To: UGCC members

From: Victoria Dunbar, College of Aeronautics

Re: Adding a New Course to the Curriculum – AHF 1101
     Changing Graduation Requirements for a Minor in UAS

Date: November 14, 2014

The College of Aeronautics is requesting Undergraduate Curriculum Committee approval for adding a new course AHF 1101, and changing restrictions in the Unmanned Aerial Systems (UAS) minor.

1. AHF 1101 Aviation Psychology introduces the field of aviation psychology. It will present and analyze aviation psychology issues in general application, and emphasizes the aviation industry and aviation systems. It includes personnel selection, training, stress, performance, culture and leadership, and more. This course is being created in advance of the soon-to-be proposed undergraduate degree in Aviation Human Factors and Safety.

2. The course AVS 4203 UAS Application and the minor in Unmanned Aerial Systems (UAS) were approved Spring 2013. At the time of the Minor submission we incorrectly left the wording AVS 4XXX, when it should have been AVS 4203 UAS Application. This does not change the minor at all, it simply clarifies the requirements.
**Florida Institute of Technology**

**ADDING A NEW COURSE TO THE CURRICULUM**

This course is available for student registration only after the approval process has been completed.

**SUBJECT**  A  H  F  
(e.g., CSE)  

**COURSE NO.**  1101  
(e.g., 1301)  

**CREDIT HOURS**  3  

**TERM TO BE ADDED TO THE FILE**  Fall 2016  
(e.g., Fall 2010)  

**CLASS HOURS**  3/week  
**LECTURE HOURS**  3/week  
**LAB HOURS**  
**CONTACT HOURS (CEU ONLY)**

**DEPARTMENT**  Aeronautics  
(e.g., Computer Sciences)  

**SCHEDULE TYPE**  Lecture (A)  
(e.g., Lecture, Lab or Special Topics/Project)  

☐ COLLEGE OF AERONAUTICS - 23  
☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS - 25  
☐ COLLEGE OF SCIENCE - 26  
☐ EXTENDED STUDIES / NATHAN M. BISK COLLEGE OF BUSINESS - 90  

**COMPUTER TITLE**  Restricted to 25 characters, including spaces  

**AVIATION PSYCHOLOGY**  

**Dual-Prefix** ☐  
**Bi-Level** ☐  
**Full-Load** ☐

**CATALOG TITLE**  Introduction to Aviation Psychology  

**CATALOG DESCRIPTION**  Restricted to 350 characters, including spaces

Introduces the field of aviation psychology. Presents and analyzes aviation psychology issues in general applications. Emphasizes the aviation industry and aircraft systems. Includes personnel selection, training, stress, performance, culture and leadership, among other topics.

This description has been approved by the catalog office  

[Signature]  

**GRADES TO BE ISSUED**  

☐ A, B, C, D, F  
☐ A, B, C, D, F, CEU/Audit  
☐ CEU  
☐ S, U  
☐ P, F  
☐ Other

**ADDITIONAL RESTRICTION**  
(e.g., Major, Class Level, Department Head Approval)

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

**SUBJECT**  Aeronautics (e.g., CSE)  

**COURSE NO.**  1101  

**TERM TO INACTIVATE**

☐ Yes  ☐ No  
Will this course be used to measure program-level student learning outcomes? If yes, review and signature required.**

☐ Yes  ☐ No  
Will this course be used to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

**APPROVALS:** On completion of description and course number verification, affix appropriate signatures as indicated, and submit completed form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval.

[Signatures]

[Date]

**REGISTRAR'S USE ONLY**

SCACRSSE  SCACSETL  SCACREQ  SCABASE  
SCACRS  Operator Init.  Date

**DISTRIBUTION**

Original – Registrar  
Copy – Academic Unit

Florida Institute of Technology  •  Office of the Registrar  

150 West University Boulevard, Melbourne, FL 32901-6975  •  (321) 674-8114  •  Fax (321) 674-7827  

R08-06-214
FLORIDA INSTITUTE OF TECHNOLOGY
COLLEGE OF AERONAUTICS
AHF 1XXX—Introduction to Aviation Psychology (3 credit hours)

Course Outline

Instructor: Dr. xxxxxxxxx
Phone: xxxxxxxx

Time/Room: xxxxxxxxxx

Office Hours: xxxxxxxxxx


Course Description: This course introduces the field of aviation psychology. This course presents and analyzes aviation psychology issues in general applications; however the emphasis will be on the aviation industry and aircraft systems. Some topics to be covered include, but are not limited to, personnel selection, training, stress, performance, culture, leadership, etc.

Course Learning Objectives: At the completion of this course, students will be able to:

- Define aviation psychology and explain its role in the design of systems
- Understand key concepts used in aviation psychology
- Apply aviation psychology concepts to everyday challenges
- Apply aviation psychology principles to improving aircraft design, safety, and pilot performance
- Work effectively in teams

Course Requirements:
(1) One term paper (using APA format) on any topic of your choice that has been approved in advance by your instructor in the area of aviation psychology.
(2) One oral presentation associated with your term paper.
(3) Mid-term Exam
(4) Final Exam
Grading Policy:
(1) Term Paper 25%
(2) Oral Presentation 15%
(3) Mid-Term Exam 30%
(4) Final Exam 30%

Instructional Procedures: The instructor will conduct a selected number of lectures/discussion. All students will be held responsible for information contained in the assigned chapters, as well as for information contained in classroom activities—lecture, discussion, demonstrations, etc.

Students will be required to write a term paper on a topic related to a current aviation psychology issue of their choice applied to a specific system (e.g. aviation, transportation, medicine, process control, etc.). Students will be required to make a formal oral presentation of approximately 10 minutes duration related to the aviation psychology issues discussed in their term paper.

IT IS IMPORTANT THAT YOU READ AND STUDY THE ASSIGNED MATERIAL BEFORE COMING TO CLASS!!!

A mid-term and final exam will be conducted based on the assigned readings from the text and lectures presented by the instructor, students and guest speakers (if any).

- I will use Angel to post all presentations and many of the handouts. You need to check this regularly for special announcements.
- Missed exams cannot be made up without an official excused absence.
- I'm here to help you understand this material. Call me, email me, or set up an appointment to see me if you have any questions or concerns.

Cheating/Plagiarism and Academic Dishonesty

Academic dishonesty is taken very seriously by the university and is not condoned by any member of the university. Examples of academic dishonesty include (but are not limited to): academic cheating, plagiarism, cheating by using computers, and breaches of professional integrity. Such incidents shall be treated in accordance with university policy as outlined in the Student Handbook.

Disability Issues

I take disability issues very seriously. Please read the FIT official handbook for more details on disability issues. If you choose to disclose to me, I will keep it confidential and do whatever I can to accommodate your needs according to the official policies of FIT.
## Class Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Aviation Psychology</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>2</td>
<td>Research Methods</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>3</td>
<td>Statistics</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>4</td>
<td>Human Factors</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>5</td>
<td>Design of Aviation Systems</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>6</td>
<td>Personnel Selection</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>7</td>
<td>Training</td>
<td>Chapter 5</td>
</tr>
<tr>
<td></td>
<td><strong>Mid-term Exam</strong> [Chapters 1-5]</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Stress</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>9</td>
<td>Human Reactions</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>10</td>
<td>Human Performance</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>11</td>
<td>Culture</td>
<td>Chapter 7</td>
</tr>
<tr>
<td>12</td>
<td>Organizations</td>
<td>Chapter 7</td>
</tr>
<tr>
<td>13</td>
<td>Leadership</td>
<td>Chapter 7</td>
</tr>
<tr>
<td>14</td>
<td>Aviation Safety</td>
<td>Chapter 8</td>
</tr>
<tr>
<td>15</td>
<td>Oral Presentations</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Term Paper Due</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Final Exam [Chapters 6-8 plus handouts]</strong></td>
<td></td>
</tr>
</tbody>
</table>
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

**College:** Aeronautics  
**Department:** ____________  
**Degree Level:** Minor Undergraduate  
**Program Title:** Minor in Unmanned Aerial Systems  
**To be Initiated With Catalog Year:** 2014  
**Change Requested For:** Minor Program 6233  
**Date Change to be Initiated Must be for a Future Academic Year.**

**Description of Requested Changes:** Attach a more detailed description and any supporting documentation.

Please change minor requirement from "AVS 4xxx VAS Applications" to "AVS 4203 VAS Applications". When the minor program was submitted for approval, the course designation for the "VAS Applications" course had not yet been approved/determined. The intention of the original minor proposal was to substitute AVS 4xxx with the approved designation, once it was known. This does not change the content or intent of the minor in any way. See attached.

**Approvals:** On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the OOO of the Registrar.

**Originator:**  
**Date:** 11/14/14  
**Department Head/Major Program Chair:**  
**Date:** 11/15/14  
**Dean or Associate Dean:**  
**Date:** 11/13/14

**Registrar's Use Only**

- University Catalog  
  - "Yes"  
  - "No"  
  - Update completed  
  - Date  
  - Initials
- CAPP/Degree Evaluation  
  - "Yes"  
  - "No"  
  - Update completed  
  - Date  
  - Initials
- Catalog/Policy Mgmt. System  
  - "Yes"  
  - "No"  
  - Update completed  
  - Date  
  - Initials

**Distribution:**  
Original – Registrar  
Copy – Academic Unit
What it currently says:

**Minor Curriculum (18 Credits Total)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVT 1001 Aeronautics 1 or AVM 1000</td>
<td>3 (existing)</td>
</tr>
<tr>
<td>AVT 2001 Aeronautics 3 or AVT 2201 NAS</td>
<td>3 (existing)</td>
</tr>
<tr>
<td>AVS 4202 Unmanned Aerial Systems</td>
<td>3 (existing)</td>
</tr>
<tr>
<td>AVS 4xxx UAS Applications</td>
<td>3 (new course)</td>
</tr>
</tbody>
</table>

The remaining credits (6) may be fulfilled through approved, restricted (or technical) electives.

What it should say:

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVM 1000 Introduction to Aviation or AVT 1001 Aeronautics 1</td>
</tr>
<tr>
<td>AVT 2201 National Airspace System or AVT 2001 Aeronautics 3</td>
</tr>
<tr>
<td>AVS 4202 Unmanned Aerial Systems</td>
</tr>
<tr>
<td>AVS 4203 UAS Applications</td>
</tr>
</tbody>
</table>

In addition to the above core requirements, students can choose an additional 6 credits from a variety of restricted electives, subject to approval by the College of Aeronautics.