Curriculum Committee





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 0713		
	Aviation Maintenance Technology Airframe II		

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

List course prerequisite(s) and minimum	Admission into the Aviation Airframe Powerplant		
grade(s) (must include minimum grade if higher	(PSAV) program and successful completion of AVM		
than a "D").	0712 with a minimum grade of a "C." Must have a		
	_		
	minimum of "C" in this course to pass.		
Provide justification for the proposed	This is a limited access and limited enrollment		
prerequisite(s).	program.		
Will students be taking any of the prerequisites	No		
listed for this course in different parts of the			
same term (ex. Term A and Term B)?			
List course co-requisites.	NA		
Provide justification for the proposed co-	NA		
requisite(s).			
Is any co-requisite for this course listed as a co-	No		
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)	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 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 Powerplant mechanics combined), so the economic development implications are quite significant. Gradates 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.

General topic outline (type in outline below)

- Aircraft finishes and fabric covering
- Assembly and repair of sheet metal structures
- Aircraft welding techniques

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: Communicate
 - Explain the processes involved in fabrication of tubular steel structures.

B. Other Course Objectives/Standards

- Identify, select, install, and remove hardware, materials, rivets, and special fasteners on metallic, bonded, and composite structures.
- Install conventional rivets.
- Inspect bonded structures.
- Inspect and repair sheet-metal structures.
- Form, lay out and bend sheet metal structures.
- Inspect and repair sheet metal structures.
- Understand and explain the processes of welding magnesium, aluminum, stainless steel, and titanium.
- Explain the process of soldering stainless steel.
- Solder, braze, gas weld, and arc weld steel.
- Inspect and check welds.

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 FINISHES AND FABRIC COVERING, ASSEMBLY AND REPAIR OF SHEET METAL STRUCTURES, AND INTRODUCTION TO AIRCRAFT WELDING TECHNIQUES.

ICS code for this course	POSTSECONDARY ADULT VOCATIONAL (PSAV) -
	1.26.02 - INDUSTRIAL
Should any major restriction(s) be listed on this	Yes
course? If so, select "yes" and list the	PSAV
appropriate major restriction code(s) or select "no".	
Is the course an "International or Diversity	No, not International or Diversity Focus
Focus" course?	
Is the course a General Education course?	No
Is the course a Writing Intensive course?	No
Is the course repeatable*?	No
(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).	
*Not the same as Multiple Attempts or Grade	
Forgiveness	
Do you expect to offer this course three times or	No
less (experimental)?	

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

Section II, Justification for proposal

Provide justification (below) for this proposed curriculum action.	
Type in justification here	

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. 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 Powerplant mechanics combined), so the economic development implications are quite significant. Gradates of similar programs are actively recruited not only by the aviation industry, but also by industries as liverse 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.

Any exceptions to the term start d	ate requires the signatures of the Academic D	ean 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 N	Neeting Date		1/03/17	
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 ATMO713				
May (C. Myss.) Curriculum Committee Chair Sign				8)))(17) Date

Approve

 $\hfill\square$ Do not approve

Provost Signature

Date 14 (3/17