |
| ETD 2950C Special Topics in Engineering Technology | 3 |
| ETD 2941 Engineering Technology Internship | 3 |

TOTAL Program Credits **60**

ELECTRONICS CONCENTRATION (Program Code 2)

GENERAL EDUCATION COURSES

| | CREDITS |
|---|----------------|
| SPC 1017 Fundamentals of Speech Communication | 3 |
| MAC 1105 College Algebra | 3 |
| ENC 1101 College Composition I | 3 |
| PSY2012 General Psychology | 3 |
| Humanities Area II | 3 |
| PHY1001 Applied Physics | 3 |

Total General Education Credits **18**

CORE COURSES

| | |
|--|---|
| ETM 1010C Mechanical Measurements & Instruments (2 credit hours) | 2 |
| ETI 1701 Environmental Health & Safety | 3 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | |
|----------------------------------|--|-----------|
| ETI 2110 | Introduction to Quality Assurance | 3 |
| ETI 1830 | Materials and Processes 1 | 3 |
| ETD 2320C | Introduction to AutoCAD | 3 |
| EET 1084C | Electrical Circuits and Electronics (*1) | 3 |
| Total Core Course Credits | | 17 |

ELECTRONICS REQUIRED COURSES

| | | |
|--|---------------------------------|-----------|
| EET 1015C | DC Circuit Analysis | 3 |
| EET 1025C | AC Circuit Analysis | 3 |
| EET 1215C | Introduction to Electronics | 3 |
| CET 2123C | Microprocessors 1 | 3 |
| CET 2127C | Microprocessors 2 | 3 |
| EET 1141C | Analog Devices | 3 |
| | Technical Electives (7 credits) | 7 |
| Total Electronics Concentration Credits | | 25 |

ELECTRONICS TECHNICAL ELECTIVES:

| | | |
|-----------|---|---|
| EET 2724C | Schematic Capture and Modeling | 3 |
| EET 1610C | Through-Hole and Surface-Mount Soldering | 3 |
| EET 2620C | Advanced Surface-Mount Soldering Technology | 3 |
| EET 1142C | Analog Circuits | 3 |
| EET 2609C | Electronic Fabrication and Fiber Optics | 3 |

GENERAL TECHNICAL ELECTIVES:

| | | |
|-----------|--|---|
| EET 2325C | Electronic Communication Systems | 3 |
| EET 2609C | Electronic Fabrication and Fiber Optics | 3 |
| EET 1611 | Standard Testing and Certification | 3 |
| EGS 2122 | Geometric Dimensioning and Tolerancing | 2 |
| ETI 1411 | Manufacturing Process | 3 |
| ETI 1622 | Concepts of Lean Manufacturing and Six Sigma | 3 |
| ETD 2340C | AutoCAD 2 | 3 |
| ETD 2355C | AutoCAD 3D Modeling | 3 |
| ETD 2950C | Special Topics in Engineering Technology | 3 |
| ETD 2941 | Engineering Technology Internship | 3 |

TOTAL Program Credits **60**

(*1) For Electronics concentration EET 1084C Electrical Circuits and Electronics is replaced with EET 2325C Electronic Communication Systems

*A course cannot be used more than once in the program.

Effective August 2016

ADVANCED TECHNOLOGY CONCENTRATION (Program Code 3)

GENERAL EDUCATION COURSES

| | | |
|--|--------------------------------------|-----------|
| SPC 1017 | Fundamentals of Speech Communication | 3 |
| MAC 1105 | College Algebra | 3 |
| ENC 1101 | College Composition 1 | 3 |
| PSY2012 | General Psychology | 3 |
| | Humanities Area II | 3 |
| PHY1001 | Applied Physics | 3 |
| Total General Education Credits | | 18 |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

CORE COURSES

| | |
|---|-----------|
| ETM 1010C Mechanical Measurements & Instruments | 2 |
| ETI 1701 Environmental Health & Safety | 3 |
| ETI 2110 Introduction to Quality Assurance | 3 |
| ETI 1830 Materials and Processes 1 | 3 |
| ETD 2320C Introduction to AutoCAD | 3 |
| EET 1084C Electrical Circuits and Electronics | 3 |
| Total Core Course Credits | 17 |

ADVANCED TECHNOLOGY REQUIRED COURSES

| | |
|--|-----------|
| EET 2325C Electronic Communication Systems* | 3 |
| ETD 2364C SolidWorks Fundamentals | 3 |
| ETI 2851C Applied Mechanics | 3 |
| ETS 1240 Fiber Optic Technologies | 3 |
| ETS 2520C Process Measurement Fundamentals | 3 |
| ETI 2121C Non-Destructive and Destructive Testing | 3 |
| ETI 2460C Composites Fundamentals | 3 |
| Technical Electives (4 credits) | 4 |
| Total Advanced Technology Concentration Credits | 25 |

ADVANCED TECHNOLOGY TECHNICAL ELECTIVES:

| | |
|---|---|
| EET1141C Analog Devices | 3 |
| EET 2724C Schematic Capture and Modeling | 3 |
| EET 1610C Through-Hole and Surface-Mount Soldering | 3 |
| EET 2620C Advanced Surface-Mount Soldering Technology | 3 |
| EET 1142C Analog Circuits | 3 |
| EET 2609C Electronic Fabrication and Fiber Optics* | 3 |

GENERAL TECHNICAL ELECTIVES:

| | |
|---|---|
| EET 2325C Electronic Communication Systems* | 3 |
| EET 2609C Electronic Fabrication and Fiber Optics* | 3 |
| EET 1611 Standard Testing and Certification | 3 |
| EGS 2122 Geometric Dimensioning and Tolerancing | 2 |
| ETI 1411 Manufacturing Process | 3 |
| ETI 1622 Concepts of Lean Manufacturing and Six Sigma | 3 |
| ETD 2340C AutoCAD 2 | 3 |
| ETD 2355C AutoCAD 3D Modeling | 3 |
| ETD 2950C Special Topics in Engineering Technology | 3 |
| ETD 2941 Engineering Technology Internship | 3 |

TOTAL Program Credits **60**

**A course cannot be used more than once in the program.*

Revised Program

Effective August 2015

| Current | | | | Proposed | | | |
|--|--------------------------------------|----------------|--|--|--------------------------------------|----------------|--|
| Electrical Power Technology AS 2270 | | | | Electrical Power Technology AS 2270 | | | |
| GENERAL EDUCATION REQUIREMENTS | | CREDITS | | GENERAL EDUCATION REQUIREMENTS | | CREDITS | |
| ENC 1101 | College Composition 1 | 3 | | ENC 1101 | College Composition 1 | 3 | |
| MAC 1105 | College Algebra | 3 | | MAC 1105 | College Algebra | 3 | |
| SPC 1017 | Fundamentals of Speech Communication | 3 | | SPC 1017 | Fundamentals of Speech Communication | 3 | |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | | | | | |
|--|--|-----------|--|--|-----------|
| PSY 2012 | General Psychology | 3 | PSY 2012 | General Psychology | 3 |
| PHY 1001 | Applied Physics | 3 | PHY 1001 | Applied Physics | 3 |
| Any course from Humanities Area II | | 3 | Any course from Humanities Area II | | 3 |
| Total Required General Education Credits | | 18 | Total Required General Education Credits | | 18 |
| CORE PROGRAM REQUIREMENTS | | | CORE PROGRAM REQUIREMENTS | | |
| EET 1015C | DC Circuit Analysis | 3 | EET 1015C | DC Circuit Analysis | 3 |
| EET 1025C | AC Circuit Analysis | 3 | EET 1025C | AC Circuit Analysis | 3 |
| ETP 1220 | Power Plant Fundamentals | 3 | ETP 1220 | Power Plant Fundamentals | 3 |
| ETI 1701 | Industrial Safety | 3 | ETI 1701 | Industrial Safety | 3 |
| CGS 1100 | Microcomputer Applications | | CGS 1100 | Microcomputer Applications | |
| -or- | | | -or- | | |
| EVR 2266 | Survey of Environmental Mappings/GIS/ Remote Sensing* | 3 | EVR 2266 | Survey of Environmental Mappings/GIS/ Remote Sensing* | 3 |
| ETP 1200 | Power Plant Science | 3 | ETP 1200 | Power Plant Science | 3 |
| ETI 1000 | Industrial Tools and Equipment | 3 | ETI 1000 | Industrial Tools and Equipment | 3 |
| EET 1215C | Introduction to Electronics | 3 | EET 1215C | Introduction to Electronics | 3 |
| CET 2123C | Microprocessors 1 | 3 | CET 2123C | Microprocessors 1 | 3 |
| CET 2127C | Microprocessors 2 | 3 | CET 2127C | Microprocessors 2 | 3 |
| ETS 2520C | Process Measurement Fundamentals | 2 | ETS 2520C | Process Measurement Fundamentals | 2 |
| ETS 2700C | Fluid and Pneumatic Controls | 3 | ETS 2700C | Fluid and Pneumatic Controls | 3 |
| ETS 2530C | Process Control Technology | 3 | ETS 2530C | Process Control Technology | 3 |
| EET 2930C | Special Topics in Electrical Engineering | 3 | EET 2930C | Special Topics in Electrical Engineering | 3 |
| Total Required Core Program Credits | | 41 | Total Required Core Program Credits | | 41 |
| ELECTIVES (9 CREDITS REQUIRED) | | | ELECTIVES (9 CREDITS REQUIRED) | | |
| ETI 2941 | EPT Internship (6 credits) | 6 | ETI 2941 | EPT Internship (6 credits) | 6 |
| ETI 2942 | EPT Internship (3 credits) | 3 | ETI 2942 | EPT Internship (3 credits) | 3 |
| ETP 1511C | Introduction to Bio Fuels | 3 | ETP 1511C | Introduction to Bio Fuels | 3 |
| ETP 1530C | Introduction to Wind Energy | 3 | ETP 1530C | Introduction to Wind Energy | 3 |
| ETP 1540 | Introduction to Hydro Power | 3 | ETP 1540 | Introduction to Hydro Power | 3 |
| ETP 1402 | Introduction to Solar Energy | 3 | ETP 1402 | Introduction to Solar Energy | 3 |
| EVR 2266 | Survey of Environmental Mapping/GIS/ Remote Sensing* | 3 | EVR 2266 | Survey of Environmental Mapping/GIS/ Remote Sensing* | 3 |
| ETP 1510C | Biofuels and Biomass | 3 | ETP 1510C | Biofuels and Biomass | 3 |
| ETP 2137C | Electrical Distribution Substations | 3 | ETP 2137C | Electrical Distribution Substations | 3 |
| Total Required Electives Credits | | 9 | ETP 2410C | Photovoltaic Technology | 3 |
| Total Program Credits | | 68 | ETS 1810C | Energy Efficient Buildings | 3 |
| <i>*Course may only be used once toward the A.S. degree.</i> | | | ETP 1400C | Distributed Electrical Generation and Storage | 3 |
| | | | ETP 1550 | Alternative Fuels and Electric Vehicle Technologies | 3 |
| | | | EET2325C | Electronic Communications Systems | 3 |
| | | | Total Required Electives Credits | | 9 |
| | | | Total Program Credits | | 68 |
| | | | <i>*Course may only be used once toward the A.S. degree.</i> | | |

Justification: All new courses: Addition of this course is required for the approved new AS degree in Engineering Technology. This is a core/concentration/technical elective course for the new degree. **All revised courses:** Due to creation of a new AS degree in Engineering Technology and inclusion of this course in one of its concentrations, an additional option of a pre-requisite course selection was required. **New Engineering Technology AS Degree:** There is a huge unmet need for engineering technologists in the County. This new field of training has been requested and supported by most of the companies in Electrical Power Technology program BPC. The degree has been approved by the appropriate College's bodies. The first three proposed concentrations would cover the three main focuses identified by these companies: Alternative Energy Systems, Electronics, and Advanced Technology. The VPAA and PBG Campus Dean agreed that because of the scope of this program development, two concentrations would be included in the 2015-2016 catalog (Alternative Energy Systems and Electronics) and the remaining concentration (Advanced Technology) would roll-out for the 2016-2017 catalog. **Electrical Power Technology AS Revision:** This change includes the addition of new electives in alternative energy field due to addition of these new courses for new Engineering Technology AS program as well as changes to some pre-requisites due to inclusion of the existing EPT courses into new ET AS program.

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

Discussion: Oleg Andric gave an overview of the development process for the Engineering Technology AS degree. The plan is to roll out the two new AS concentrations that use some existing courses at the College: Energy and Alternative Energy Systems, in August 2015. After these are set in place and new faculty are comfortable with the two concentrations, the more demanding Advanced Technology Concentration would roll out in August 2016. These three new concentrations required some of the Electrical Power Technology AS degree courses to be modified to be included in them plus the addition of some of the new Engineering Technology AS courses as electives to the Electrical Power Technology AS degree. It was noted that the Special Topics in Engineering Technology course (ETD2950C) would need to be created as an individual course with a specific title that a new version is created each time the topic changes. A suffix designation will be added to the course number for each new version to distinguish it on the student transcript. Academic Services will share instructions with Professor Andric on how to submit these course changes.

Data sources consulted: Curriculum Support Documents

Action: Motion to approve: L. Jordan; 2nd: V. Stashenko

APPROVED

G. Motion to Dismiss

Discussion: NA

Action: Motion to dismiss: D. Singer; 2nd: M. Tiggle

APPROVED

The Curriculum agendas and documentation are at <http://intranet.pbcc.edu/AcadServ/CurriculumMaterials.asp> and Curriculum Minutes <http://www.palmbeachstate.edu/curriculum-development/minutes.aspx> are posted online.

The Curriculum Committee meetings will be held in ETA 101 in Lake Worth and will be available for members and presenters in the reserved conference rooms at the other college locations. (Belle Glade CRA 105.3, Boca Raton AD 406, Lake Worth ETA 101, and Palm Beach Gardens AD 207)

Location Attendance

| Location | Committee | Presenters | Faculty | Staff | Administrators |
|----------|-----------|------------|---------|-------|----------------|
| BG | | | | | |
| BR | 1 | | | | |
| LW | 9 (1) | 6 | | 2 | 2 |
| PBG | 1 | 2 | | | |

| Attendance | Faculty and Instructors |
|------------|---|
| | Victor Aikhionbare, Political Science -1 st Year LW |
| | Garfield Basant, Math-2 nd Year LW |
| X | Elizabeth Horvath, Computer Science 1 st Year LW |
| X | Kristin Hopkins, Art and Graphic Design, 2 nd Year LW |
| X | Lilian Jordan, Physics-1 st Year PBG |
| X | Judy Maxwell, Aeronautical Science-3rd Year LW CHAIR |
| | Mary Pernal, English-Literature-2 nd Year PBG |
| | Nancy Peifer-Neil, BSN 2 nd Year District |
| X | Doreen Singer, Surgical Technology PSAV-2 nd Year LW |
| X | Victor Slesinger, Foreign Languages-2 nd Year LW (Left for class after IV.F.1) |
| X | Vetaley Stashenko, Natural Sciences-2 nd Year BG |
| X | Michele Tiggle, BAS Health Adm-1 st Year District |
| X | Debra Trigoboff, Education-1st Year BR |
| | Administrative Members |
| | Irving Berkowitz, Academic Dean, 1 st Year, LW |
| X | Henry Ponciano, Student Services Asst. Dean, 1 st Year, PBG |
| | Edward Mueller, District Registrar |
| X | Thomas Vo, District Financial Aid Director (Attended meeting starting with IV.F.2.) |
| | Nancy Zinser, Academic Associate Dean, Health Sciences 1 st Year LW |
| | Kathy Gamble, Academic Services (Non-voting) |

Palm Beach State College
Curriculum Committee Minutes
January 29, 2015

| | |
|---|---|
| X | Ginger Pedersen, Dean- Academic Services (Non-voting) |
|---|---|

Presenters: Pamela Mason-Eagan, Shelly Hedstrom, Cary High, Elizabeth Horvath, Colleen Bradshaw, Eligio Marquez-Veray, Judy Maxwell, Oleg Andric

Guests: Maryann McGann, Geri Spain, David Knopp, Jackie Rogers

| Degree Type | Program Action | | | Course Action | | |
|---------------------|----------------|-----|--------|---------------|-----|--------|
| | New | Rev | Delete | New | Rev | Delete |
| BAS/BS | | | | | | |
| AA | | | | 1 | 1 | |
| AS | 3 | 3 | | 33 | 55 | 12 |
| ATC | | | | | | |
| ATD | | | | | | |
| CCC | 1 | 2 | | | | |
| College Prep | | | | 4 | 1 | |
| PSAV | | 1 | | 12 | 5 | |
| TOTAL | 4 | 6 | | 50 | 62 | 12 |