

**Palm Beach State College
Curriculum Committee Agenda
March 28, 2019**

The Curriculum Committee meetings will be held in **CE 119** in Lake Worth and will be available for members and presenters in the reserved conference rooms at the other college locations. (Belle Glade TEC 220, Boca Raton **AD 306**, Loxahatchee LGA 216, and Palm Beach Gardens AD 207)

FA - Possible Financial Aid Action Warranted

WELCOME

I. APPROVAL OF MINUTES OF JANUARY 24, 2019

Discussion: None

Data sources consulted: Minutes

Action:

II. FOR YOUR INFORMATION

See Separate Agenda

III. OLD BUSINESS

Discussion: NA

Data sources consulted: Curriculum Support Documents

Action: None

IV. NEW BUSINESS

Credits/Clock Hours

A. BACHELOR PROGRAMS

Bachelor of Applied Science-Information Management

Revised Courses

Effective: August 2019 (2020-1)

Course	Title	Revision	Credits
HSA 3160	Health Care Marketing	Changing prerequisite from HSA 4109, FIN 3400 and GEB 3213 (with a grade of "C" or higher) to HSA 4109, FIN 3400, GEB 3213 and HSA 4533 – all courses with a grade of "C" or higher.	3 (3 lecture contact hours)
		<u>Justification:</u> Students need specific training in HSA 4553 to be successful in HSA 3160.	
ISM 4320	Applications in Information Security	Adding prerequisite CNT 2402 with a grade of "C" or higher; Course learning outcome added.	3 (3 lecture contact hours)
		<u>Justification:</u> Course Learning Outcome added as the result of Department of Homeland Security and National Security Agency designation application.	
ISM 4332	IT Project Schedule and Cost Control	Changing title to: <i>Project Schedule and Cost Control</i> . Changing prerequisites from ISM 3314 with a grade of "C" or higher to ISM 3314, ISM 4312 and FIN 3400 with a grade of "C" or higher.	3 (3 lecture contact hours)
		<u>Justification:</u> Students must have a foundation in finance to be successful in this course. This course should incorporate all kinds of projects not just IT projects.	

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Presenter: Dr. Don Gladney

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

B. DEV ED COURSES

EAP- English for Academic Purposes

Deleted Courses

Last Term Offered: 2019-3

Course	Title	Credits	Special Notes	Last Term Offered
EAP 0382	Integrated Reading and Writing	4	This course is being replaced by new course EAP 0320.	Summer 2019-3
EAP 0388	Integrated Speech and Grammar	4	This course is being replaced by new course EAP 0360.	Summer 2019-3

Presenter: Lourdes Marx

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

C. PUBLIC SAFETY

1. Revised Programs

a. Fire Science Technology AS

Effective: May 2019 (2019-3)

Fire Science Technology AS	
Current Program List	Proposed Program List
<i>Program Title: Fire Science Technology (AS 2195)</i>	<i>Program Title: Fire Science Technology (AS 2195)</i>
General Education Requirements	General Education Requirements
No Change	No Change
Required Courses	Required Courses
No Change	No Change
	3

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Elective Courses-		Elective Courses-	
<u>FFP2740</u>	<u>Fire Service Course Delivery</u>	<u>FFP2740</u>	<u>Fire Service Course Delivery</u>
<u>FFP2810</u>	<u>Firefighting Strategy and Tactics 1</u>	<u>FFP2810</u>	<u>Firefighting Strategy and Tactics 1</u>
<u>FFP2811</u>	<u>Firefighting Strategy and Tactics 2</u>	<u>FFP2811</u>	<u>Firefighting Strategy and Tactics 2</u>
<u>FFP2741</u>	<u>Fire Service Course Design</u>	<u>FFP2741</u>	<u>Fire Service Course Design</u>
FFP2541	Private Fire Protection Systems 2	FFP2541	Private Fire Protection Systems 2
<u>FFP2510</u>	<u>Related Fire Codes and Standards</u>	<u>FFP2510</u>	<u>Related Fire Codes and Standards</u>
<u>FFP2521</u>	<u>Blueprint Reading and Plan Examination</u>	<u>FFP2521</u>	<u>Blueprint Reading and Plan Examination</u>
<u>EMS1158C</u>	<u>Emergency Medical Technician</u>	<u>EMS1158C</u>	<u>Emergency Medical Technician</u>
Credit Programs		Total General Education Courses Credits	
		18	
Total Required Course Credits	27	Total Elective Credits	15
		Total Program Credits	60

Presenter: Barbara Cipriano and Chad Crouse

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

- b. Criminal Justice Technology AS- General (Non-Sworn) Concentration Effective: May 2019 (2019-3)

Criminal Justice Technology AS			
Current Program List		Proposed Program List	
<i>Program Title: Criminal Justice Technology / General (Non-Sworn) Concentration (AS 2611)</i>		<i>Program Title: Criminal Justice Technology / General (Non-Sworn) Concentration (AS 2611)</i>	
General Education Requirements		General Education Requirements	
No Change		No Change	
Required Courses		Required Courses	
No Change		No Change	
Elective Courses-		Elective Courses-	
<u>CJE1301</u>	<u>Police Administration 2</u>	<u>CJE1301</u>	<u>Police Administration 2</u>
<u>CJE2600</u>	<u>Criminal Investigation</u>	<u>CJE2600</u>	<u>Criminal Investigation</u>
<u>CJL1062</u>	<u>Introduction to Constitutional Law</u>	<u>CJL1062</u>	<u>Introduction to Constitutional Law</u>
<u>CJL2130</u>	<u>Laws of Evidence</u>	<u>CJL2130</u>	<u>Laws of Evidence</u>
<u>CJL2403</u>	<u>Law of Arrest, Search, and Seizure</u>	<u>CJL2403</u>	<u>Law of Arrest, Search, and Seizure</u>
<u>CGS1100</u>	<u>Microcomputer Applications</u>	<u>CGS1100</u>	<u>Microcomputer Applications</u>
<u>DSC1002</u>	<u>Terrorism and U.S. Security</u>	<u>DSC1002</u>	<u>Terrorism and U.S. Security</u>
FFP1824	Basic Incident Management System I-200	FFP1824	Basic Incident Management System I-200
<u>DSC1590</u>	<u>Intelligence Analysis and Security Management</u>	<u>DSC1590</u>	<u>Intelligence Analysis and Security Management</u>
<u>DSC1242</u>	<u>Transportation and Border Security</u>	<u>DSC1242</u>	<u>Transportation and Border Security</u>
FFP1822	Introduction to Emergency Management and Hon	FFP1822	Introduction to Emergency Management and Hon
Credit Programs		Total General Education Courses Credits	
		18	
Total Required Course Credits	36	Total Elective Credits	6
		Total Program Credits	60

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Presenter: Barbara Cipriano and Chad Crouse

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

c. EMT/Firefighter Combination PSAV Effective: March 2019 (2019-2) FA

EMT/Firefighter Combination PSAV			
Current Program Title-EMT/Firefighter Combination PSAV (Program Code: 5625)		Proposed Program Title- EMT/Firefighter Combination PSAV (Program Code: 5625)	
Length of Program	Clock Hours	Length of Program	Clock Hours
32 weeks	698	28 weeks	698

Justification: EMT/Firefighter Combination (5625) is an existing PSAV program. The EMT/Firefighter Combination Program (5625) is comprised of three required courses: EMS0110; FFP0010; FFP0020. The program is offered as a single cohort and encompasses a total of 698 combined PSAV clock hours. The purpose of this revision is to accurately reflect the program length over which the EMT/Firefighter Combination Program is taught. EMS0110 is taught over 16 weeks and FFP0010/FFP0020 is taught over 12 weeks for a total of 28 weeks and 698 PSAV clock hours. The Palm Beach State College Program Addition Curriculum Committee Form Submission Packet reviewed and approved by the Curriculum Committee in August 2018 states the program length as 32 weeks.

Presenter: Chad Krouse

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

D. TRADE AND INDUSTRY

1. New Courses

Effective: August 2019 (2020-1)

Course	Title	Pre/Co-requisites	Fee	Grading System	Credits (Contact)
CET 2113C	Digital Electronics	Prereq: CET 2117C with a grade of "C" or higher	Course fee \$23.75	AW	3 credits (32 lecture/32 lab contact hours)
EGN 2440C	Probability and Statistics for Engineers	Prereq: MAC 1105 with a grade of "C" or higher	None	AW	3 credits (32 lecture/32 lab contact hours)
ETD 1102	Technical Drawing	Prereq: ETS 2520C and ETS 2530C – both courses with a grade of "C" or higher	Course fee \$18.86	AW	2 credits (32 lecture contact hours)
ETI 2214C	LabView Instrumentation	Prereq: ETS 2520C and ETS 2530C – both courses with a grade of "C" or higher	None	AW	2 credits (24 lecture/24 lab contact hours)
ETI 2402C	Advanced Manufacturing Technology	Prereq: ETI 2427C, ETS 2520C and ETS 2530C – all courses with a grade of "C" or higher	Course fee \$65.10	AW	3 credits (32 lecture/32 lab contact hours)

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ETI 2644	Advanced Manufacturing Supply Chain	None	None	AW	3 credits (48 lecture contact hours)
ETS 2606C	Robotics	Prereq: ETS 2680C with a grade of "C" or higher	Course fee \$52.08	AW	3 credits (32 lecture/48 lab contact hours)
ETS 2633C	Industrial Applications Using PLCs and Robotics	Prereq: ETS 2606C with a grade of "C" or higher	Course fee \$52.08	AW	3 credits (32 lecture/48 lab contact hours)
ETS 2680C	Mechatronics	Prereq: ETS 2520C, ETS 2530C and CET 2127C – each course with a grade of "C" or higher	Course fee \$46.53	AW	3 credits (32 lecture/32 lab contact hours)

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

New Courses for Low Voltage Technician PSAV

Effective: August 2019 (2020-1)

Proposed Course Number	Title	Course Fees	Grading System	Clock Hours
BCV 0604C	Level 1 Low Voltage Technician	Medical Accident/Standard Liability, course fee \$31.00	AN	150 clock hours
EEV 0020C	Level 2 Low Voltage Technician	Medical Accident/Standard Liability, course fee \$31.00	AN	150 clock hours
EEV 0170C	Level 3 Low Voltage Technician	Medical Accident/Standard Liability; course fee \$31.00	AN	150 clock hours
EEV 0700C	Level 4 Low Voltage Technician	Medical Accident/Standard Liability, course fee \$31.00	AN	150 clock hours
EEV 0710C	Level 5 Low Voltage Technician	Medical Accident/Standard Liability, course fee \$31.00	AN	150 clock hours

Presenter: Brent Ebner

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

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New Courses for *Automotive Maintenance and Light Repair PSAV* **Effective: August 2019 (2020-1)**

Course Number	Title	Course Fees	Grading System	Clock Hours
AER 0025	Maintenance and Light Repair Technician 1	Medical Accident, course fee \$392.00	AN	150 clock hours
AER 0026	Maintenance and Light Repair Technician 2	Medical Accident, course fee \$71.00	AN	150 clock hours
AER 0027	Maintenance and Light Repair Technician 3	Medical Accident, course fee \$71.00	AN	150 clock hours
AER 0028	Maintenance and Light Repair Technician 4	Medical Accident/course fee \$71.00	AN	150 clock hours

Presenter: Eligio Marquez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

New Courses for *Diesel Maintenance Technician PSAV* **Effective: August 2019 (2020-1)**

Course Number	Title	Course Fees	Grading System	Clock Hours
DIM 0101	Diesel Engine Mechanic/Technician Helper	Medical Accident, course fee \$367.00	AN	150 clock hours
DIM 0131	Diesel Air Brakes Technician	Medical Accident, course fee \$71.00	AN	150 clock hours
DIM 0153	Diesel Maintenance Service Technician	Medical Accident, course fee \$71.00	AN	300 clock hours

Presenter: Eligio Marquez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

New Courses for *Marine Service Technology PSAV* **Effective: August 2019 (2020-1)**

Proposed Course Number	Title	Course Fees	Grading System	Clock Hours
MTE 0001	Introduction to Marine Service Technologies (OCP A1)	Medical Accident/Standard Liability, course fee \$311.00	AN	150 clock hours
MTE 0003	Marine Rigger (OCP A2)	Medical Accident/Standard Liability, course fee \$71.00	AN	150 clock hours
MTE 0056	Inboard Diesel Engine Technician (OCP F)	Medical Accident/Standard	AN	300 clock hours

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		Liability; course fee \$71.00		
MTE 0074	Outboard and Inboard Engine Diagnostics Technician (OCP C)	Medical Accident/Standard Liability, course fee \$71.00 (Prereq: MTE 0092)	AN	150 clock hours
MTE 0090	Outboard Engine Technician (OCP B)	Medical Accident/Standard Liability, course fee \$71.00	AN	300 clock hours
MTE 0092	Inboard Gasoline Engine Technician (OCP D)	Medical Accident/Standard Liability, course fee \$71.00	AN	150 clock hours
MTE 0093	Drive Train Technician (OCP E)	Medical Accident/Standard Liability, course fee \$71.00	AN	150 clock hours

Presenter: Eligio Marquez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

2. Revised Courses

Effective: August 2019 (2020-1)

Course	Title	Revision	Credits
CET 2113C	Digital Electronics	Change in course number from CET 2123C to CET 2117C Pending SCNS approval. Change in course title from: 'Microprocessors 1' to 'Microprocessors and Digital Logic' Change in course description.	3 credits (32 lecture/32 lab contact hours)
CET 2127C	Programmable Logic Controllers	Change in course title from: 'Microprocessors 2' to 'Programmable Logic Controllers'. Change in course description.	3 credits (32 lecture/32 lab contact hours)
ETI 2622C	Concepts of Lean Manufacturing and Six Sigma	Change in course number from ETI 1622 to ETI 2622C. Change in course description. Change in credit/credit breakdown.	3 credits (32 lecture/32 lab contact hours)
ETS 2352C	Materials and Manufacturing Processes	Change in course number from ETI 2411C to ETS 2352C pending SCNS approval. Change in course title. Change in course description. Change in credit breakdown.	3 credits (32 lecture/32 lab contact hours)
ETS 2700C	Fluid and Pneumatic Controls	Change in course description	3 credits (32 lecture/32 lab contact hours)

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

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Action:

3. Deleted Courses

Effective: August 2019 (2020-1)

Course	Title	Credits	Last Term Offered
ETD 2355C	AutoCAD 3D Modeling	3	Never offered
In program:	Engineering Technology		
ETI 1830	Materials and Processes	3	2019-3
In programs:	Engineering Technology AS Engineering Technology Support Specialist		

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4. New Programs

4.1. Engineering Technology AS- Advanced Manufacturing Concentration

FA

Effective: August 2019 (2020-1)

Engineering Technology AS – Advanced Manufacturing Concentration (CIP: 1615000001)		
Course Prefix/Number	Course Title	Credit Hours
General Education Courses – 18 credit hours		
SPC 1017	Fundamentals of Speech Communication	3
MAC 1105	College Algebra	3
ENC 1101	College Composition 1	3
PSY 2012	General Psychology	3
	Humanities Area II	3
PHY 1001	Applied Physics	3
Core Courses – 18 credit hours		
ETM 1010C	Mechanical Measurements and Instruments	3
ETI 1701	Environmental Health and Safety	3
ETI 2110	Introduction to Quality Assurance	3
ETS 2352C	Materials and Manufacturing Processes	3
ETD 2320C	Introduction to AutoCAD	3
EET 1084C	Electrical Circuits and Electronics	3
Required Major Courses – 18 credits		
CET 2117C	Microprocessors and Digital Logic	3
CET 2127C	Programmable Logic Controllers	3
ETS 2520C	Process Measurement Fundamentals	3
ETS 2530C	Process Control Technology	3
ETS 2700C	Fluid and Pneumatic Controls	3
ETI 2622	Concepts of Lean Manufacturing and Six Sigma	3
Electives		
ETS 2680C	Mechatronics	3
ETI 2402C	Advanced Manufacturing Technology	3
EGN 2440C	Probability and Statistics for Engineers	3
ETS 2606C	Robotics	3
ETS 2633C	Industrial Application Using PLCs and Robotics	3

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EET 2214C	LabView Instrumentation	2
ETI 2644	Advanced Manufacturing Supply Chain	3
ETD 2364C	SolidWorks Fundamentals	3
ETD 2371C	Introduction to 3D Printing	3
ETD 2372C	Advanced Rapid Prototyping	3
ETD 2950C	Special Topics in Engineering Technology	4
ETD 2941	Engineering Technology Internship	3
Total		60 credits

Justification: As part of the Florida Job Growth Grant, we are expanding existing the Engineering Technology program with a new concentration, Advanced Manufacturing, and adding new CCCs within this new concentration. The job marketplace, our industry and business partners, as well as State entities are in need of graduates from this new program. This packet covers a new College Credit Certificate, Mechatronics.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4.2. Automation CCC

Not FA eligible

Effective: August 2019 (2020-1)

Automation CCC (CIP: 0615040601)		
Course Prefix/Number	Course Title	Credit Hours
CET 2117C	Microprocessors and Digital Logic	3
CET 2127C	Programmable Logic Controllers	3
ETS 2520C	Process Measurement Fundamentals	3
ETS 2530C	Process Control Technology	3
ETS 2680C	Mechatronics	3
Total		15 credits

Justification: As part of the Florida Job Growth Grant, we are expanding existing Engineering Technology program with a new concentration, Advanced Manufacturing, and adding new CCCs within this new concentration. The job marketplace, our industry and business partners, as well as State entities are in need for the graduates of this new program. This packet covers a new College Credit Certificate, Automation.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4.3. Lean Manufacturing CCC

Not FA eligible

Effective: August 2019 (2020-1)

Lean Manufacturing CCC (CIP: 0615061302)		
Course Prefix/Number	Course Title	Credit Hours
Required Courses		
ETI 2110	Introduction to Quality Assurance	3

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ETS 2352C	Materials and Manufacturing Processes	3
ETI 2622C	Concepts of Lean Manufacturing and Six Sigma	3
Elective Courses - Choose one course from below:		
EGN 2440C	Probability and Statistics for Engineers	3
ETD 2941	Engineering Technology Internship	3
ETI 2644	Advanced Manufacturing Supply Chain	3
Total		12 credits

Justification: As part of the Florida Job Growth Grant, we are expanding existing Engineering Technology program with a new concentration, Advanced Manufacturing, and adding new CCCs within this new concentration. The job marketplace, our industry and business partners, as well as State entities are in need for the graduates of this new program. This packet covers a new College Credit Certificate, Lean Manufacturing.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4.4. Mechatronics CCC

FA

Effective: August 2019 (2020-1)

Mechatronics CCC (CIP: 0615000013)		
Course Prefix/Number	Course Title	Credit Hours
ETI 1701	Environmental Health and Safety	3
ETS 2352C	Materials and Manufacturing Processes	3
CET 2117C	Microprocessors and Digital Logic	3
CET 2127C	Programmable Logic Controllers	3
ETS 2520C	Process Measurement Fundamentals	3
ETS 2530C	Process Control Technology	3
ETS 2700C	Fluid and Pneumatic Controls	3
ETS 2680C	Mechatronics	3
ETI 2402C	Advanced Manufacturing Technology	3
EGN 2440C	Probability and Statistics for Engineers	3
Total		30 credits

Justification: As part of the Florida Job Growth Grant, we are expanding existing Engineering Technology program with a new concentration, Advanced Manufacturing, and adding new CCCs within this new concentration. The job marketplace, our industry and business partners, as well as State entities are in need for the graduates of this new program. This packet covers a new College Credit Certificate, Mechatronics.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

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4.5. Low Voltage Technician PSAV

FA

Effective: August 2019 (2020-1)

Low Voltage Technician PSAV (CIP: 0647010106)		
Course Prefix/Number	Course Title	Clock Hours
BCV 0604C	Level 1 Low Voltage Technician	150 clock hours
EEV 0020C	Level 2 Low Voltage Technician	150 clock hours
EEV 0170C	Level 3 Low Voltage Technician	150 clock hours
EEV 0700C	Level 4 Low Voltage Technician	150 clock hours
EEV 0710C	Level 5 Low Voltage Technician	150 clock hours
	<i>Total</i>	<i>750 clock hours</i>

Justification: This program focuses not only on broad, transferable skills but also on highly technical applied trades skills and stresses understanding and demonstration of trades skills concepts that include OSHA 10 safety, classroom and laboratory skills training. This program includes marketable skills necessary for the Low Voltage Technician trade. With changes in the economy as well the demand for high technical skills to enter the low voltage industry, this program offers a career pathway that responds to the portended critical shortage of technically trained entry level tradesmen. Palm Beach State College is an ACCREDITED TRAINING AND EDUCATION FACILITY (ATEF) for the National Center for Construction Education and Research (NCCER). Program completers will receive certifications from NCCER for their employment portfolio.

Presenter: Brent Ebner

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4.6. Automotive Maintenance and Light Repair PSAV CIP: 0647060422

FA

Effective: August 2019 (2020-1)

Automotive Maintenance and Light Repair PSAV (CIP: 0647060422)		
Course Number	Title	Clock Hours
AER 0025	Maintenance and Light Repair Technician 1	150 clock hours
AER 0026	Maintenance and Light Repair Technician 2	150 clock hours
AER 0027	Maintenance and Light Repair Technician 3	150 clock hours
AER 0028	Maintenance and Light Repair Technician 4	150 clock hours
	<i>Total</i>	<i>600 clock hours</i>

Justification: The proposed program will address training needs of Palm Beach County industry in the broad area of automotive entry level mechanics. This program will include theory and lab assignments mirroring the industry needs. This is a large and growing occupational area with significant numbers of current and forecasted job openings. The program will be offered as a crossover program for the graduates of the Diesel Service Technology, that have been asking for a faster route to obtain the basic automotive knowledge.

The ASE Advisory Committee for the automotive and diesel programs have been recommending this program for more than a year based on the existing necessity of these entry level mechanics. Also, meetings with business partners from the community and with the local industry have been in process for more than a year and are ongoing. The curriculum frameworks have been discussed with industry and have been approved.

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Presenter: Eligio Marquez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4.7. Diesel Maintenance Technician PSAV CIP: 0647060515 FA

Effective: August 2019 (2020-1)

Course Number	Title	Clock Hours
DIM 0101	Diesel Engine Mechanic/Technician Helper	150 clock hours
DIM 0131	Diesel Air Brakes Technician	150 clock hours
DIM 0153	Diesel Maintenance Service Technician	300 clock hours
<i>Total</i>		<i>600 clock hours</i>

Justification: The proposed program will address training needs of Palm Beach County industry in the broad area of diesel entry level mechanics. This program will include theory and lab assignments mirroring the industry needs. This is a large and growing occupational area with significant numbers of current and forecasted job openings. The program will be offered as a crossover program for the graduates of the Automotive Service Technology, that have been asking for a faster route to obtain the basic diesel knowledge.

The ASE Advisory Committee for the automotive and diesel programs have been recommending this program for more than a year based on the existing necessity of these entry level mechanics. Also, meetings with business partners from the community and with the local industry have been in process for more than a year and are ongoing. The curriculum frameworks have been discussed with industry and have been approved.

Presenter: Eligio Marquez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

4.8. Marine Service Technology PSAV (CIP: 0647061611) FA

Effective: August 2019 (2020-1)

Course Number	Title	Clock Hours
MTE 0001	Introduction to Marine Service Technologies (OCP A1)	150 clock hours
MTE 0003	Marine Rigger (OCP A2)	150 clock hours
MTE 0090	Outboard Engine Technician (OCP B)	300 clock hours
MTE 0056	Inboard Diesel Engine Technician (OCP F)	300 clock hours
MTE 0092	Inboard Gas Engine Technician (OCP D)	150 clock hours
MTE 0074	Outboard and Inboard Engine Diagnostics Technician (OCP C)	150 clock hours
MTE 0093	Drive Train Technician (OCP E)	150 clock hours
<i>Total</i>		<i>1350 clock hours</i>

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Justification: According to the Florida DEO Marine Industry Gaps and Job Vacancy Survey there are approximately 1,800 South Florida employers in the industry, accounting for about 28,000 direct jobs. The survey measured 1,352 currently unfilled jobs mostly due to hard and soft skills gaps.

In the research done in PBC there is a high demand for marine technicians. The average wage for these technicians is \$21.00 per hour. There are big and small marine industry companies in need of these technicians.

Presenter: Eligio Marquez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

5. Revised Programs

5.1. Electrical Power Technology AS (2270) (CIP: 1615030301)

FA

Effective: August 2019 (2020-1)

Electrical Power Technology AS					
Current Program List			Proposed Program List		
<i>Credit Program Title: Electrical Power Technology</i>			<i>Credit Program Title: Electrical Power Technology</i>		
General Education Requirements- 18 credits			General Education Requirements- 18 credits		
18 credits			No change		
Required Courses- 40 credit hours			Required Courses- 40 credit hours		
EET1015C DC Circuit Analysis, 3 credit hours EET1025C AC Circuit Analysis, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours EVS2015 Writing for Science -or- EVR2266 Survey of Environmental Mapping/GIS/Remote Sensing, 3 credit hours ETP1322 Electrical Power System, 3 credit hours ETI1000 Industrial Tools and Equipment, 3 credit hours EET1215C Introduction to Electronics, 3 credit hours CET2123C Microprocessors 1, 3 credit hours CET2127C Microprocessors 2, 3 credit hours ETS2700C Fluid and Pneumatic Controls, 3 credit hours ETS2530C Process Control Technology, 3 credit hours EET2930C Special Topics in Electrical Engineering, 4 credit hours ETS2520C Process Measurement Fundamentals, 3 credit hours			EET1015C DC Circuit Analysis, 3 credit hours EET1025C AC Circuit Analysis, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours EVS2015 Writing for Science -or- EVR2266 Survey of Environmental Mapping/GIS/Remote Sensing, 3 credit hours ETP1322 Electrical Power System, 3 credit hours ETI1000 Industrial Tools and Equipment, 3 credit hours EET1215C Introduction to Electronics, 3 credit hours CET2117C Microprocessors and Digital Logic, 3 credit hours CET2127C Programmable Logic Controllers, 3 credit hours ETS2520C Process Measurement Fundamentals, 3 credit hours ETS2530C Process Control Technology, 3 credit hours ETS2700C Fluid and Pneumatic Controls, 3 credit hours EET2930C Special Topics in Electrical Engineering, 4 credit hours		
Elective Courses- 10 credit hours			Elective Courses- 10 credit hours No Change		
Credit Programs		Total General Education Courses Credits		18	
Total Required Course Credits	40	Total Elective Credits	10	Total Program Credits	68

Justification: Changes in a course number and descriptions require the revision of the program.

Presenter: Oleg Andric and Eva Suarez

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Discussion:

Data sources consulted: Curriculum Support Documents

Action:

5.2. Engineering Technology AS - Advanced Technology Concentration (2550C) (CIP: 1615000001)

FA

Effective: August 2019 (2020-1)

Engineering Technology AS - Advanced Technology Concentration					
Current Program List			Proposed Program List		
<i>Credit Program Title: Engineering Technology – Advanced Technology</i>			<i>Credit Program Title: Engineering Technology – Advanced Technology</i>		
General Education Requirements- 18 credits			General Education Requirements- 18 credits		
18 credits			No change		
Required Courses-			Required Courses-		
Core Courses Credits: 33 ETI1701 Environmental Health and Safety, 3 cr. ETM1010C Mechanical Measurements and Instruments, 3 cr. ETI2110 Introduction to Quality Assurance, 3 cr. ETI1830 Materials and Processes, 3 cr. ETD2320C Introduction to AutoCAD, 3 cr. EET1084C Electrical Circuits and Electronics, 3 cr. EET2325C Electronics Communication Systems, 3 cr. ETD2364C SolidWorks Fundamentals, 3 cr. ETI2851C Applied Mechanics, 3 cr. ETS2520C Process Measurement Fundamentals, 3 cr. ETI2121C Non-Destructive and Destructive Testing, 3 cr.			Core Courses Credits: 33 ETI1701 Environmental Health and Safety, 3 cr. ETM1010C Mechanical Measurements and Instruments, 3 cr. ETI2110 Introduction to Quality Assurance, 3 cr. ETS2352C Materials and Manufacturing Processes, 3 cr. ETD2320C Introduction to AutoCAD, 3 cr. EET1084C Electrical Circuits and Electronics, 3 cr. EET2325C Electronics Communication Systems, 3 cr. ETD2364C SolidWorks Fundamentals, 3 cr. ETI2851C Applied Mechanics, 3 cr. ETS2520C Process Measurement Fundamentals, 3 cr. ETI2121C Non-Destructive and Destructive Testing, 3 cr.		
Elective Courses- Technical Electives - Choose 9 credits ETI1622 Concepts of Lean Manufacturing & Six Sigma, 2 cr. ETD2218C Geometric Dimensioning & Tolerancing, 2 cr. ETD2340C AutoCAD 2, 3 cr. ETD2355C AutoCAD 3D Modeling, 3 cr. ETD2371C Introduction to 3D Printing, 3 cr. ETD2372C Advanced Rapid Prototyping, 3 cr. ETD2950C Special Topics in Engineering Tech, 4 cr. ETD2941 Engineering Technology Internship, 3 cr.			Elective Courses- Technical Electives - Choose 9 credits ETI2622C Concepts of Lean Manufacturing & Six Sigma ETD2218C Geometric Dimensioning and Tolerancing ETD2340C AutoCAD 2 ETD2371C Introduction to 3D Printing ETD2372C Advanced Rapid Prototyping ETD2950C Special Topics in Engineering Technology ETD2941 Engineering Technology Internship EGN2440C Probability and Statistics for Engineers ETI2645C Advanced Manufacturing Supply Chain ETD1102 Technical Drawing		
Credit Programs:		Total General Education Courses Credits:		18	
Total Required Course Credits	33	Total Elective Credits	9	Total Program Credits	60

Justification: Changes in a course number and descriptions require the revision of the program.

Presenter: Oleg Andric and Eva Suarez

Discussion:

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Data sources consulted: Curriculum Support Documents

Action:

5.3. Engineering Technology AS – Alternative Energy Systems Concentration (2550A) (CIP: 1615000001)

FA

Effective: August 2019 (2020-1)

Engineering Technology AS – Alternative Energy Systems Concentration			
Current Program List		Proposed Program List	
<i>Credit Program Title: Engineering Technology - Electronics</i>		<i>Credit Program Title: Engineering Technology - Electronics</i>	
General Education Requirements- 18 credits		General Education Requirements- 18 credits	
18 credits		No change	
Required Courses-		Required Courses-	
Core Courses Credits: 18 ETM1010C Mechanical Measurements and Instruments, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours ETI2110 Introduction to Quality Assurance, 3 credit hours EET2325C Electronic Communications Systems, 3 credit hours Required Concentration Courses Credits: 17		Core Courses Credits: 18 ETM1010C Mechanical Measurements and Instruments, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours ETI2110 Introduction to Quality Assurance, 3 credit hours ETS2352C Materials and Manufacturing Processes, 3 credit hours ETD2320C Introduction to AutoCAD, 3 credit hours EET2325C Electronic Communications Systems, 3 credit hours Required Concentration Courses Credits: 17 No Change	
Elective Courses- Technical Electives - Choose 7 credits		Elective Courses- Technical Electives - Choose 7 credits	
No Change		No Change	
Credit Programs:		Total General Education Courses Credits:	
18		18	
Total Required Course Credits	35	Total Elective Credits	7
		Total Program Credits	60

Justification: Changes in a course number and descriptions require the revision of the program.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

5.4. Engineering Technology AS – Electronics Concentration (2550B) (CIP: 1615000001)

FA

Effective: August 2019 (2020-1)

Engineering Technology AS – Electronics Concentration	
Current Program List	Proposed Program List

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<i>Credit Program Title: Engineering Technology - Electronics</i>		<i>Credit Program Title: Engineering Technology - Electronics</i>			
General Education Requirements- 18 credits		General Education Requirements- 18 credits			
18 credits		No change			
Required Courses-		Required Courses-			
Core Courses Credits: 18 ETM1010C Mechanical Measurements and Instruments, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours ETI2110 Introduction to Quality Assurance, 3 credit hours ETI1830 Materials and Processes 1, 3 credit hours ETD2320C Introduction to AutoCAD, 3 credit hours EET2325C Electronic Communications Systems, 3 credit hours Required Concentration Courses Credits: 15 EET1015C DC Circuit Analysis, 3 credit hours EET1025C AC Circuit Analysis, 3 credit hours EET1215C Introduction to Electronics, 3 credit hours CET2123C Microprocessors 1, 3 credit hours CET2127C Microprocessors 2, 3 credit hours		Core Courses Credits: 18 ETM1010C Mechanical Measurements and Instruments, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours ETI2110 Introduction to Quality Assurance, 3 credit hours ETS2352C Materials and Manufacturing Processes, 3 credit hours ETD2320C Introduction to AutoCAD, 3 credit hours EET2325C Electronic Communications Systems, 3 credit hours Required Concentration Courses Credits: 15 EET1015C DC Circuit Analysis, 3 credit hours EET1025C AC Circuit Analysis, 3 credit hours EET1215C Introduction to Electronics, 3 credit hours CET2117C Microprocessors and Digital Logic, 3 credit hours CET2127C Programmable Logic Controllers, 3 credit hours			
Elective Courses- Technical Electives - Choose 9 credits EET2724C Schematic Capture and Modeling, 3 credit hours EET1610C Through-Hole Surface Mount Soldering, 2 credit hours EET2620C Advanced Surface Mount Soldering Technology, 2 credit hours EET1141C Analog Devices, 3 credit hours EET1142C Analog Circuits, 3 credit hours EET2609C Electronic Fabrication and Fiber Optics, 3 credit hours ETD2950C Special Topics in Engineering Technology, 4 credit hours ETD2941 Engineering Technology Internship, 3 credit hours		Elective Courses- Technical Electives - Choose 9 credits EET2724C Schematic Capture and Modeling, 3 credit hours EET1610C Through-Hole Surface Mount Soldering, 2 credit hours EET2620C Advanced Surface Mount Soldering Technology, 2 credit hours EET1141C Analog Devices, 3 credit hours EET1142C Analog Circuits, 3 credit hours CET2113C Digital Electronics, 3 credit hours ETS2520C Process Measurement Fundamentals EET2609C Electronic Fabrication and Fiber Optics, 3 credit hours ETD2950C Special Topics in Engineering Technology, 4 credit hours ETD2941 Engineering Technology Internship, 3 credit hours			
Credit Programs:		Total General Education Courses Credits:		18	
Total Required Course Credits		33	Total Elective Credits	9	Total Program Credits
					60

Justification: Changes in a course number and descriptions require the revision of the program.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

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5.5. Engineering Technology Support Specialist CCC (6551) (CIP: 0615000007)

FA

Effective: August 2019 (2020-1)

Engineering Technology Support Specialist CCC					
Current Program List			Proposed Program List		
<i>Credit Program Title: Engineering Technology Support Specialist</i>			<i>Credit Program Title: Engineering Technology Support Specialist</i>		
General Education Requirements-			General Education Requirements-		
None			None		
Required Courses-			Required Courses-		
ETM1010C Mechanical Measurements and Instruments, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours ETI2110 Introduction to Quality Assurance, 3 credit hours EET1084C Electrical Circuits and Electronics, 3 credit hours Or EET1015C DC Circuit Analysis, 3 credit hours ETD2320C Introduction to AutoCAD, 3 credit hours ETH830 Materials and Processes 1, 3 credit hours			ETM1010C Mechanical Measurements and Instruments, 3 credit hours ETI1701 Environmental Health and Safety, 3 credit hours ETI2110 Introduction to Quality Assurance, 3 credit hours EET1084C Electrical Circuits and Electronics, 3 credit hours Or EET1015C DC Circuit Analysis, 3 credit hours ETD2320C Introduction to AutoCAD, 3 credit hours ETS2352C Materials and Manufacturing Processes, 3 credit hours		
Elective Courses- None			Elective Courses- None		
Credit Programs:		Total General Education Courses Credits:		0	
Total Required Course Credits	18	Total Elective Credits	0	Total Program Credits	18

Justification: Changes in a course number and descriptions require the revision of the program.

Presenter: Oleg Andric and Eva Suarez

Discussion:

Data sources consulted: Curriculum Support Documents

Action:

V. CURRICULUM COMMITTEE BUSINESS

A. General Education Council

a. Presenter: Dr. Karen Pain or Professor Tom Cznarty

i. Justification:

ii. Discussion:

iii. Action:

VI. MOTION TO DISMISS

Discussion: NA

**Palm Beach State College
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Action:

Curriculum Development Session immediately following adjournment.

The Curriculum Agendas and Minutes are at www.palmbeachstate.edu/curriculum-development

The Curriculum Committee meetings will be held in **CE 119** in Lake Worth and will be available for members and presenters in the reserved conference rooms at the other college locations. (Belle Glade TEC220, Boca Raton **AD 306**, Lake Worth ETA 101, Loxahatchee LGA 216, and Palm Beach Gardens AD 207)

Attendance	Faculty and Instructors
	Cynthia Alexandre, Mathematics – CHAIR 3rd Year LW
	Emmanuel Alvarado, Spanish – 2nd Year PBG
	Tina Collins, Nursing – 1st Year LW
	Robin D’Agati, Accounting – 2nd Year LW
	Timothy Finamore, Math – 2nd Year BR
	Paul Friedman, Public Safety - 1st Year LW
	Sabrina Greenwell, Social Science – 1st Year LW
	Marcy Katz, English/LIT – 1st Year LW
	Eligio Marquez, Trade & Industry – 1st Year LW
	Daniel Neff, Trade & Industry – 2nd Year LW
	Trineshia Sellars, Chemistry – 2nd Year LW
	Juliett Tracey, Business – 1st Year LW
	Administrative Members
	Dr. Velmarie Albertini, Dean Curriculum District (Non-voting)
	Mike Sfiropoulos, Interim Academic Associate Dean LW
	Michelle Williams, Campus Registrar BG & Lox
	Teresa Armas, Financial Aid Associate Director
	Peter Biegel, Interim Campus Registrar
	Kathleen Karran-Mccoy, Interim Dean Student Development
	Christi White, Academic Services (Non-voting)

Presenters:

Dr. Don Gladney, Bachelor’s Programs

Ms. Lourdes (Luli) Marx, Developmental Education, EAP Courses

Mr. Chad Crouse, EMT/Firefighter Combination PSAV

Mr. Oleg Andric and **Ms. Eva Suarez**, Engineering Technology AS- Adv Manufacturing Concentration, Engineering Technology AS- Advanced Technology Concentration, Engineering Technology AS- Alternative Energy Systems Concentration, Engineering Technology AS – Electronics Concentration, Electrical Power Technology AS, Engineering Technology Support Specialist, Automation CCC, Lean Manufacturing CCC, Mechatronics CCC, and associated programs and courses

Mr. Brent Ebner, Low Voltage Technician PSAV

Mr. Eligio Marquez, Automotive Maintenance and Light Repair PSAV, Diesel Maintenance PSAV, Marine Service Technology PSAV

Dr. Karen Pain or **Professor Tom Cznarty**

Guests:

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Degree Type	Program Action			Course Action		
	New	Rev	Delete	New	Rev	Delete
BAS/BS	-	3	-	-	-	-
AA	-	-	-	-	-	-
AS	1	5	-	9	5	2
ATC	-	-	-	-	-	-
ATD	-	-	-	-	-	-
CCC	3	-	-	-	-	-
College Prep	-	-	2	-	-	-
PSAV	4	1	-	19	-	-
TOTAL	8	9	2	28	5	2