

Curriculum Committee



New Course Proposal

School or Division	School of Business and Technology
Program or Certificate	Aviation Airframe Mechanics (PSAV) Program Number – T640300 CIP Number - 0647060703
Proposed by (faculty only)	Professor Leroy Bugger
Presenter (faculty only)	Professor Leroy Bugger
Note that the presenter (faculty) listed above must be present at the Curriculum Committee meeting or the proposal will be returned to the School or Division and must be submitted for a later date.	
Submission date	10/12/2017
Course prefix, number, and title	AMT 0717 Aviation Maintenance Technology Airframe IV

Section I, New Course Information (must complete all items)

List course prerequisite(s) and minimum grade(s) (must include minimum grade if higher than a "D").	Admission into the Aviation Airframe Powerplant (PSAV) program and successful completion of AVM 0714 with a minimum grade of a "C." Must have a minimum of "C" in this course to pass.
Provide justification for the proposed prerequisite(s).	This is a limited access and limited enrollment program.
Will students be taking any of the prerequisites listed for this course in different parts of the same term (ex. Term A and Term B)?	No
List course co-requisites.	NA
Provide justification for the proposed co-requisite(s).	NA
Is any co-requisite for this course listed as a co-requisite on its paired course? (Ex. CHM 2032 is a co-requisite for CHM 2032L, and CHM 2032L is a co-requisite for CHM 2032)	No NA
Course credits or clock hours	225 clock hours
Contact hours (faculty load)	225 clock hours
Select grade mode	Standard Grading (A, B, C, D, F)

Credit type	Vocational Credit
Course description (provide below)	
This course is designed to introduce skills and the necessary knowledge and understanding of aircraft airframe fuel, ice and rain control and fire detection, protection and extinguishing systems; instrument, position and warning, pilot static, and communications and navigation systems; and aircraft inspections.	

General topic outline (type in outline below)
<ul style="list-style-type: none"> • Aircraft airframe fuel, ice and rain control and fire detection, protection and extinguishing systems • Instrument, position and warning, pilot static, and communication and navigation systems • Aircraft inspections

Learning Outcomes: For information purposes only.

IV. Course Competencies, Learning Outcomes and Objectives

A. General Education Competencies and Course Outcomes

1. Integral *General Education Competency or competencies*: Evaluate

- Inspect, check, and troubleshoot aircraft electronic communication and navigation systems, including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS, LORAN, Radar beacon transponders, flight management computers, and GPWS.

B. Other Course Objectives/Standards

- Inspect, check, troubleshoot, service, and repair electronic flight instrument systems and both mechanical and electrical heading, speed, altitude, temperature, pressure, and position indicating systems to include the use of built-in test equipment.
- Install instruments and perform a static pressure system leak test.
- Inspect and repair antenna and electronic equipment installations.
- Check and service fuel dump systems.
- Perform fuel management transfer, and defueling.
- Inspect, check, and repair pressure fueling systems.
- Repair aircraft fuel system components.
- Inspect and repair fluid quantity indicating systems.
- Troubleshoot, service, and repair fluid pressure and temperature warning systems.

- Inspect, check, service, troubleshoot, and repair aircraft fuel systems.
- Inspect, check, and service speed and configuration warning systems, electrical brake controls, and anti-skid systems.
- Inspect, check, troubleshoot, and service landing gear position indicating and warning systems.
- Inspect, check, troubleshoot, service, and repair airframe ice and rain control systems
- Inspect, check, and service smoke and carbon monoxide detection systems.
- Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems.
- Perform airframe conformity and airworthiness inspections.

Copy and Paste the SCNS Course Profile Description below (http://scns.fldoe.org/scns/public/pb_index.jsp).

THIS COURSE IS DESIGNED TO INTRODUCE SKILLS AND THE NECESSARY KNOWLEDGE AND UNDERSTANDING OF AIRCRAFT AIRFRAME FUEL, ICE AND RAIN CONTROL AND FIRE DETECTION, PROTECTION AND EXTINGUISHING SYSTEMS; INSTRUMENT, POSITION AND WARNING, PITOT-STATIC, AND COMMUNICATIONS AND NAVIGATION SYSTEMS; AND AIRCRAFT INSPECTIONS.

ICS code for this course	POSTSECONDARY ADULT VOCATIONAL (PSAV) - 1.26.02 - INDUSTRIAL
Should any major restriction(s) be listed on this course? If so, select "yes" and list the appropriate major restriction code(s) or select "no".	Yes PSAV
Is the course an "International or Diversity Focus" course?	No, not International or Diversity Focus
Is the course a General Education course?	No
Is the course a Writing Intensive course?	No

<p>Is the course repeatable*?</p> <p>(A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3 credit hour course can be repeated 1 time and a student can earn a maximum of 6 credits).</p> <p>*Not the same as Multiple Attempts or Grade Forgiveness</p>	No
<p>Do you expect to offer this course three times or less (experimental)?</p>	No

<p>Impact of Course Proposal</p>	
<p>Will this new course proposal impact other courses, programs, departments, or budgets?</p>	No
<p>If the answer to the question above is “yes”, list the impact on other courses, programs, or budgets?</p>	
<p>Have you discussed this proposal with anyone (from other departments, programs, or institutions) regarding the impact? Were any agreements made? Provide detail information below.</p>	
<p>NA</p>	

Section II, Justification for proposal

<p>Provide justification (below) for this proposed curriculum action.</p>
<p>This course is part of a program being proposed to provide needed workforce credentialing to fill the gap and shortage of qualified aviation technicians, which is forecast to become more acute as a greater number of technicians retire than enter the field. In fact, according to a study commissioned by Boeing, commercial aviation will require 238,000 new technicians worldwide over the next 20 years, with North America accounting for 113,000 new technicians, almost 50% of total demand. According to an analysis prepared by EMSI, the job market in SWFL for A&P technicians is fairly strong, averaging 20 monthly postings and 47 monthly hires from April of 2013 through April of 2015. A&P technicians enjoy high average hourly earnings of greater than \$24/hr. The total economic impact of the program 10 years after implantation is forecast to be \$118.2 million and the average lifetime earnings for individual technicians are forecast to be improved (over what they would otherwise have earned) of roughly \$525,000 in today’s net present value dollars (for Airframe and</p>

Powerplant mechanics combined), so the economic development implications are quite significant. Graduates of similar programs are actively recruited not only by the aviation industry, but also by industries as diverse as elevator installation/repair and amusement park ride repair as the skills sets and particular attention to detail engendered by the A&P curriculum are essential in those industries, as well.

Section III, Important Dates and Endorsements Required

List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).

Leroy Bugger (Department Chair), Dr. Tim Lucas, Jennifer Patterson, Andrew Blitz

NOTE: Course and Program changes must be submitted by the dates listed on the published Curriculum Committee Calendar. Exceptions to the published submission deadlines must receive prior approval from the Provost's Office.

Term in which approved action will take place	Fall 2018
Provide an explanation below for the requested exception the submission deadline.	

Any exceptions to the term start date requires the signatures of the Academic Dean or Associate Vice President and the Provost prior to submission.		
Dean or Associate Vice President	Signature	Date
Type name here		
Provost	Signature	Date
Dr. Jeff Stewart		

Required Endorsements	Type in Name	Select Date
Department Chair or Program Coordinator/Director	Professor Leroy Bugger	10/13/2017
Academic Dean or Associate Vice President	Dr. Tom Rath	10/13/2017

Select Curriculum Committee Meeting Date	11/03/17
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All Curriculum proposals require approval of the Curriculum Committee and the Provost. Final approval or denial of a proposal is reflected on the completed and signed proposal.

Approve Do not approve (ATM0717)

May P. Myers
Curriculum Committee Chair Signature

11/8/17
Date

Approve Do not approve

Jeff Stewart
Provost Signature

11/13/17
Date