



*Approved by the Curriculum Committee on April 7<sup>th</sup>, 2020*

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**MEMORANDUM**

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TO: Faculty Senate

FROM: Susan Ross

DATE: April 7, 2020

SUBJECT: Curriculum Proposal #19-20-22

The purpose of this proposal is to revise the Aviation Program at Fairmont State University by incorporating changes in the aviation course pathways to more accurately reflect industry trends. We plan to change the degree program name to B.S. in Aviation and revise the course curriculum. The major adjustments include the following:

- (1) Develop a strong core of courses for all students pursuing a B. S. in Aviation
- (2) Develop two concentrations: (a) Aviation Management and (b) Professional Flight
- (3) Terminate the Aviation Maintenance Management option from the program
- (4) Terminate the Minor in Aviation Administration

cc: Richard Harvey  
Lori Schoonmaker  
Laura Ransom  
Cheri Gonzalez  
Jason Vosburgh

CURRICULUM PROPOSAL  
FOR  
**BACHELOR OF SCIENCE IN  
AVIATION DEGREE**

FEBRUARY 1, 2020  
REVISION #1 – MARCH 26, 2020



*Submitted by:*

**Mr. Jason Vosburgh, Assistant Professor of Aviation, Chair, Department of Aviation**  
**Mr. Dennis Elliott, Assistant Professor of Aviation**

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

**Proposal Number:** #19-20-22

**School/Department/Program:** School of Business & Aviation / Department of Aviation

**Preparer/Contact Person:** Jason Vosburgh

**Telephone Extension:** X4283

**Date Originally Submitted:** January 31, 2020

**Revision (Indicate date and label it  
Revision #1, #2, etc.):** Revision #1 – March 26, 2020

**Implementation Date Requested:** Fall 2020

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

The purpose of this proposal is to revise the Aviation Program at Fairmont State University by incorporating changes in the aviation course pathways to more accurately reflect industry trends. We plan to change the degree program name to B.S. in Aviation and revise the course curriculum. The major adjustments include the following:

- (1) Develop a strong core of courses for all students pursuing a B. S. in Aviation
- (2) Develop two concentrations: (a) Aviation Management and (b) Professional Flight
- (3) Terminate the Aviation Maintenance Management option from the program
- (4) Terminate the Minor in Aviation Administration

- 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)

SFTY 1100 Safety and Environmental Components of Industry  
SFTY 1150 Management and Concepts in Accident Prevention  
PHYS 1101 Introduction to Physics I or PHYS 1105 Introduction to Physics II

Total hours deleted. 7

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

PHYS 1103 Introduction to Physics for Aviation  
\*Change of class name from PHYS 1199  
AVMA 3306 from (3) credits to (6) credits

Total hours added. 7

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.

Changing course title

From: AVMA 1100 from Aircraft Flight Theory

To: AVMA 1100 Introduction to Aviation.

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).

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.

The purpose of this proposal is to revise the Aviation Program at Fairmont State University by incorporating changes in the aviation course pathways. Course hours will remain unchanged.

This is being accomplished by:

1. Changing the name of the program from BS in Aviation Technology to BS in Aviation now that we are located in the School of Business & Aviation. The students in the BS in Aviation program will choose one of two concentrations: (1) Aviation Management; (2) Professional Flight.
2. We are eliminating the Aviation Maintenance Management concentration. The antecedent to this concentration was a 2+2 arrangement with Pierpont Community and Technical College. (Refer to appendices A)
3. The BS in Aviation program will require the following adjustments:
  - a. The creation of a year-round flight curriculum. [See below]
  - b. Renaming AVMA 1100 from Aircraft Flight Theory to Introduction to Aviation. There will be no changes in content or course learning outcomes.
  - c. Eliminating PHYS 1101 and adding PHYS 1104 – Introduction to Physics for Aviation to support FAA course content requirements.
  - d. Eliminating the SFTY 1100 and SFTY 1150 requirements as this information is redundant to what is taught in AVMA 3307 – Aviation Safety.
  - e. Change all flight labs from letter grades to Credit/No credit to more appropriately reflect the nature of FAA flight certification instruction.
  - f. Add AVMA 1100 Introduction to Aviation as a prerequisite for AVMA 1102 - Introduction to Air Traffic Control. AVMA 1100 as a prerequisite will provide students with required fundamental knowledge needed for AVMA 1102.

### 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.

The original curriculum for the aviation program and its subsequent degrees was based upon a manufacturing / maintenance outcome(s) by Pierpont Technical College. The Department of Aviation has been moved from the College of Science and Technology to the Fairmont State School of Business to align with current and new curriculum goals and outcomes. The curriculum is being moved toward a business model outcome / result based for managerial and professional flight students for career fields in:

- 1.) Aviation Management, airport and maintenance
- 2.) Professional Flight

This proposal seeks to focus the direction of the aviation administration curriculum to more completely equip students to meet the needs of the rapidly growing and evolving aviation industry.

“There’s a pilot shortage—so severe that Boeing estimates the airlines will need to hire 804,000 pilots over the next 20 years.” SHORTAGES ALL AROUND AVIATION’S CAREER DILEMMAS (December 1, 2019 T Horne)

Horne T. (December 1, 2019), SHORTAGES ALL AROUND AVIATION’S CAREER DILEMMAS. AOPA.

<https://www.aopa.org/news-and-media/all-news/2019/december/pilot/turbine-shortages-all-around>  
*Stop-and-go funding crises have exacerbated the FAA’s air traffic controller staffing crisis. The FAA’s Certified Professional Controller (CPC) workforce remains at a 30-year low and a significant percentage of the certified controller workforce remains eligible to retire (16%). To make matters worse, the FAA lowered its air traffic controller hiring target for this fiscal year from 1,431 to 907 as a result of the shutdown.*

*Moreover, the controller staffing crisis cannot be remedied simply by increased hiring by the FAA in the short-term. New hires who are admitted into the FAA Academy today will require two to five years of training before they become fully trained and capable of separating air traffic on their own. Of those who are admitted, in 2019, only 73% of students have successfully completed their Academy training. Historically, there has been additional attrition once Academy graduates begin on-the-job training at their*

facilities. NATCA is encouraged, however, as we are starting to see some positive results from the transfer program that allows CPCs from facilities with a lower staffing need to transfer to facilities with the greatest staffing need, while the FAA also continues to place Academy graduates at certain air traffic facilities in which initial certification is more likely.

(January 31, 2020) The Air Traffic Control Staffing Crisis. NATCA. <https://www.natca.org/issues/staffing/>

- 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?

After reviewing and comparing our current curriculum with other similar curricula it was found that changes were required to more directly address aviation administrative goals and requirements. Current program curriculum blends technology and administration with neither focus meeting a more administration centric focus. Adjustments to the aviation common core curriculum and additions of new concentrations, Aviation Management and Professional Flight, aligns the curriculum to the goals and outcomes of a business administration / flight program. This is an academic adjustment. There is no impact financially on the program. The addition of Introduction to Physics for Aviation (PHYS 1104) satisfies the FAA academic content requirements for Air Transport Rating 250 flight hour(s) reduction as specified in 14CFR part 141 of the FAA regulations.

- 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 |
|-----------------------------------|----------------------|-----------|
| College of Science and Technology | Dr. Steven Roof      |           |
| School of Business & Aviation     | Dr. Timothy R. Oxley |           |
|                                   |                      |           |
|                                   |                      |           |

- 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

Current Program

### AVIATION TECHNOLOGY

The Bachelor of Science in Aviation Technology is offered to students whose career objective is the management and operation of airside activities in the aviation industry. The program provides the graduate with technical competence in an aviation related career as well as the skills needed to assume supervisory responsibilities. There are several areas of specialization in this degree: Aviation Administration (which has a focus on management), Aviation Administration with a Flight option, and Aviation Maintenance Management. All Aviation Technology students are required to take the Aviation Common Core requirements listed below.

|   |                 |
|---|-----------------|
| Aviation Common Core .....                          | 27 SEM. HRS.    |
| AVMA3301 AVIATION HISTORY .....                     | 3               |
| AVMA3302 AVIATION LAW.....                          | 3               |
| AVMA3303 AIRLINE OPERATIONS .....                   | 3               |
| AVMA3304 AVIATION MAINTENANCE MANAGEMENT.....       | 3               |
| AVMA3305 GENERAL AVIATION OPERATIONS .....          | 3               |
| AVMA3307 AVIATION SAFETY.....                       | 3               |
| AVMA4402 FISCAL ASPECTS OF AVIATION MANAGEMENT..... | 3               |
| BSBA 2209 PRINCIPLES OF MANAGEMENT.....             | 3               |
| MGMT 3390 ORGANIZATIONAL BEHAVIOR .....             | 3               |
| AVIATION ADMINISTRATION.....                        | 120 SEM. HRS.   |
| 113   |                 |
| Aviation Common Core .....                          | 27 SEM.         |
| HRS.  |                 |
| Aviation Admin. Curriculum (see below) .....        | 39 SEM. HRS.    |
| General Studies Requirements .....                  | 39-41 SEM. HRS. |
| Free Electives .....                                | 13-15 SEM. HRS. |

This option prepares the student for employment in administrative areas with companies in and related to the aviation industry. Typical positions include airport manager, flight dispatcher, flight scheduler, crew coordinator, air cargo administration, aviation marketing, air traffic controller, and online management. A Flight Option is available within this degree; see details below.

|  |                     |
|--|---------------------|
| <b>Aviation Administration Curriculum .....</b>            | <b>33 SEM. HRS.</b> |
| Required Courses (39 hrs.)                                 |                     |
| AVMA1100 AIRCRAFT FLIGHT THEORY.....                       | 3                   |
| AVMA1102 INTRODUCTION TO AIR TRAFFIC CONTROL.....          | 3                   |
| AVMA2206 AVIATION SECURITY.....                            | 3                   |
| AVMA2210 AVIATION METEOROLOGY.....                         | 3                   |
| AVMA2211 AIRPORT MANAGEMENT.....                           | 3                   |
| AVMA2213 AIRPORT PLANNING AND DEVELOPMENT .....            | 3                   |
| BSBA 2201 PRINCIPLES OF ACCOUNTING .....                   | 3                   |
| BSBA 3310 BUSINESS AND ECONOMIC STATISTICS.....            | 3                   |
| BSBA 2204 PRINCIPLES OF MARKETING.....                     | 3                   |
| SFTY 1100 SAFETY & ENVIRONMENTAL COMP. OF INDUSTRY .....   | 3                   |
| SFTY 1150 SAFETY MGT. & CONCEPTS IN ACCIDENT PREV .....    | 3                   |
| Major Electives (Select 6 hrs. from the following courses) |                     |
| AVMA4401 AVIATION INDUSTRY RESEARCH .....                  | 3                   |
| AVMA4403 AVIATION PROJECT.....                             | 1-4                 |
| AVMA4411 AVIATION INDUSTRY INTERNSHIP.....                 | 3                   |
| AVMA4498 UNDERGRADUATE RESEARCH.....                       | 1-6                 |
| • General Studies Requirements .....                       | 39-41 SEM.          |
| HRS. Outcome 1 - Critical Analysis                         |                     |
| ENGL 1102 (Institutional Requirement).....                 | 3                   |
| Outcome 2 - Quantitative Literacy                          |                     |
| MATH 1510 or 1430 or 1530 (PR for PHYS 1101).....          | 3                   |
| Outcome 3 - Written Communication                          |                     |

|  |     |
|--|-----|
| ENGL 1101 (Institutional Requirement).....   | 3   |
| Outcome 4 - Teamwork   |     |
| MANF 2250 .....  | 3   |
| Outcome 5 - Information Literacy   |     |
| Met in Outcome 1 with ENGL 1102.....   | X   |
| Outcome 6 - Technology Literacy  |     |
| TECH 1100 or BISM 1200*.....   | 3   |
| Outcome 7 - Oral Communication   |     |
| COMM 2200 or 2201 or 2202*.....  | 3   |
| Outcome 8 - Citizenship  |     |
| POLI 1100* .....   | 3   |
| Outcome 9 - Ethics   |     |
| Met in Outcome 7 with COMM 2200 or 2201 or 2202.....   | 3   |
| Outcome 10- Health   |     |
| Any course listed in Outcome 10 .....  | 2-3 |
| Outcome 11- Interdisciplinary  |     |
| Met in Outcome 8 with POLI 1100.....   | X   |
| Outcome 12 - Arts  |     |
| Any course listed in Outcome 12 .....  | 3   |
| Outcome 13 - Humanities  |     |
| Any course listed in Outcome 13 .....  | 3   |
| Outcome 14 - Social Sciences   |     |
| BSBA 2200 or 2211 or PSYC 1101 or SOCY 1110* .....   | 3   |
| Outcome 15 - Natural Science   |     |
| PHYS 1101 or 1105 (Physics required to meet certain FAA guidelines<br>for ATP reduction in flight hours) ..... | 4-5 |
| Outcome 16 - Cultural Awareness  |     |
| Any course listed in Outcome 16 .....  | 3   |
| Additional General Studies hours .....   | 0   |

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

#### **AVIATION ADMINISTRATION /**

**PROFESSIONAL FLIGHT** ..... 120 SEM. HRS.

Aviation Common Core ..... 27 SEM. HRS.

Aviation Admin./ Flight Curriculum ..... 48 SEM. HRS.

General Studies Requirements ..... 39-42 SEM. HRS.

Free Electives 3-6 SEM. HRS.

Flight fees for students to obtain their private, commercial, or instrument license must be paid during the semester in which you enroll in the class.

#### **Aviation Administration / Flight**

Required Courses (48 hrs.)

AVMA1102 INTRO TO AIR TRAFFIC CONTROL.....3

AVMA2201 INSTRUMENT PILOT TECHNOLOGY.....3

AVMA2204 INSTRUMENT PILOT TECHNOLOGY LAB.....3

AVMA2206 AVIATION SECURITY.....3

AVMA2211 AIRPORT MANAGEMENT.....3

AVMA2213 AIRPORT PLANNING & DEVELOPMENT.....3

AVMA3300 COMMERCIAL PILOT TECHNOLOGY .....3

AVMA3306 COMMERCIAL PILOT TECHNOLOGY LAB.....3

BSBA 2201 PRINCIPLES OF ACCOUNTING .....3

BSBA 2204 PRINCIPLES OF MARKETING .....3

BSBA 3310 BUSINESS AND ECONOMICS STATISTICS .....3

SFTY 1100 SAFETY & ENVIRONMENTAL COMPONENTS

OF INDUSTRY .....3

SFTY 1150 SAFETY MANAGEMENT & CONCEPTS IN

ACCIDENT PREVENTION.....3

Major Electives (Select 9 credits from the following)



|   |   |
|---|---|
| AVMA1101 PRIVATE PILOT TECHNOLOGY.....                | 3 |
| AVMA1103 PRIVATE PILOT TECHNOLOGY LAB.....            | 3 |
| AVMA4401 AVIATION INDUSTRY RESEARCH AND ANALYSIS..... | 3 |
| AVMA4403 AVIATION PROJECT.....                        | 3 |
| AVMA4411 AVIATION INDUSTRY INTERNSHIP.....            | 3 |
| AVMA4498 UNDERGRADUATE RESEARCH.....                  | 3 |

**Aviation Maintenance Management**

\*Prerequisite for admission into program - earned A&P license. This option prepares the student for entry-level management positions in the maintenance field with airlines, aviation manufacturers, repair stations, and fixed base operators. To be admitted to the program, all students must have obtained their FAA Airframe and Powerplant License.

• General Studies Requirements .....39-42 SEM.

HRS.

|  |     |
|--|-----|
| Outcome 1 - Critical Analysis  |     |
| ENGL 1102 (Institutional Requirement).....   | 3   |
| Outcome 2 - Quantitative Literacy  |     |
| MATH 1510 or 1430 or 1530 (PR for PHYS 1101).....  | 3   |
| Outcome 3 - Written Communication  |     |
| ENGL 1101 (Institutional Requirement).....   | 3   |
| Outcome 4 – Teamwork   |     |
| MANF 2250*3  |     |
| Outcome 5 - Information Literacy   |     |
| Met in Outcome 1 with ENGL 1102.....   | X   |
| Outcome 6 - Technology Literacy  |     |
| TECH 1100* .....   | 3   |
| Outcome 7 - Oral Communication   |     |
| COMM 2200 or 2201 or 2202* .....   | 3   |
| Outcome 8 – Citizenship  |     |
| POLI 1100* .....   | 3   |
| Outcome 9 – Ethics   |     |
| Met in Outcome 7 with COMM 2200 or 2201 or 2202 .....  | X   |
| Outcome 10- Health   |     |
| Any course listed in Outcome 10.....   | 2-4 |
| Outcome 11- Interdisciplinary  |     |
| Met in Outcome 8 with POLI 1100.....   | X   |
| Outcome 12 – Arts  |     |
| Any course listed in Outcome 12.....   | 3   |
| Outcome 13 – Humanities  |     |
| Any course listed in Outcome 13.....   | 3   |
| Outcome 14 - Social Sciences   |     |
| BSBA 2200 or 2211 or PSYC 1101 or SOCY 1110* .....   | 3   |
| Outcome 15 - Natural Science   |     |
| PHYS 1101 or 1105 (Physics required to meet certain FAA guidelines for ATP reduction in flight hours)..... | 4-5 |
| Outcome 16 - Cultural Awareness  |     |
| Any course listed in Outcome 16 .....  | 3   |
| Additional General Studies hours .....   | 0   |

\* Any course(s) marked with an asterisk (\*) above are recommended

to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MINOR IN AVIATION ADMINISTRATION**

(No Flight) 21 SEM. HRS.

Required Courses (15 hrs.)

AVMA1100 AIRCRAFT FLIGHT THEORY

.....  
3

AVMA1102 INTRODUCTION TO AIR TRAFFIC CONTROL

.....

|   |   |  |
|---|---|--|
| 3 | AVMA2211 AIRPORT MANAGEMENT   |  |
| 3 | AVMA3303 AIRLINE OPERATIONS   |  |
| 3 | AVMA3305 GENERAL AVIATION OPERATIONS                                |  |
| 3 | Electives (6 hrs.)<br>(Select two courses from the following list.) |  |
|   | AVMA2213 AIRPORT PLANNING AND DEVELOPMENT                           |  |
| 3 | AVMA3301 AVIATION HISTORY   |  |
| 3 | AVMA3302 AVIATION LAW   |  |
| 3 | AVMA3307 AVIATION SAFETY  |  |
| 3 | AVMA4401 AVIATION INDUSTRY RESEARCH & ANALYSIS                      |  |

**MINOR IN AVIATION ADMINISTRATION**

(Flight Option) .....18 SEM. HRS.

Required Courses (12 hrs.)

|  |   |
|--|---|
| AVMA1101 PRIVATE PILOT TECHNOLOGY.....     | 3 |
| AVMA3301 AVIATION HISTORY .....            | 3 |
| AVMA3302 AVIATION LAW .....                | 3 |
| AVMA3305 GENERAL AVIATION OPERATIONS ..... | 3 |

Electives (6 hrs.)

(Select two courses from the following list.)

|   |   |
|---|---|
| AVMA2211 AIRPORT MANAGEMENT.....                | 3 |
| AVMA2213 AIRPORT PLANNING AND DEVELOPMENT ..... | 3 |
| AVMA2214 ADVANCED AIR TRAFFIC CONTROL.....      | 3 |
| AVMA3303 AIRLINE OPERATIONS .....               | 3 |
| AVMA3307 AVIATION SAFETY.....                   | 3 |

AVIATION MAINTENANCE  
MANAGEMENT120 SEM.HRS.

Aviation Common Core .....27 SEM. HRS.

Aviation Maintenance Management

Curriculum\* (see below) .....53 SEM. HRS.

General Studies Requirements.....39-42 SEM.

HRS. Free Electives 0-1 SEM. HRS.

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**Required General Studies Courses**

|  |   |
|--|---|
| Outcome 1 - Critical Analysis              |   |
| ENGL 1102 (Institutional Requirement)..... | 3 |
| Outcome 2 - Quantitative Literacy          |   |

|   |     |
|---|-----|
| MATH 1510 or 1430 or 1530 (PR for PHYS 1101).....   | 3   |
| Outcome 3 - Written Communication   |     |
| ENGL 1101 (Institutional Requirement).....  | 3   |
| Outcome 4 – Teamwork  |     |
| MANF 2250*3   |     |
| Outcome 5 - Information Literacy  |     |
| Met in Outcome 1 with ENGL 1102.....  | X   |
| Outcome 6 - Technology Literacy   |     |
| TECH 1100* .....  | 3   |
| Outcome 7 - Oral Communication  |     |
| COMM 2200 or 2201 or 2202* .....  | 3   |
| Outcome 8 – Citizenship   |     |
| POLI 1100* .....  | 3   |
| Outcome 9 – Ethics  |     |
| Met in Outcome 7 with COMM 2200 or 2201 or 2202 .....   | X   |
| Outcome 10- Health  |     |
| Any course listed in Outcome 10.....  | 2-4 |
| Outcome 11- Interdisciplinary   |     |
| Met in Outcome 8 with POLI 1100.....  | X   |
| Outcome 12 – Arts   |     |
| Any course listed in Outcome 12.....  | 3   |
| Outcome 13 – Humanities   |     |
| Any course listed in Outcome 13.....  | 3   |
| Outcome 14 - Social Sciences  |     |
| BSBA 2200 or 2211 or PSYC 1101 or SOCY 1110* .....  | 3   |
| Outcome 15 - Natural Science  |     |
| PHYS 1101 or 1105 (Physics required to meet certain FAA guidelines<br>for ATP reduction in flight hours)..... | 4-5 |
| Outcome 16 - Cultural Awareness   |     |
| Any course listed in Outcome 16 .....   | 3   |

**APPENDIX A**  
B.S. Degree in Aviation  
Proposed Program

| <b>B. S. in Aviation – Aviation Management Concentration</b>      |                      |  |                     |
|---|----------------------|--|---------------------|
| <b><i>Aviation Core – 64 credit hours</i></b>                     |                      |  |                     |
| <i>Course Prefix</i>  | <i>Course Number</i> | <i>Course Title</i>                        | <i>Credit Hours</i> |
| AVMA  | 1100                 | Introduction to Aviation                   | 3                   |
| AVMA  | 1102                 | Instruction to Air Traffic Control         | 3                   |
| AVMA  | 2206                 | Aviation Security                          | 3                   |
| AVMA  | 2210                 | Aviation Meteorology                       | 3                   |
| AVMA  | 2211                 | Airport Management                         | 3                   |
| AVMA  | 2213                 | Airport Planning and Development           | 3                   |
| 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                 | Aviation Safety                            | 3                   |
| AVMA  | 4402                 | Fiscal Aspects of Aviation Management      | 3                   |
| BISM  | 1200                 | Introduction to Computing                  | 3                   |
| BSBA  | 2204                 | Principles of Marketing                    | 3                   |
| BSBA  | 2209                 | Principles of Management                   | 3                   |
| BSBA  | 2220                 | Fundamentals of Accounting                 | 3                   |
| BSBA  | 3310                 | Business and Economics Statistics          | 3                   |
| MGMT  | 3390                 | Organizational Behavior                    | 3                   |
| MATH  | 1530                 | College Algebra (or higher)                | 3                   |
| PHYS  | 1104                 | Introduction to Physics for Aviation       | 4                   |
| <b><i>Aviation Management Concentration – 12 credit hours</i></b> |                      |  |                     |
| MGMT  | 3500                 | Project Management                         | 3                   |
| BSBA  | 4420                 | Business Ethics & Corporate Accountability | 3                   |
| AVMA  | 4401                 | Aviation Industry Research                 | 3                   |
| AVMA  | 4403                 | Aviation Project                           | 3                   |
| <b><i>Common Core – 28 credit hours</i></b>                       |                      |  |                     |
| Basic Skills, Critical Reasoning, and Personal Development        |                      |  | 28                  |
| <b><i>Free Electives – 16 credit hours</i></b>                    |                      |  | 16                  |
| Aviation Management   |                      | <b>Total</b>                               | <b>120</b>          |

| <b>B. S. in Aviation – Professional Flight Concentration</b>      |                      |   |                     |
|---|----------------------|---|---------------------|
| <b><i>Aviation Core – 64 credit hours</i></b>                     |                      |   |                     |
| <i>Course Prefix</i>  | <i>Course Number</i> | <i>Course Title</i>                     | <i>Credit Hours</i> |
| AVMA  | 1100                 | Introduction to Aviation                | 3                   |
| AVMA  | 1102                 | Instruction to Air Traffic Control      | 3                   |
| AVMA  | 2206                 | Aviation Security                       | 3                   |
| AVMA  | 2210                 | Aviation Meteorology                    | 3                   |
| AVMA  | 2211                 | Airport Management                      | 3                   |
| AVMA  | 2213                 | Airport Planning and Development        | 3                   |
| 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                 | Aviation Safety                         | 3                   |
| AVMA  | 4402                 | Fiscal Aspects of Aviation Management   | 3                   |
| BISM  | 1200                 | Introduction to Computing               | 3                   |
| BSBA  | 2204                 | Principles of Marketing                 | 3                   |
| BSBA  | 2209                 | Principles of Management                | 3                   |
| BSBA  | 2220                 | Fundamentals of Accounting (new course) | 3                   |
| BSBA  | 3310                 | Business and Economics Statistics       | 3                   |
| MGMT  | 3390                 | Organizational Behavior                 | 3                   |
| MATH  | 1530                 | College Algebra (or higher)             | 3                   |
| PHYS  | 1104                 | Introduction to Physics for Aviation    | 4                   |
| <b><i>Professional Flight Concentration – 21 credit hours</i></b> |                      |   |                     |
| AVMA  | 1101                 | Private Pilot Technology                | 3                   |
| AVMA  | 1103                 | Private Pilot Technology Lab            | 3                   |
| AVMA  | 2201                 | Instrument Pilot Technology             | 3                   |
| AVMA  | 2204                 | Instrument Pilot Technology Lab         | 3                   |
| AVMA  | 3300                 | Commercial Pilot Technology             | 3                   |
| AVMA  | 3306                 | Commercial Pilot Technology Lab         | 6                   |
| <b><i>Common Core – 28 credit hours</i></b>                       |                      |   |                     |
| Basic Skills, Critical Reasoning, and Personal Development        |                      |   | 28                  |
| <b><i>Free Electives – 7 credit hours</i></b>                     |                      |   |                     |
| Professional Flight   |                      |   | <b>Total</b>        |
|   |                      |   | <b>120</b>          |

| <b>Required Common Core Courses</b>  |                  |
|--|------------------|
| <b>Basic Skills (13 – 15 hours)</b>  | <b>12</b>        |
| Basic Skills #1 First Year Seminar   | 3                |
| <i>BSBA 1100 Recommended</i>   |                  |
| Basic Skills #2 Written Communication  | 3                |
| <i>ENGL 1101 Recommended</i>   |                  |
| Basic Skills #3 Written Communication  | 3                |
| <i>ENGL 1102 Recommended</i>   |                  |
| Basic Skills #4 Oral Communication   | 3                |
| <i>COMM 2202 Recommended</i>   |                  |
| Basic Skills #5 Mathematics  | In Aviation Core |
| MATH 1530/1430 or higher<br>Recommended (Prerequisite to BSBA<br>3310 required course) |                  |
| <b>Critical Reasoning in the Disciplines (12 – 14 hours)</b>                           | <b>13</b>        |
| Critical Reasoning in the Disciplines #6 ~ Humanities                                  | 3                |
| <i>Student Choice from Approved Options</i>  |                  |
| Critical Reasoning in the Disciplines #7 ~ Fine Arts                                   | 3                |
| <i>Student Choice from Approved Options</i>  |                  |
| Critical Reasoning in the Disciplines #8 ~ Natural Science                             | 4                |
| <i>Student Choice from Approved Options</i>  |                  |
| Critical Reasoning in the Disciplines #9 ~ Social Science                              | 3                |
| <i>BSBA 2200 Recommended</i>   |                  |
| <b>Personal Development (5 – 6 hours)</b>  | <b>3</b>         |
| Personal Development #10 ~ Citizenship   | 3                |
| <i>Student Choice from Approved Options</i>  |                  |
| Personal Development #11 ~ Technology  | In Aviation Core |
| <i>BISM 1200 Recommended</i>   |                  |
| <b>TOTAL GENERAL STUDIES HOURS</b>   | <b>28</b>        |