



MEMORANDUM

TO: Curriculum Committee

FROM: Jack Kirby 

DATE: April 29, 2013

SUBJECT: Curriculum Proposal #12-13-68, REVISION #3
BS in Aviation Maintenance Management
Final Faculty Senate Approval 4/23/2013


I recommend approval of the attached REVISION #3 of Curriculum Proposal #12-13-68 from the College of Science and Technology, Department of Technology. This copy is the final draft of the proposal.





MEMORANDUM

TO: Curriculum Committee

FROM: Jack Kirby 

DATE: April 18, 2013

SUBJECT: Curriculum Proposal #12-13-68, REVISION #2
BS in Aviation Maintenance Management

I recommend approval of the attached REVISION #2 of Curriculum Proposal #12-13-68 from the College of Science and Technology, Department of Technology. This proposal is now ready for Faculty Senate.





MEMORANDUM

TO: Curriculum Committee

FROM: Jack Kirby *JKS*

DATE: April 15, 2013

SUBJECT: Curriculum Proposal #12-13-68, REVISION #1
BS in Aviation Maintenance Management

I recommend approval of the attached REVISION #1 of Curriculum Proposal #12-13-68 from the College of Science and Technology, Department of Technology. The proposal has been revised since the original was submitted to the Curriculum Committee; however, it has not been reviewed yet.

This proposal reduces degree hour requirements of the BS in Aviation Maintenance Management to 120 and incorporates the new General Studies requirements.


c: Dr. Christina Lavorata
Dr. Anthony Gilberti
Mr. Thomas Stose
Ms. Evie Brantmayer
Ms. Leslie Lovett





MEMORANDUM

TO: Curriculum Committee

FROM: Jack Kirby 

DATE: April 3, 2013

SUBJECT: Curriculum Proposal #12-13-68
BS in Aviation Maintenance Management

I recommend approval of the attached Curriculum Proposal #12-13-68 from the College of Science and Technology, Department of Technology.

This proposal reduces degree hour requirements of the BS in Aviation Maintenance Management to 120 and incorporates the new General Studies requirements.

c: Dr. Christina Lavorata
Dr. Anthony Gilberti
Mr. Thomas Stose
Ms. Evie Brantmayer
Ms. Leslie Lovett



CURRICULUM PROPOSAL (Submit one hard copy and an electronic copy to the Associate Provost by the second Tuesday of the month.)

Proposal Number: 12-13-68

School/Department/Program: College of Science & Technology/Technology/Aviation

Preparer/Contact Person: Thomas Stose (Maintenance)

Telephone Extension: 367-4201

Date Originally Submitted: 03-12-2013

**Revision (Indicate date and label it
Revision #1, #2, etc.):** _____

Implementation Date Requested: Fall 2013

- I. **PROPOSAL.** Write a brief abstract, not exceeding 100 words, which describes the overall content of the proposal.

This proposal reduces the total hours needed for a B. S. in Aviation Maintenance Management degree from 142 hours to 120 hours beginning Fall 2013. This change also incorporates the new General Studies curriculum into the degree requirements. This will lower the General Studies curriculum from the current 56 hours to 39-41 credits. This reduction was also accomplished by removing two technical core electives and removing the major electives by deletion of the aviation internship class. Additionally, a name change was submitted for AVMA 3307, Aviation Safety to AVMA 3307, Human Factors in Aviation Safety as part of this proposal. The content of the class will remain the same, but the new name more accurately reflects the course content.

- II. **DESCRIPTION OF THE PROPOSAL.** Provide a response for each letter, A-H, and for each Roman Numeral II-V. If any section does not apply to your proposal, reply N/A.

- A. Deletion of course(s) or credit(s) from program(s)
AVMA 4404, Advanced Composite Structures 3 credits
AVMA 4405, Advanced Non-Destructive Testing, 3 credits
Aviation Major Elective was deleted (3 credits).

The AVMA 4411, Aviation Industry Internship, 3 credits was deleted as a requirement, but will be offered as a free elective.

The total hours has also been reduced by incorporating the new General Studies curriculum (not reflected in the deleted credit hours below). The General Studies hours have been reduced from 56 to 39-41. The new total curriculum will be 120 credit hours.

Total hours deleted. 9

- B. Addition of course(s) or credit(s) from program(s)
N/A

Total hours added. 0

C. Provision for interchangeable use of course(s) with program(s)
N/A

D. Revision of course content. Include, as an appendix, a revised course description, written in complete sentences, suitable for use in the university catalog.
N/A

E. Other changes to existing courses such as changes to title, course number, and elective or required status.

We are proposing the change of AVMA 3307 Aviation Safety to AVMA 3307 Human Factors in Aviation Safety. The content will remain the same, but the new title better fits the course objectives.

F. Creation of new course(s). For each new course

1. Designate the course number, title, units of credit, prerequisites (if any), ownership (FSU or shared) and specify its status as an elective or required course. If you are creating a shared course, attach a memo from the Deans of the affected Schools explaining the rationale for the course being shared.
N/A

2. Include, as an appendix, a course description, written in complete sentences, suitable for use in the college catalog.
N/A

3. Include, as an appendix, a detailed course outline consisting of at least two levels.
N/A

4. In order to meet the requirements as outlined in Goal One of the Strategic Plan, please include Outcome Competencies and Methods of Assessment as an appendix. Examples are available upon request from the Chair of the Curriculum Committee.
N/A

G. Attach an itemized summary of the present program(s) affected, if any, and of the proposed change(s). We have attached a copy of the revised degree plan for this program.

Describe how this proposal affects the hours needed to complete this program. Specifically, what is the net gain or loss in hours? Use the format for Current and Proposed Programs in Appendix A.

This will reduce the hours required to complete the degree from 142 hours to 120 hours.

III. **RATIONALE FOR THE PROPOSAL.**

- A. **Quantitative Assessment:** Indicate the types of assessment data, i.e., surveys, interviews, capstone courses, projects, licensure exams, nationally-normed tests, locally developed measurements, accreditation reports, etc., that were collected and analyzed to determine that curricular changes were warranted. Quantitative data is preferred.

An advisory committee made up of graduates over the past fifteen years was surveyed and their input was utilized to make the minor changes to the curriculum. All of the employers in the area are members of the RCB National Aerospace Education Center Technical Advisory Committee that meets twice a year and the school makes regular visits to the employer locations to discuss how graduates are progressing in their career field. The Federal Aviation Administration has nationally recognized tests, both written and practical exams; each student must complete to receive their required ratings.

AVMA 4404 or 4405 were eliminated from the program due to low enrollments and inability to offer them as traditional classes. The material is also covered in the technical core classes. These classes have been difficult to offer due to the low number of students completing the program of study in any single semester. They have been offered via independent study only. Three credits of electives in the technical core were deleted to provide students more flexibility in selecting courses relevant to their educational needs and to meet the new 120 credit hour rule.

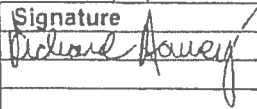
This program falls under the regulation of the Federal Aviation Administration. The student must complete a minimum of 1900 hours of documented training to qualify to take the FAA Aviation Maintenance Technician Certification exams. These multiple exams qualify the technician to work on civilian aircraft in the United States and are one of the prime objectives and outcomes of the degree program.

- B. **Qualitative Assessment:** Based upon the assessment data above, indicate why a curricular change is justified. Indicate the expected results of the change. Be sure to include an estimate of the increased cost, or reduction in cost of implementation. FOR EXAMPLE: Will new faculty, facilities, equipment, or library materials be required?

This reduction in hours will not affect faculty, facilities, equipment or library materials.

- IV. Should this proposal affect any course or program in another school, a memo must be sent to the Dean of each school impacted and a copy of the memo(s) must be included with this proposal. In addition, the Deans of the affected schools must sign below to indicate their notification of this proposal.

By signing here, you are indicating your college's/school's notification of this proposal.

College/School	Dean	Signature
Business/Management	Richard Harvey	

- V. Should this proposal affect any course to be added or deleted from the general studies requirements, a memo from the chair of the General Studies Committee indicating approval of the change must be included with this proposal.

- VI. **ADDITIONAL COMMENTS.**

APPENDIX A
B.S Degree in Aviation Maintenance Management
Current Program

Required Major Courses			HRS
AVMT	1101	Introduction to Aviation Maintenance	3
AVMT	1102	Aircraft Regulations & Publications	3
AVMT	1103	Aviation Shop Practices	3
AVMT	1105	Aircraft Utility Systems	3
AVMT	1109	Aviation Electronics	3
AVMT	2211	Aircraft Avionics & Information Systems	3
AVMT	2201	Reciprocating Engines & Systems	3
AVMT	2202	Aircraft Sheet Metal Structures	3
AVMT	2203	Recip. Engine Maintenance & Return to Service	5
AVMT	2204	Aircraft Propeller & Control Systems	3
AVMT	2205	Turbine Engines & Systems	3
AVMT	2206	Aircraft Fluid Power & Landing Gear Systems	3
AVMT	2207	Turbine Engine Maintenance & Inspection	3
AVMT	2208	Cabin Atmosphere control Systems	3
AVMT	2209	Airframe Inspection & Flight Control Systems	3
AVMT	2210	Non-Metallic Structures	3
AVIO	1110	Aircraft Power Generation & Distribution Systems	3
AVMA	4404	Advance Composite Structures	3
	or		
	4405	Advanced Non-Destructive Testing	
TOTAL Technical Core Required Major Courses			56
AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3303	Airline Operations	3
AVMA	3304	Aviation Maintenance Management	3
AVMA	3305	General Aviation Operations	3
AVMA	3307	Human Factors in Aviation Safety	3
AVMA	4402	Fiscal Aspects of Aviation	3
MGMT	2209	Principles of Management	3
MGMT	3390	Organizational Behavior	3
TOTAL Aviation Common Core Classes			27
AVMA	XXXX	Aviation Elective (4401/4403/4411/4998)	3
			(Complete only one course)
Major Electives			3
TOTAL HOURS FOR MAJOR			86
Required General Studies Courses			
First Year Experience			15
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts and Applications	3
MATH	1101	Applied Technical Math	3

MATH	1102	Applied Technical Math II		3
COMM	2200	Intro. to Human Communication		
	2201	Intro. to Group Discussion		
	2202	Intro. to Communication in the Workplace (1)	3	
COMP	1101	Applied Technical Programming		3
Scientific Discovery				8
Cultural / Civilization Exploration				9
Society / Human Interactions				9
Artistic / Creative Expression				6
TOTAL GENERAL STUDIES HOURS				56
TOTAL FREE ELECTIVES				0
TOTAL HOURS				142

B.S. Degree in Aviation Maintenance Management
Proposed Program

Required Major Courses				HRS
AVMT	1101	Introduction to Aviation Maintenance		3
AVMT	1102	Aircraft Regulations & Publications		3
AVMT	1103	Aviation Shop Practices		3
AVMT	1105	Aircraft Utility Systems		3
AVMT	1109	Aviation Electronics		3
AVMT	2201	Reciprocating Engines & Systems		3
AVMT	2202	Aircraft Sheet Metal Structures		3
AVMT	2203	Recip. Engine Maintenance & Return to Service		5
AVMT	2204	Aircraft Propeller & Control Systems		3
AVMT	2205	Turbine Engines & Systems		3
AVMT	2206	Aircraft Fluid Power & Landing Gear Systems		3
AVMT	2207	Turbine Engine Maintenance & Inspection		3
AVMT	2208	Cabin Atmosphere control Systems		3
AVMT	2209	Airframe Inspection & Flight Control Systems		3
AVMT	2210	Non-Metallic Structures		3
AVMT	2211	Aircraft Avionics & Information Systems		3
AVIO	1110	Aircraft Power Generation & Distribution Systems		3
TOTAL Technical Core Courses				53
AVMA	3301	Aviation History		3
AVMA	3302	Aviation Law		3
AVMA	3303	Airline Operations		3
AVMA	3304	Aviation Maintenance Management		3
AVMA	3305	General Aviation Operations		3
AVMA	3307	Human Factors in Aviation Safety		3
AVMA	4402	Fiscal Aspects of Aviation		3
MGMT	2209	Principles of Management		3
MGMT	3390	Organizational Behavior		3

TOTAL HOURS FOR MAJOR**80****Required General Studies Courses**

Attribute IA – Critical Analysis		3
	ENGL 1108	
Attribute IB – Quantitative Literacy		3
	MATH 1101 or 1112	
Attribute IC – Written Communication		3
	ENGL 1104	
Attribute ID – Teamwork		3
	MANF 2250	
Attribute IE – Information Literacy		X
	Met in IA with ENGL 1108	
Attribute IF – Technology Literacy		3
	TECH 1100 or BISM 1200 or ENGL 1109	
Attribute IG – Oral Communication		3
	COMM 2200 or 2201 or 2202	
Attribute III – Citizenship		3
	POLI 1103	
Attribute IV – Ethics		X
	Met in IG with COMM 2200 or 2201 or 2202	
Attribute V – Health		2-3
	Any course in V	
Attribute VI – Interdisciplinary		X
	Met in Attribute III with POLI 1103	
Attribute VIIA – Arts		3
	Any course in VIIA	
Attribute VIIB – Humanities		3
	Any course in VIIB	
Attribute VIIC – Social Sciences		3
	ECON 2200 or 2201 or PSYC 1101 or SOCY 1110	
Attribute VIID - Natural Science		4
	PHYS 1101	
Attribute VIII – Cultural Awareness		3
	Any course in VIII	
Additional General Studies hours		0

TOTAL GENERAL STUDIES HOURS**39-40****TOTAL FREE ELECTIVES****0-1****TOTAL HOURS****120**