

Embry-Riddle Aeronautical University

**Fall 2018**

Undergraduate and Graduate

Registration guidelines and  
Important Information



**DAYTONA BEACH CAMPUS CALENDAR**  
**Undergraduate and Graduate**  
**Fall 2018**

**Aug. 17** Full payment or enrollment in a payment plan must be received by August 17 in order to retain your fall 2018 schedule (Friday)  
**Aug. 18-Aug. 31** New registration requires full payment or enrollment in a payment plan *immediately* upon registration to retain your fall 2018 schedule.

**PLEASE**  
**NOTE:**

All payment plans require a down payment and electronic signature.

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**Aug. 22-26** Orientation (Wednesday–Sunday)  
**Aug. 23-24** New Student registration (Thursday & Friday)  
**Aug. 27** **Classes begin** Academics and AMS (Monday)  
**Aug. 27-31** Add period and also first day of late registration (Monday – Friday) 8:00am – 5:00pm – Student Center Annex  
**Aug. 31** **Last day of late registration** (Friday)  
**Aug. 31** Last day to withdraw from all classes and receive **100%** refund (Friday)  
**Sept. 3** Holiday – Labor Day (Monday)  
**\*Sept. 10** Last day to withdraw from all classes and receive **80%** refund (Monday)  
**Sept. 14** Last day to drop courses with no notation of course enrollment on academic transcripts. Academic Courses Only (Friday)  
**\*Sept. 17** Last day to withdraw from all classes and receive **60%** refund (Monday)  
**Sept. 19** **Early Alert grades** distributed to all Students (Wednesday)  
**Sept. 21** **Last day to make up incomplete (I) grades** for undergraduate and graduate courses for Summer A, B & C 2018 (Friday)

**\*Sept. 24** Last day to withdraw from all classes and receive **40%** refund (Monday)  
**\*Oct. 1** Last day to withdraw from all classes and receive **20%** refund (Monday)  
**Oct. 9** Deadline for Academic Standards/Readmissions, Spring 2019 (Tuesday)  
**Oct. TBD** Industry/Career Expo-**No classes** (Thursday)  
**Oct. 18-19** **Fall Break (Thursday-Friday)**  
**Oct. 23** Last day to submit application for December graduation (Tuesday)  
**Oct. 25** **Mid-Term progress reports distributed** to ALL students (Wednesday)  
**Nov. 12** Holiday –Veteran’s Day (Monday)  
**Nov. 16** Last day to **officially drop classes and receive a grade of “W”**. Also last day to **change course registration from credit to audit**. Students who change to audit must continue to attend classes. (Friday)  
**Nov. 16** Thesis/Dissertation defense deadline (Friday)  
**Nov. 21-23** Holiday–Thanksgiving (Wednesday–Friday)  
**Dec. 6** Last day of classes Academics and AMS (Thursday)  
**Dec. 6** Thesis/Dissertation submission to library deadline (Thursday)  
**Dec. 7** Study Day (Friday)  
**Dec. 8, 10 - 12** Final Examinations (Saturday, Monday - Wednesday)  
**Dec. 17** Commencement (Monday)

**\*The Fall/Spring refund schedule applies only to a total withdrawal from the University/Term. There will be no tuition refund for reduction of hours after the last day of add/drop. The effective date of withdrawal, governs the refund computations.**

**Students who leave the University for any reason must process a withdrawal form through the Registrar’s. If a withdrawal is necessary after the last day to drop courses, as listed in the Campus Calendar, grades of “WF” will be assigned for all courses in which the student is enrolled. WF grades are calculated into the grade point average (GPA). The Dean of Students or an Academic Dean may grant exceptions for medical reasons or other extenuating circumstances.**

### **Fall/Spring 2018/19 Tuition Rates**

Per Credit Hour	\$1433
FLA Resident Credit Hour	\$1361
Block Rate (12-16 credits)	\$17,196
FLA Resident Block Rate (12-16 credits)	\$16,332
Graduate per Credit Hour	\$1433
AMS per credit hour	\$808
\$1230	
PhD Aviation/Aviation Business per credit hour	\$1163
PhD per credit hour	\$1433
(Engineering, Physics, Aerospace Eng., Electrical Engineering and Computer Science)	
PhD BA Residence Fee	\$2150
Aviation Residency Fee	\$1200
Dissertation per credit hour	\$50

### **Mandatory Fees (per term)**

SGA Fee	\$150
Health Service Fee	\$160
Facilities Fee	\$150
Orientation Fee	\$150
Technology Fee	\$251
International Student Fee	\$103
ERLI per course	

### **Course/Lab Fees (per term)**

ATC Sim Fee	\$320
HAL Fee	\$302
UAS Sim Fee	\$433
FA-420	\$5360
AE-415	\$500
Aerospace Phys Fee	\$25
Engineering Fee	\$205

### **Mandatory Health Insurance**

Fall- Annual charge	TBD
Spring	TBD
Summer A/C	TBD
Summer B	TBD

## Advisement and Registration Dates for Continuing Students for Fall 2018

<b>Feb 21 – March 2</b>	Advisement	Advisement is required for all students in the College of Arts and Sciences in addition to all students in the ECSSE degree programs. Advisement is not required of juniors and seniors in all remaining degree programs. However, freshmen and sophomores must see their advisor prior to registration. Students on academic warning or probation must also meet with their advisor and are required to register at the Office of the Registrar. See the Registration Rules & Regulations page.
<b>March 5</b>	Registration for <i>all graduate students</i> and <i>undergraduate students</i> in <i>senior</i> standing	All graduate students and seniors (with 88 earned credit hours) are eligible to register during this time. Students may register on the web or at the Office of the Registrar.
<b>March 6</b>	Registration for undergraduate students in <i>junior</i> standing	Undergraduate students, who have earned at least a total of 58 credit hours, are eligible to register during this time. Students may register on the web or at the Office of the Registrar.
<b>March 7</b>	Registration for undergraduate students in <i>sophomore</i> standing	Undergraduate students, who have earned at least a total of 28 credit hours, are eligible to register during this time. Students may register on the web or at the Office of the Registrar. <b>Web registration is open to sophomores whose advisor approves their registration and releases the advisor hold.</b>
<b>March 8</b>	Registration for undergraduate students in <i>freshman</i> standing	Students who have not yet earned 28 credit hours are eligible to register during this time. Students may register on the web or at the Office of the Registrar. <b>Web registration is open to freshmen whose advisor approves their registration and releases the advisor hold.</b>
<b>March 9</b>	Registration continues for all students.	

# Registration Rules and Regulations

## Undergraduate Registration Procedures

Students in good academic standing (not on warning or probation) and whose records are free of restrictions may use web-based registration.

Eligible Juniors and Seniors are not required to see their academic advisor. **It is strongly recommended that you keep your advisor informed of the courses you are taking.**

Eligible Freshmen and Sophomores must meet with their academic advisor and obtain approval of their course selection. After approval, the advisor will release a registration hold, giving the Freshman student access to web-based registration.

**The advisement period for Fall 2018 is Feb. 21–March 2. Advisement is required for ALL students in the following degree programs: Human Factors Psychology, Interdisciplinary Studies, Communications, Engineering Physics, & Space Physics. Freshmen and Sophomores and all students not eligible to us web-based registration should schedule an appointment for advisement during these dates.**

**Entrance into a closed class:** The department chair or program coordinator for the course in question must approve entrance into any closed class. A signed registration or add/drop form must be presented to the Office of the Registrar for entrance into a closed class.

**Graduate level course for undergraduate credit:** Students taking a graduate level course to use for undergraduate credit must have the approval of the appropriate graduate coordinator along with that of their academic advisor. A Petition to enroll in a 500-level course for undergraduate credit (Not for Accelerated Programs) is also required and can be found in AP-14. A registration or add/drop form must be presented to the Office of the Registrar for entrance into a graduate course for undergraduate credit.

## Add / Drop

Students may use web-based registration to make changes to their schedule (add/drop) through the first five days of class. Students on warning or probation and who cannot use web-based registration are required to see their academic advisor for signatures and present an add/drop form to the Office of the Registrar. An advisor does not need to be consulted to change sections of the same course

or to add a required lab. **Signatures from both the instructor and advisor are required on ALL drops after the 100% refund period.**

**All course offerings, including meeting days, times and instructor, in this schedule book are the responsibility of the Department Chair. This is a planning document. As changes are ongoing, there is no guarantee that the instructors listed will actually be instructing the sections as shown.**

## Graduate Registration Procedures

Continuing graduate students, whose academic record has no registration restrictions, are allowed to use web-based registration during the published dates.

Graduate students required to take an undergraduate class must see their graduate program coordinator and must present a signed registration or add/drop form to the Office of the Registrar.

### **Course Equivalency Examinations**

Students who believe they possess sufficient knowledge and who have not previously failed that particular course may apply to take a Course Equivalency Examination for a limited number of courses. Course Equivalency Examinations must be completed prior to the time the student reaches the last 30 credits for a bachelor degree. To apply to take an examination, students must contact the department chair responsible for the course.

A nonrefundable fee of \$500.00 is charged for administering each equivalency examination. Students may attempt each examination only once. Those failing an examination must register for the course in order to receive academic credit. Students who pass the examination will receive the full credit value for the course and the student's academic transcript will be noted appropriately.

Equivalency Examinations may not be administered for lab courses.

### **Tuition Charges:**

**Fall and Spring semesters** - Block tuition is 12 through 16 credit hours. Students who have completed more than 27 credit hours and have a cumulative grade point average (CGPA) of 3.000 or higher will be allowed to register (with advisor written approval) for up to 18 credit hours with no increase in tuition for hours over the block. Registration for credit hours over 18 hours will be charged at the per credit hour rate.

**Fall and Spring eligibility**- determined by completed credit hours and a CGPA at the time of registration.

**Summer terms** - there is no block tuition.  
Courses are charged per credit hour.

### **Course load status**

**Fall and Spring semesters** - 12 credit hours constitute the minimum load for full-time student status.

**Summer terms** - 6 credit hours for each summer term is considered full-time student status.

**Registration for additional hours above the block** must be completed at the Office of the Registrar and requires the following signatures:

- students with a CGPA of 3.000 or higher, written approval must be granted by the student's Academic Advisor
- students with a CGPA of less than 3.000, written approval must be granted by the student's Advisor and Department Chair/designee
- 19 Credit Hours and above, written approval must be granted by the student's Advisor and Dean of their College

# Attention Prospective Graduates!



## Fall 2018 Ceremony Participation

All students wishing to participate in the Fall 2018 ceremony must apply for graduation by Tuesday, October 23<sup>th</sup>.

All students must be **registered for** and **complete** all remaining degree requirements in the Fall 2018 term to be eligible to participate in the commencement ceremony on December 17<sup>th</sup>.

The graduation application fee is **\$75** and includes the first diploma. Additional diplomas are charged at **\$50** each.

## Important Dates

### **October 23<sup>th</sup> (Tuesday): Application Deadline**

In order to be evaluated and considered for degree completion and participation in the Fall 2018 ceremony, a graduation application and all degree completion paperwork (advance standing forms, course substitutions, changes of AOC/minor, etc.) must be received in the Office of the Registrar by this date.

### **November 16<sup>th</sup> (Friday): Thesis Defense Deadline**

### **December 6<sup>th</sup> (Thursday): Deadline to have Thesis submitted to the Library**

**December 17<sup>th</sup> (Monday): Commencement Ceremony/Degree conferred.** See the Daytona Beach [Graduation](#) page for more details.

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You are encouraged to apply for graduation one semester prior to your expected graduation term. Your application will be reviewed once you are pre-registered for your final term. Applying one term ahead allows the opportunity to make any necessary adjustments to your schedule.

**FINAL EXAMINATION SCHEDULE  
FALL SEMESTER 2018  
DECEMBER 8, 10-12**

**COMMON EXAMINATIONS:**

COM 122, COM 219, COM 020, COM 122I	Saturday, December 8	1015-1215
HU 140, HU 141, HU 142, HU 145, HU 146 COM 221	Saturday, December 8	0800-1000
EE 335, EGR 115, MA 006, MA 004, ES 405	Saturday, December 8	1700-1900
PS 103, PS 104, PS 139, PS 150, PS 160	Tuesday, December 11	1015-1215
MA 112, MA 143, MA 242, MA 412	Saturday, December 8	1445-1645
CS 225, MA 111, MA 241, PS 250	Monday, December 10	1015-1215

**CLASSES MEETING: MWF, MTWTH, MTWF, MWTF, M, W**

0800-0850	Monday, December 10	0800-1000
0900-0950	Tuesday, December 11	0800-1000
1000-1050	Monday, December 10	1915-2115
1100-1150	Monday, December 10	1230-1430
1200-1250	Wednesday, December 12	1915-2115
1300-1350	Saturday, December 8	1915-2115
1400-1450	Saturday, December 8	1230-1430
1500-1550	Tuesday, December 11	1915-2115
1600-1650	Tuesday, December 11	1230-1430
1700-2150	Wednesday, December 12	1445-1645

**CLASSES MEETING: TTH, T, TH**

0815-0930	Monday, December 10	1445-1645
0945-1100	Wednesday, December 12	1015-1215
1115-1230	Monday, December 10	1700-1900
1245-1400	Tuesday, December 11	1445-1645
1415-1530	Wednesday, December 12	0800-1000
1545-1700	Tuesday, December 11	1700-1900
1715-1830	Wednesday, December 12	1230-1430
1830/1845-2015	Wednesday, December 12	1700-1900

- FINAL EXAMS ARE HELD IN THEIR REGULARLY SCHEDULED CLASSROOMS. ANY CHANGES TO THIS WILL BE ANNOUNCED BY THE COURSE INSTRUCTOR.

THOSE STUDENTS WHO HAVE EXAM CONFLICTS OR WHO ARE SCHEDULED FOR THREE (3) OR MORE EXAMS ON ONE DAY MUST MAKE SPECIAL ARRANGEMENTS WITH THEIR INSTRUCTOR ON AN INDIVIDUAL BASIS IF THEY WISH TO RESCHEDULE ONE OF THESE EXAMS. IF STUDENTS ARE UNABLE TO ACCOMPLISH THIS ON THEIR OWN, THEY SHOULD CONTACT THE DEPARTMENT COORDINATOR.

\*\*FINAL EXAM DATES IN GRADUATE CLASSES OFTEN DIFFER FROM THIS SCHEDULE. CONTACT YOUR INSTRUCTOR FOR DETAILS.





## OFFICE OF GLOBAL ENGAGEMENT

### Semester or Yearlong Program

Is five weeks not long enough for you, or do you just want to study in another country? If this is the case, a semester (fall, spring, Summer A or B) or yearlong program is right for you. In these programs, you will truly **LIVE** the culture. You get to choose one of our partner universities that suits, as well as what courses you want to take. If you're worried about speaking another language, don't worry, because many of our partners teach in English. We haven't met any of our students who didn't say it was the best experience of their lives.

- Take Courses that Apply Toward Your Degree
- Just Pay ERAU Tuition: Includes All Financial Aid
- Learn in English, or Fully Immerse in The Language
- All Approved Courses Transfer as Pass/Fail
- Visit Us to Find Programs that Meet Your Goals
- Live Another Culture and Make Lifelong Friendships

### Engineering Abroad

The Office of Global Engagement has worked hard to create unique opportunities for engineering students who want to study or research abroad. Through an incredible partnership with foreign universities called **GE3** (Global Engineering Education Exchange). This program offers a world of opportunities for engineering students to continue their studies, while living in another country. Many of the partner universities offer their courses in English or in their native language if the student prefers.

## Winter, Spring and Summer Programs

Embry-Riddle professors offer and host a variety of three to six week summer programs domestically and across the globe at half-price tuition. This reduced tuition serves as an additional incentive for students to explore other countries, locations, cultures, languages, foods and experiences while advancing their education and enhancing future career competitiveness. Living expenses in many of our destinations can be substantially lower than in the United States, allowing students to save even more.

Winter and Spring Abroad or Domestic Away Programs, similar in some ways to the summer programs (these programs are hosted by ERAU professors), offer unique experiences to students who choose to travel with ERAU during the spring break period. In the past, these programs have enabled students to research unique topics in different countries as well as fulfilling academic requirements. In previous years the Office of Global Engagement has partnered with the **IGNITE** office on campus in order to facilitate a completely rare learning experience with different opportunities from summer programs.

For information on financial aid for our Global Engagement Programs, please contact the Financial Aid office.

### Travelers Executive Group

**Wait!** Want to get a taste of other cultures before you even leave the country? The Office of Global Engagement's Travelers Executive Group is filled with students from all over the world. We hold cultural events in a social atmosphere that typically have something to do with food. For more information, check out the Eagles Abroad Facebook page. We post about students who are currently abroad, upcoming opportunities, as well as travel tips.

**Stop by the Office of Global Engagement to start planning your adventure abroad!** Bld. 273, Suite 200, "The Hub"

386-226-6215 E-mail: [goglobal@erau.edu](mailto:goglobal@erau.edu)



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# Cooperative Education/Internship Program

- **BEFORE LEAVING CAMPUS...a mandatory advisement session with Career Services Program Manager is required** for all students who intend to participate in a co-op or internship and earn academic credit.
- **BEFORE LEAVING CAMPUS...meet with Career Services Program Manager to verify eligibility** and sign the Co-op/Intern **Student Agreement**
- Failure to do so will mean student is ineligible to register for co-op/internship work experience.
- International students are **required** to verify eligibility with “Immigration Services” at ERAU before meeting with Career Services

## TOP 10 REASONS WHY YOU WILL WANT TO and WHY WE ENCOURAGE YOU TO BE REGISTERED FOR YOUR CO-OP/INTERNSHIP

1. Accountability
2. Official Experience
3. Transcript notation
4. Earn credit
5. **Possible** course substitution for technical **elective**
6. Verification of work term
7. Financial Aid benefits
8. Defer Financial Aid repayments
9. Verification of full-time enrollment
10. Interaction with Career Services

## CREDITS EARNED

In order to participate in an official University Co-op/Internship and earn academic credit, students must complete registration/enrollment with Career Services. One upper-level open elective credit hour will be awarded to undergraduate students for every 100 clock hours worked, up to a maximum of 6 credits for 15 weeks of full-time employment (**600 hours**) for the spring or fall semester and 13 weeks (**520 hours**) for the summer semester for the successful completion of a Cooperative Education/Internship work term. Graduate students earn one elective credit hour for every 200 hours of work and are awarded a maximum of 3 credits. Co-op credits **may be** applied to required elective credits in student’s major with approval of the department. **COE may convert open elective credit from an internship to required technical elective at the time graduation application is submitted.** Students are charged one (1) credit hour of tuition.

## FA-420 Airline Flight Crew Techniques and Procedures

### This course is not available through Web Registration

The ground schools are either 0645-0900 or 1145-1400 M-F and Flight Simulation Training Device (FSTD) training sessions are 0600-1130 or 1130-1700, M/W/F or T/TH. To register for any of these sessions you will be required to see Tom Peterson, Canadair Regional Jet Program Manager (Room 215A, 226-7975) located in the Advanced Flight Simulation Center building PRIOR TO YOUR PRE-REGISTRATION. FA420 Registration and Advisement begins on the first day of academic advisement for students of all class standing. Slots are available on a first come first served basis. **If after you register you want to change or drop the course you will be required to get a signature from the Program Manager and the form must be processed before the start of Ground School.**

The ground training sections will be held in the Advanced Flight Simulation Center in Room 216. You will register for the ground training, which is held Mon. through Fri. for the first three weeks, two and a quarter hour per day, and register for a FSTD section which follows every other day for 5.5 hours per day.

***\*NOTE: IT IS IMPERATIVE THAT YOU SIGN UP FOR GROUND AND FSTD SECTIONS FIRST AND SCHEDULE YOUR OTHER CLASSES AROUND THESE TIMES. YOU WILL ALSO NEED A SIGNATURE IF YOU DROP THE COURSE. ALL ADD/DROP PAPERWORK MUST BE PROCESSED A WEEK BEFORE THAT GROUND SCHOOL SECTION STARTS OR YOU WILL NOT RECEIVE A REFUND. AT TIME OF REGISTRATION YOU WILL NEED TO SHOW YOUR COMMERCIAL MULTI-ENGINE PILOT CERTIFICATE WITH AN INSTRUMENT RATING. Other prerequisites include: AS 387 and AS 435. These must be completed before you start FA-420. AS 420 is a co-requisite and must be completed before or during enrollment in FA-420. Additionally, students wishing to receive a High Altitude Endorsement at the end of FA-420 must have previously completed and passed the following; AS309, AS321, AS357, and WX301 here at Embry Riddle before starting FA-420. Transfer credit cannot be accepted.***

## REQUIREMENTS FOR FA-420 EXPLAINED

Congress passed Public Law 107-71 on November 19, 2001, in response to the events of September 11, 2001. Any person who seeks training in a device that may qualify the person in an aircraft having a maximum certificated takeoff weight of 12,500 pounds or more is subject to this law, including currently rated pilots who want to upgrade their ratings.

The requirements are immediate and apply to all U.S. and International Students who seek training in FA-420. Requirements for U.S. Students are different from those of our International Students. All U. S. Students, prior to receiving any ground school and FSTD instruction in FA-420, must prove their U.S. Citizenship. They must do this using one of the following documents.

1. A valid, un-expired United States Passport;
2. An original birth certificate with raised seal documenting birth in the United States or one of it's territories;
3. An original U. S. Naturalization Certificate with raised seal, Form N-550 or Form N-570;
4. An original certification of birth abroad, Form FS-545 or Form DS-1350;  
Or
5. An original Certificate of U. S. Citizen ship, Form N-560 or Form N-561.

If you use forms 2 through 5 you also need to have a valid driver License with a picture. The University will determine the validity of the proof of citizenship, and if valid, the University may immediately provide FA-420 training to the student.

Where the student is unable to prove U.S. Citizenship or has established her/his international citizenship, the law forbids training in FA-420 until the Transportation Security Administration has conducted a background check. Once the TSA has received a student's information including Finger Prints, it has 30 days to report a student's eligibility for this training to the University. If the student is not eligible, the University shall not train the student. If the TSA does not respond by the 31<sup>st</sup> day, the University may begin training, but if the TSA reports later that the student is not eligible, the University must immediately halt the student's training. This procedure only applies to international students. International students should bring along all paperwork they have to register for the course.

## Aviation Maintenance Science, Compliance Exam Course Description

### **AMS 190 General Maintenance Comprehension**

A means of registration for the General comprehensive examination. Students are initially able to take the exam at the end of the semester in which he/she is completing General courses. Registration for mid-term exams are for retesting purposes only. A GPA of 2.0 or higher is needed to take the exam. The student must pass with a 77% to receive the General Graduation Certificate.

### **AMS 290 Airframe Maintenance Comprehension**

A means of registration for the Airframe comprehensive examination. Students are initially able to take the exam at the end of the semester in which he/she is completing Airframe courses. Registration for mid-term exams are for retesting purposes only. A GPA of 2.0 or higher is needed to take the exam. The student must pass with a 77% to receive the Airframe Graduation Certificate.

### **AMS 390 Powerplant Maintenance Comprehension**

A means of registration for the Powerplant comprehensive examination. Students are initially able to take the exam at the end of the semester in which he/she is completing Powerplant courses. Registration for mid-term exams are for retesting purposes only. A GPA of 2.0 or higher is needed to take the exam. The student must pass with a 77% to receive the Powerplant Graduation Certificate.

## Experimental and Honors Course Descriptions

### **AE 495I- Dynamics and Control (2 credits)**

Linear Control. Open loop and close loop system analysis. Modeling, linearization and parameter system identification and validation of dynamical systems. State space system representation, transfer functions and system block diagrams. Control design based on transient and steady state specifications. Concepts of stability and controllability. Stability criteria. Control design and analysis of dynamical systems in time and frequency domains.

### **AE 495IL- Dynamics and Control Lab (1 credits)**

Laboratory for the fundamentals of dynamics and control systems. Course emphasizes dynamical systems testing through instrumentation, data acquisition, and data analysis. This lab includes modeling of dynamics for flexible link systems; experimental determination of the system natural frequency. Control design and implementation based on time domain transient and steady state requirements; pole placement and state feedback control design and implementation. Full-state-feedback vs. partial-state-feedback analysis. Finding first and second order system parameters. System response analysis to various input types. Sensor bias removal techniques and actuator saturation. Processing and analysis of experimental and simulated data; report writing and data presentation.

### **AE 495Y- Aircraft Structural Loads (3 credits)**

This course exposes the student to the general processes and tools used in the development of structural design loads. The student will prepare a comprehensive set of structural design loads for a representative subsonic aircraft. The aerodynamic loads will be obtained by three methods, wind tunnel model data, SURFACES, and theoretical (DATCOM) data. Results of these methods will be

compared and differences analyzed. Inertia effects will be added to the airloads to arrive at net loads for design.

### **AE 595Z- Applied Engineering Analysis (3 credits)**

Deals with the three important classes of applied engineering problems; (a) equilibrium problems, (b) eigenvalue problems, and (c) propagation problems. For each of these classes of problems discrete and continuous systems are considered. These problems are solved using applied mathematics skills and numerical methods. In addition, nonlinear problems are considered.

### **AS 295K- Digital Circuit Design for UAS Operational Applications (3 credits)**

Introduction to logic design and interfacing digital circuits with emphasis on unmanned aircraft systems operational applications. Topics covered provide UAS operators with a solid foundation in number systems, Boolean algebra, combinational logic circuits, digital multiplexers, circuit minimization techniques, flip-flop storage elements, shift registers, counting devices, sequential logic circuits, data transmission and programmable logic. This course is only offered to students enrolled in the Bachelor of Science in Unmanned Aircraft Systems Science Degree Program.

### **AS 295L- Digital Circuit Design for UAS Operational Applications Lab (3 credits)**

This introductory digital lab course is designed to give students in the Unmanned Aircraft Systems Program the basics of digital electronic devices and methodologies used in digital circuit design. Students will analyze, design, and trouble shoot logic gates, counters, registers, memory units, pulse and switching circuits, and control circuits as they apply to UAS operations. This course is only offered to students

## Experimental and Honors Course Descriptions

enrolled in the Bachelor of Science in Unmanned Aircraft Systems Science Degree Program.

### **COM 495B- Grant Writing (3 credits)**

Practice in researching, planning, and writing effective grant proposals. Examines the motivations behind philanthropy. Explores the proposal writer's role in collaborating with clients and developing funder relationships. Includes analysis of effective proposals and practice in writing complete grant proposals based on an understanding of funder research, client needs, and genre conventions.

### **CS 495H- Introduction to Malware Analysis (3 credits)**

With the increased use of the Internet and prevalence of computing systems in critical infrastructure, technology is undoubtedly a vital part of modern daily life. Unfortunately, the increasingly networked nature of the modern world has also enabled the spread of malicious software, or "malware", ranging from annoying adware to advanced nationstate sponsored cyberweaponry. As a result, the ability to detect, analyze, understand, control, and eradicate malware is an increasingly important issue of economic and national security. This course will introduce students to modern malware analysis techniques through readings and hands-on interactive analysis of real-world samples. After taking this course students will be equipped with the skills to analyze advanced contemporary malware using both static and dynamic analysis.

### **CSO 395B- Spacesuits and Human Spaceflight Operations (3 credits)**

Exploration of our place in the universe begins with understanding how we can survive in the harsh environment of space wearing

humankind's tiniest spaceship: the spacesuit. This course introduces students to human spaceflight topics including spacesuit history, design, human factors considerations, space life support systems, as well as intravehicular and extravehicular operations, which can be critically addressed from a knowledge **base of elementary** mathematics, materials, and exploration history. This course was developed as a study abroad program in Greece, which takes advantage of the clear water visibility in the Mediterranean Sea with practical scuba demonstrations underwater of space operations. The history of spaceflight is linked to ancient exploration technology and culture while living on a sailboat for two-weeks exploring the Cycladic Islands followed by two-weeks hiking scenic Greek mountains.

The on campus course offers hands-on experience and projects in the Spacesuit Utilization of Innovative Technology Laboratory (S.U.I.T. Lab). Students must meet listed prerequisites or obtain permission of the instructor.

### **EGR 195A- Spatial Visualization (1 credit)**

This is a new undergraduate course designed to develop fundamental skills essential for success in engineering; spatial visualization. Utilizing active learning techniques students explore different techniques for representing and visualizing three-dimensional objects including: flat patterns, rotations, symmetry, cutting planes, volumes of rotation, surfaces, isometric and orthographic views.

### **EGR 195B- Introductory Problems for Engineering Applications (3 credits)**

This course will provide an overview of the math topics most heavily used in the core sophomore-level engineering courses. All math topics will be presented within the context of an engineering application, and reinforced through extensive examples of their use in the core

## Experimental and Honors Course Descriptions

engineering courses. This course will also provide an introduction to the engineering analysis software MATLAB.

### **HF 395I- Driving Safety: Role of Driver Behavior, Design, and Policy (3 credits)**

Explores issues in road safety including driver behavior, the design of roadways and vehicles, and public policy. Topics including the effects of driver distraction, gender, age and alcohol on crash severity, discussion of the components of the driving task and how they are related to drivers' perceptual and cognitive abilities, and the effectiveness of interventions such as minimum drinking age laws in the case of drunk driving. Strengths and limitations of research investigating driving safety, driver behavior, and performance and the rationale behind methodology used in this research are discussed.

### **HFS 595K – Human Factors in Entertainment Systems (3 credits)**

An investigation of the relevant human factors research and design principles applied to entertainment systems. Game mechanics; gamification; flow and engagement; control and display interfaces including simulation and virtual reality; skill inventories; psychological factors including social dynamics, personality, addiction, and ethical behavior.

### **PSY 395E- Sport Psychology (3 credits)**

A survey course designed to introduce the student to the content, theory and application of sport psychology. It includes information about the history and current status of sport psychology as a discipline, as well as theory and research in topical areas such as: sport leadership, team building and team cohesion, sport performance, competition anxiety, sport motivation, and sport psychology interventions and techniques to enhance athlete performance.

### **ME 495F- Structural Crashworthiness and Impact Safety (3 credits)**

Impact mechanics of ring and ring systems; thin-walled structures under transverse and axial loading conditions; finite element method for impact simulations; structural impact and inertia effect; tearing damage; cylindrical and spherical shells subjected to impact; mechanical behavior of cellular solids (honeycomb, polymeric and metal foams etc.); impact behavior of composite laminates and sandwich structures; applications of impact analysis in the auto industry.

### **ME 495G- Clean Energy Systems (3 credits)**

This course provides an introduction to energy systems and renewable energy resources. Society's general energy requirements, future energy demands, waste energy, and undesired byproducts will be explored. Examples of energy systems to be considered are solar energy, hydroelectricity, wind energy, geothermal energy and wave energy.

### **ME 595CC- Convection Heat Transfer (3 credits)**

Fundamental equations of fluid flow and heat transfer, internal and external heat transfer, boundary layer equations, forced and natural convection, laminar and turbulent convection, viscous dissipation.

### **MSA 595P- Introduction to Research Methods and Statistical Analysis (3 credits)**

An Introduction to Research Methods and Statistical Analysis is designed to provide graduate students with a foundational overview of quantitative and qualitative inquiry and research methods. The course will provide an overview of the important concepts of research design, data collection, statistical and interpretative analysis, and final report presentation. Special emphasis is placed on the selection of

## Experimental and Honors Course Descriptions

appropriate methodologies for a variety of problem solving situations. Students will gain foundational prerequisite knowledge and skills to perform the basic computations associated with descriptive, parametric and non-parametric inferential statistics to include using the Statistical Package for the Social Sciences (SPSS) as an industry standard software application for rendering statistical analysis.

### **MSA 695A- Human Factors of Unmanned Aerospace Systems (3 credits)**

This course is designed to present an overview of the importance of major human factors issues associated with unmanned systems, including remotely operated and autonomous unmanned aerial systems (UAS) and unmanned space systems operations across a variety of platforms employed in both commercial and military operations. Emphasis will be placed on the differences and commonalities between occupied and unoccupied systems, with a focus on the human factor issues encountered by individual unmanned operators (pilots and sensor operators) as well as UAS teams. Students will become familiar with human factor issues surrounding unmanned launch, recovery, long duration operations, fatigue, human performance, Ground Control Station (GCS) design, use of automation, Situation Awareness (SA), Crew Resource Management (CRM), integration into the National Air Space (NAS), attitudes and perspectives of both government agencies and public entities, use of technology to compensate for no-pilot-onboard, and regulatory issues and solutions. Discussions of human capabilities and limitations as it relates to safe and effective operation of unmanned aircraft and space systems in a variety of commercial and military operations will be included.

### **SF 395D- Language as a Factor in Aviation Safety (3 credits)**

This course will develop students' awareness and understanding of the role of language as a critical factor in aviation safety. Students will

gain an understanding of basic linguistic principles that relate to aviation operational safety in order to identify, discover, analyze, and address a range of language-in-aviation issues.

### **WX 395O- Water and Energy in the Atmosphere (3 credits)**

This course explores fundamental topics in atmospheric physics and thermodynamics with a focus on their importance to the evolution of the Earth's weather and climate. Topics include: solar and terrestrial radiation exchanges, orbital influences on seasons, atmospheric structure and composition, role of water phase changes. Applications of concepts to operational weather and climate forecasting are introduced.

### **WX 395P- Hurricanes and Tropical Meteorology (3 credits)**

A qualitative introduction to hurricanes and tropical meteorology. Climatology of the tropical atmosphere; annual global climatological distribution of hurricanes; hurricane structure; atmospheric conditions (un)favorable for hurricane formation and intensification; formation and intensification theories; techniques for track and intensity forecasting; extratropical transition; introduction to model guidance; impacts to aviation; aircraft reconnaissance; instruments used to observe hurricanes; intensity estimation techniques; current forecasting challenges; ongoing research questions.



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### **HON 150.01/HON 150.02- Human Migration**

Current events in Europe and the United States have drawn acute attention to recent waves of human migrants—and spawned intense debates over what “ought” to be our personal and national responses to these pressures. Mass migrations have punctuated human history for eons. A close and thoughtful look at some of the most significant migrations ... as depicted in myth, religion, literature, film, and documentary ... encourages us to discover common causes and potential longer-range effects of these displacements, and it will also encourage us to debate contemporary policy recommendations and reactions with more informed insight.

### **HON 150.03 - Learning How We Learn**

Students will examine the ways particular people learn and explore the central themes, issues, and controversies in the American education system. Perhaps America's greatest institutional success and failure, the educational system deserves careful attention. Our shared classroom provides a unique vantage for this focus on education: we can compare our primary experiences and discuss the value of graduation day. Together, we will attempt to answer the following questions: How does the brain learn and adapt? What are the most influential educational movements and policies, and who do they leave out? What ways can we make the educational system better? To answer these questions we will review features of neurosciences, clips from television shows and films, the history of American education, and specific ways we learn about historical events. Our readings and discussion will explore the ideals, problem-solving roles, and visions of education and learning. Major research will focus how we can better teach historical moments and how power and privilege interact with educational opportunity and achievement. We will engage in research and the writing process, hear from multiple guest lecturers, and complete experiential activities, including direct observations, interviews, and structured debates.

### **HON 150.04- Disruptive Technology: Past, Present, and Future**

This cross disciplinary course challenges students to consider how our past “disruptive technologies” (writing, books, archiving) have led to paradigmatic shifts that affect many aspects of our culture, including but not limited to communication, literacy, identity, consumerism, intellectualism, health and wellness. We will also grapple with the present digital culture as a way to prepare us to consider which trends might impact our future (artificial intelligence, semantic web, machine learning, wearable tech, nanotechnology). Our readings span many disciplines: philosophy, communication, technology, rhetoric, and the humanities. We use key theorists to consider classic texts and popular culture artifacts/creative writing (sci-fi)/art. Students complete analytical research and writing assignments as well as put theory into practice by creating their own digital artifacts.

### **HON 150.05- Odysseus in America**

Homer's ancient epic, *The Odyssey*, explores the world's oldest soldier's coming-home story. It is a story rich in themes that continue to speak to us today. For this reason, *The Odyssey* is often reproduced in contemporary novels, films, and poetry collections. Furthermore, the concept of *odyssey* itself has served western and eastern traditions as a blueprint for the *fulfilled* life. This course will couple a close study of Homer's *Odyssey* with readings in ancient Greek philosophy and an examination of echoes of the epic in modern novels such as Atwood's *Penelopiad*, films such as the *Life of Pi*, and poetry such as Louise Gluck's *Meadowlands*. We will also explore historical figures such as Cicero and Jefferson, whose foundational writings equate *odyssey* with *the fulfilled life*.

**Topics that we will explore:** Ancient Greek concepts of the noble warrior and ancient Greek definitions of a *fulfilled life*; the soldier's transition from combat to civilian life; “good girls and bad girls” in ancient and modern literature; the classic mythic motif of a son's

## Experimental and Honors Course Descriptions

desire to know his absent father; and the tensions between loyalty to conscience and loyalty to country.

### **HON 350.01 – America’s Warfare Paradox**

In this Honors seminar, students will begin by exploring American foundational ideologies, those values and belief systems spawned the concept of American Exceptionalism. We will, in addition, define and discuss America’s long-standing paradox: the urge to isolation, which is often in conflict with the urge to intervention. The centerpiece of the course is a study of the histories and creative artifacts that have arisen during major American wars, including the Revolutionary War, the Civil War, World Wars I and II, the Vietnam War, and more recent warfare interventions. Students will read and analyze texts about American values and belief systems and about selected wars. Ultimately, they will conduct an in-depth analysis of one or more American warfare artifacts.

### **HON 350.02 – Society and the Environment: The Ethics of Sustainability**

Engineers, scientists and other professionals who engage in the development and application of technology routinely make decisions that impact the welfare of society and the natural environment. This class builds on the theories and concepts introduced in **HON 250- Society and the Environment: Developing a Sustainability Ethic I** and focuses on developing a deeper understanding of the complexity of environmental, social, and economic sustainability issues via the execution of a semester-long team-research project. The objective of the project is to conduct in-depth research on a sustainability concern and identify alternative and actionable solutions to the concern identified. You will also explore the challenges involved in making and implementing decisions in the midst of complex sustainability issues. Students will engage in transformational education, including analyzing critical narratives, engaging in systems-thinking

simulations, attending field trips, hearing from guest lecturers, and participating in debates.

### **HON 350.03 - History and Practice of Ancient Astronomy**

An introduction to ancient Greek astronomy: its literary, scientific, and philosophical components; how it was influenced by Babylonian astronomy and how it influenced astronomy in the Middle Ages. Special attention will be paid to the Antikythera Mechanism, the oldest known computer. Students will practice ancient and medieval astronomy through exercises and observations which include: using shadow plots to determine geographic latitude, making and testing sundials, and making and using astrolabes. Students will also explore modern sundials through written and oral presentations.

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	S	A	B	F		S	A	B	F		S	A	B	F		S	A	B	F
AE 201	X	?		X	AS 235	X		X	X	BA 221	X	*	*	X	BA 615				?
AE 307	X		?	X	AS 235L	X		X	X	BA 225	X	*	*	X	BA 616		?		
AE 308	X		?	X	AS 254	X	X		X	BA 310	X	*	*	X	BA 618	?		X	
AE 313	X	?		X	AS 309	X	X	X	X	BA 312	X	*	*	X	BA 620				
AE 314	X			X	AS 310	X	X	X	X	BA 314	X	*	*	X	BA 625				
AE 315	X			X	AS 311	X		X	X	BA 315	X	*	*	X	BA 630				
AE 316	X	?		X	AS 312				X	BA 317	X	*	*	X	BA 632				
AE 318	X	?		X	AS 315	X			X	BA 318			?	X	BA 635	X			X
AE 350	?			?	AS 321	X	X	X	X	BA 320	X	*	*	X	BA 645				?
AE 408	X	?		X	AS 340	X	X		X	BA 322	X	*		X	BA 646	?			
AE 409				X	AS 350	X	X	X	X	BA 324	X			X	BA 650	?			
AE 413	X	?		X	AS 356	X		X	X	BA 325	X			X	BA 651				?
AE 415	X			X	AS 357	X	X	X	X	BA 326	X				BA 655	?			
AE 416	X			X	AS 380	X	X	X	X	BA 327	X			X					
AE 417	X			X	AS 387	X	X	X	X	BA 330	X	*		X	CEC 220	X			X
AE 418	X		?	X	AS 402	X		X	X	BA 332	X	*	*	X	CEC 222	X			X
AE 420	X			X	AS 403	X	X		X	BA 334	X				CEC300	X			
AE 421	X			X	AS 403L	X	X		X	BA 336	X			?	CEC 315	X			
AE 426	X		?	X	AS 405	X	X		X	BA 335	X	*	*	X	CEC 320	X			?
AE 427	X			X	AS 408	X		X	X	BA 340	X				CEC 322	X			?
AE 432	X		?	X	AS 410	X		X	X	BA 345				X	CEC330				X
AE 434	X		?	X	AS 411	X		X	X	BA 395D				X	CEC335	?			?
AE 435	X			X	AS 412	X			X	BA 395E	X	*		X	CEC410				X
AE 440	X			X	AS 414	X			X	BA 395F	X			X	CEC411				X
AE 445	X			X	AS 420	X	X	X	X	BA 405	X			X	CEC 420				X
					AS 435	X	X	X	X	BA 410	X			X	CEC 421	X			
AMS 115	X	X		X	AS 472	X	X	X	X	BA 411	X				CEC 440	?			?
AMS 116	X		X	X	AS 473	X			X	BA 412	X				CEC 450	X			
AMS 117	X	X		X	AS 474	X			X	BA 418	?			?	CEC 460				X
AMS 118	X		X	X	ASC 101	X	X	X	X	BA 419	X				CEC 470				X
AMS 261	X	X		X	AT 202	X	?	X?	X	BA 420	X	*	*	X	CEC 500	X			
AMS 262	X	X		X	AT 305	X	?	X?	X	BA 422	?				CEC 510				X
AMS 263	X		X	X	AT 315	X	X?	?	X	BA 424	X				CEC 600	?			?
AMS 264	X		X	X	AT 401	X	X?	?	X	BA 426				X					
AMS 271	X		X	X	AT 405	X	X?	?	X	BA 427	X			X	CIV 140				X
AMS 272	X		X	X	AT 406	X	X?	?	X	BA 430	?				CIV 222	X			
AMS 273	X		X	X						BA 434	?				CIV 304				X
AMS 274	X		X	X	AVT 301	X			X	BA 436	X			X	CIV 307				X
AMS 365	X	X		X	AVT 303			X	X	BA 450				?	CIV 311				X
AMS 366	X	X		X	AVT 305	X		X	X	BA 511	X	?		X	CIV 316				X
AMS 375	X	X		X	AVT 320				X	BA 514	X		?	X	CIV 320	X			
AMS 376	X	X		X	AVT 325	X			X	BA 517	X			X	CIV 340	?			?
AMS 380	X	X		X	AVT 401	X			X	BA 518	X			X	CIV 362	?			?
AMS 384	X	X		X	AVT 402	X			X	BA 520	X	?		X	CIV 370	?			
AMS 388	X		X	X	AVT 403	X			X	BA 521	X			X	CIV 421				X
AMSA 490	X			X						BA 522	X			X	CIV 422				?
					BA 101	X			X	BA 523	X	?		X	CIV 424				?
AS 120	X	X		X	BA 120	X	*	*	X	BA 603					CIV 431	?			?
AS 121	X	X	X	X	BA 201	X	*	*	X	BA 604					CIV 432	?			?
AS 220	X	X		X	BA 210	X	*	*	X	BA 607				?	CIV 441	?			
AS 220L	X	X		X	BA 215	X	*	*	X	BA 609				?	CIV 447	X			
AS 221	X	X	X	X	BA 220	X	*	*	X	BA 610					CIV 457				?

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CIV 470				X	EC 315	X	*	*	X	EP 497	X				HS 325	X		*	X	
CIV 480	X				EC 420	X	*	*	X					HS 335	X					
CIV 490	X									ES 201	X	*	*	X	HS 350	X		*	X	
					EE 223	X				ES 202	X	*	*	X	HS 360	X		*	X	
COM 008	X			X	EE 224	X				ES 204	X	*	*	X	HS 365				X	
COM 018	X			X	EE 300				X	ES 206	X	*	*	X	HS 375	X		*	X	
COM 020	X		X	X	EE 301				X	ES 305	X	*	*	X	HS 399	X		*	X	
COM 122	X	X	X	X	EE 302				X	ES 320	X	*	*	X	HS 405	X		*	X	
COM 122I	X			X	EE 303	?			?	ES 321	X	*	*	X	HS 410	X			X	
COM 219	X	X	X	X	EE 304				X	ES 403	X			X	HS 411	X		*	X	
COM 221	X	X	X	X	EE 307	X				ES 405	X	*	*	X	HS 435	X				
COM 222	X			X	EE 308				X					HS 450					X	
COM 225				X	EE 310				X	FA 121	X	X	X	X	HS 465				X	
COM 230	X	X		X	EE 335	X	X	X	X	FA 215	X	X	X	*	X	HS 480	X			X
COM 260				X	EE 336	X	X	X	X	FA 221	X	X	X	*	X	HS 491		X	X	
COM 265				X	EE 340	X			?	FA 321	X	X	X	*	X	CEHS 396	X	X	X	X
COM 320	X				EE 401	X			X	FA 323	X	X	X	X						
COM 322					EE 402	X			X	FA 323L	X	X	X	X	HU 140 series	X	X	X	X	
COM 350					EE 417	X				FA 324	X	X	X	X	HU 300	X			X	
COM 360				X	EE 420				X	FA 326	X	X	X	X	HU 302					
COM 364				X	EE 421	X				FA 417	X	X	X	X	HU 305	X				
COM 410					EE 430				X	FA 417L	X	X	X	X	HU 310	X				
COM 411	X				EE 430L				X	FA 420	X	X	X	X	HU 319				X	
COM 415	X			X	EE 500				X	FA 460	X	X	X	X	HU 325				X	
COM 460					EE 510				X						HU 330	X	X		X	
					EE 515				X	HF 300	X	X		X	HU 335	X			X	
					EE 525				X	HF 302	X				HU 338	X			X	
CS 118	X			X	EE 620	X				HF 305				X	HU 341	X		X	X	
CS 120	X	X	X	X	EE 625	?			?	HF 310				X	HU 345	X			X	
CS 222	X			X						HF 312	X				HU 355					
CS 223	X			X						HF 315	?	?		?	HU 375					
CS 225	X	X		X	EGR 5	X			X	HF 321	?	?		?	HU 415	X			X	
CS 303	?			?	EGR 101	X		X	X	HF 326	?	?		?	HU 420				X	
CS 315				X	EGR 111	X			X	HF 335	X			X	HU 475	X			X	
CS 317	X				EGR 115	X	*	*	X	HF 340	?	?		?						
CS 332				X	EGR 120	X	*	*	X	HF 400	X			?	IT 220	X			X	
CS 335	?			?	EGR 195A	X		X	X	HF 410	?	?		?	IT 310	X				
CS 344	X			?	EGR 195B				X	HF 412	?	?	?	?	IT 320	X			X	
CS 350	?			?	EGR 305	X	*		X	HF 415	?	?	?	?	IT 330				X	
CS 420				X						HF 422	?	?	?	?	IT 340	X			X	
CS 490				X						HF 490	X	X	X	X						
CS 491	X				EP 320	X									LAR 101	X				
					EP 391	?			X						LAR 102	X		X		
CSO 101				X	EP 393				X	HS 110	X		*	X	LAR 201				X	
CSO 230				X	EP 394	X				HS 155	X		*	X	LRU 195				X	
CSO 330				X	EP 395	X			X	HS 215	X		*	X	LRU 195X	X			X	
CSO 390				X	EP 400					HS 235	X	*	*	X	LRU 295X				X	
CSO 410				X	EP 410	X			?	HS 280	X			X					X	
					EP 420					HS 290	X			X						
EC 200	X	*	*	X	EP 425	X	?			HS 310	X		*	X	MA 004	X			X	
EC 210	X	*	*	X	EP 440	?			X	HS 315	X		*	X	MA 006	X	X	X	X	
EC 211	X	*	*	X	EP 455	X			?	HS 320	X		*	X	MA 111	X	X	X	X	
EC 225	X	*	*	X	EP 496				X	HS 321				X	MA 112	X	X	X	X	

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MA 120	X			X	ME 503				X	MSL 101				X	PS 208	X				X
MA 140	X			X	ME 506				X	MSL 101L				X	PS 215	X				X
MA 145			X	X	ME 508	X				MSL 102	X				PS 216	X				X
MA 220	X			X	ME 510	X				MSL 102L	X	X			PS 219	X				X
MA 222	X	X		X	ME 700	X	X	X							PS 220	X				X
MA 241	X	X	X	X											PS 250	X	*	*		X
MA 242	X	X	X	X	MSA 508	X			X	MSL 201				X	PS 253	X	*	*	X	X
MA 243	X	X	X	X	MSA 514				X	MSL 201L				X	PS 290	X	*	*		X
MA 295	X		X		MSA 515	X			X	MSL 202	X				PS 301	?	*	*		X
MA 305	X			X	MSA 516	X			X	MSL 202L	X				PS 302					
MA 341	X				MSA 518		X			MSL 301				X	PS 303	?				X
MA 345	X	X	X	X	MSA 519					MSL 301L				X	PS 304					
MA 348	X			X	MSA 520	X			X	MSL 302	X				PS 305	X				X
MA 350	X				MSA 524		X			MSL 302L	X				PS 308					
MA 410				X	MSA 550			X		MSL 401				X	PS 309	?				?
MA 412	X		X	X	MSA 590	X	X	X	X	MSL 401L				X	PS 309L	?				?
MA 413				X	MSA 604	X	X		X	MSL 402	X				PS 320	X				
MA 420	X				MSA 608	X			X	MSL 402L	X				PS 401					
MA 432	X	X		X	MSA 609			X	X	MSL PT	X			X						
MA 438	X			X	MSA 610				X						PSY 101	X	*	*		X
MA 441	X	X		X	MSA 611	X			X	NSC 100	X			X	PSY 310					X
MA 442	X	X			MSA 612	X	X		X	NSC 101				X	PSY 312					X
MA 443				X	MSA 613	X				NSC 102	X				PSY 315	X				X
MA 488	X			X	MSA 614	X				NSC 201				X	PSY 320	?		?		?
MA 490	X			X	MSA 616	X			X	NSC 202	X				PSY 322	X				X
MA 502	X			X	MSA 617	X	X	X	X	NSC 202L	X				PSY 335	X				X
MA 504		X			MSA 618	X	X	X	X	NSC 301				X	PSY 340	?		?		?
MA 510	X				MSA 620	X			X	NSC 302	X				PSY 345	?		?		?
					MSA 622	X				NSC 310				X	PSY 350	X		?		X
ME 200	X			X	MSA 627			X		NSC 311				X	PSY 400					?
ME 303	X			X	MSA 636	X				NSC 401				X						
ME 304	X			X	MSA 641				X	NSC 401L				X	SE 300	X				X
ME 305	X			X	MSA 644			X		NSC 402	X				SE 310	X				*
ME 306	X				MSA 654	X				NSC PT	X			X	SE 320	X				
ME 307	X				MSA 661		X								SE 410	X				
ME 400	X	X			MSA 662		X			PS 101	X	*	*	X	SE 420	X				
ME 401	X			X	MSA 670			X	X	PS 101L	X	*	*	X	SE 450					X
ME 402				X	MSA 672			X		PS 102					SE 451	X				
ME 404	X				MSA 674			X		PS 103	X	X	X	X	SE 500					X
ME 405	X				MSA 691			X		PS 103L	X	X	X	X	SE 505					X
ME 407				X	MSA 696	X	X	X	X	PS 104	X	X	X	X	SE 510	X				
ME 408				X	MSA 699	X	X	X	X	PS 104L	X	X	X	X	SE 530					X
ME 409				X	MSA 700	X	X	X	X	PS 105	X	*	*	X	SE 535	?				?
ME 410	X	X								PS 105L	X	*	*	X	SE 550	?				?
ME 411				X	MET 200	X			?	PS 107	?			?	SE 555					X
ME 413				X						PS 108					SE 575	?				?
ME 414				X	MSE 500	X			X	PS 109				X	SE 590	?				?
ME 419	X				MSE 510				X	PS 140				X	SE 610					X
ME 423	X				MSE 530	X				PS 141	X	*	*	X	SE 625	X				
ME 427	X				MSE 540				?	PS 142	?			?	SE 655	X				
ME 428				X	MSE 555	X				PS 150	X	X	X	X	SE 697					X
ME 500	X				MSE 610				X	PS 160	X	X	X	X						



**COLLEGE OF AVIATION**

Dean – Dr. Alan Stolzer	COA 102C	226-7352
Associate Dean – Daniel Friedenzohn	COA 102B	226-6857
<b><u>Aeronautical Science (AS, ASC, SIM, UAS)</u></b>		
Department Chair– Dr. Mike Wiggins	COA 218	226-7030
Program Coordinator AS – Scott Reese	COA 245	226-7797
Program Coordinator Aeronautics – Janet Marnane	COA 244	226-6452
Program Coordinator UAS- John Robbins	COA 249	226-7053
<b><u>Aviation Maintenance Science (AMS)</u></b>		
Department Chair- Charles Horning	EBM 216	226-7693
Program Coordinator- Isaac Martinez	EBM 219	226-6788
<b><u>Applied Aviation Sciences (MET, ATM, AOS, SFO)</u></b>		
Department Chair – Sid McGuirk	COA 318	226-7125
Program Coordinator SFO – Debbie Schaum	COA 319	226-6443
Program Coordinator Meteorology - Dr. Tom Guinn	COA 341	226-6858
Program Coordinator ATM –Dr. Bill Coyne	COA 340	226-6794
Program Coordinator AOS - Dr. Michael O'Toole	COA 322	323-5062
Program Coordinator SFO – Debbie Schaum	COA 319	226-6443
<b><u>Flight Department (FA)</u></b>		
Department Chair/Assistant Dean – Dr. Ken Byrnes	Flt Ops 213-N	226-6893
Chief Flight Instructor- Ivan Grau	Flt Ops 214	226-6993
Scheduling Coordinator – Jamie Cox	Flt Ops 115	226-6383
PhD for Aviation- Dr. Tony Cortés	COA 137I	226-7560

**Graduate Studies**

Associate Dean of Research & Graduate Studies- Dr. Steven Hampton	COA 300B	226-6725
Program Coordinator MSA–Dr. Don Metscher	COA 132A	323-5061

**COLLEGE OF ENGINEERING**

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Associate Dean- Dr. Yi Zhao	LB 310	226-6746
Associate Dean of Research- Dr. Susan Allen	LB 313	226-6229
Associate Dean of MMSE- Dr. James Ladesic	LB 309	226-7407
<b><u>Engineering Fundamentals (EGR)</u></b>		
Department Chair – Dr. Heidi Steinhauer	LB 124	226-6978
Program Coordinator – Lisa Davids	LB 123	226-7057
<b><u>Aerospace Engineering (AE, ES)</u></b>		
Department Chair - Dr. Anastasios Lyrintzis	LB 206	226-7286
UG Program Coordinator BSAE – Glenn Greiner	LB 246	226-7267
Program Coordinator MAE/MSAE- Dr. Magdy Attia	LB 145	323-8811
<b><u>PhD in Aerospace Engineering-PhD-AE</u></b>		
Program Coordinator-Dr. Anastasios Lyrintzis	LB 206	226-7286
<b><u>Mechanical Engineering (ME, ES)</u></b>		
Department Chair – Dr. Eduardo Divo	LB 145	226-7987
Associate Chair- Dr. Patrick Currier	LB 148	226-7439
Program Coordinator ME- Dr. Fady Barsoum	LB 146	226-6618
Program Coordinator MSME- Dr. Jean-Michel Dhainaut	LB 154	226-7717
<b><u>PhD in Mechanical Engineering-PhD-ME</u></b>		
Associate Chair/Program Coordinator-Dr. Eduardo Divo	LB 145	226-7987
<b><u>Civil Engineering (CIV)</u></b>		
Department Chair/Program Coordinator CIV – Dr. Ashok Gurjar	LB 324	226-7728
Program Coordinator MSCIV- Dr. Ashok Gurjar	LB 324	226-7728
<b><u>Electrical, Computer, Software, &amp; Systems Engineering (EE, CEC, CS, SE, SYS)</u></b>		
Department Chair–Dr. Timothy Wilson	LB 345	226-6994
Associate Chair – Farahzad Behi	LB 361	226-6454
Program Coordinator EE CEC CS SE SYS- Farahzad Behi	LB 361	226-6454
Program Coordinator MSE/MSSE- Dr. Massood Towhidnejad	LB 354	226-6891
Program Coordinator MSECE- Dr. Jianhua Liu	LB 349	226-7713
Program Coordinator MSUASE- Dr. Richard Stansbury	LB 346	226-7923
Program Coordinator MSCYBE- Dr. Remzi Seker	LB 353	226-7409
Program Coordinator MSSYE-Dr. Radu Babiceanu	LB 362	226-7535
<b><u>PhD in Electrical Engineering &amp; Computer Science-PhD-EECS</u></b>		
Program Coordinator- Dr. Remzi Seker	LB 353	226-7409

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Associate Dean - Dr. Massoud Bazargan	COB 282	226-6705
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<b><u>Economics, Finance, &amp; Information Systems</u></b>		
Department Chair – Dr. Bert Zarb	COB 254	226-7942
UG Program Coordinator –Dr. Jennifer Hinebaugh	COB 285	226-6564
Program Coordinator MSAF- Dr. Anke Arnaud	COB 283	226-4962
<b><u>Management, Marketing, &amp; Operations</u></b>		
Department Chair – Dr. Dawna Rhoades	COB 231	226-7756
Program Coordinator MBA/MBAM- Dr. Anke Arnaud	COB 283	226-4962
<b><u>PhD for Aviation Business Administration-</u></b>		
Dr. Massoud Bazargan	COB 282	226-6705

**COLLEGE OF ARTS AND SCIENCES**

Dean – Dr. Karen Gaines	COAS 421.07	226-7076
Associate Dean-Dr. Donna Barbie	COAS 421.10	226-4809
Associate Dean of Research – Dr. Sergey Drakunov	COAS 421.09	226-7712
Associate Dean for Academic Advancement and COAS Operations- Jan Collins	COAS 101.01	226-6656
<b><u>Human Factors (HF, HFS, PSY, AP)</u></b>		
Department Chair - Dr. Scott Shappell	COAS 401.06	226-6790
Associate Chair/Program Coordinator HF – Eric Vaden	COAS 401.04	226-7112
Program Coordinator AP-Dr. James Novak	COAS 401.10	226-7381
Program Coordinator MSHF - Dr. Christina Frederick	COAS 401.08	226-7037
PhD in Human Factors – Dr. Beth Blickensderfer	COAS 401.12	323-8065
<b><u>Physical Sciences (PS, EP)</u></b>		
Department Chair-Dr. Terry Oswalt	COAS 319.23	226-7571
Associate Chair- Dr. John Hughes	COAS 319.19	226-7122
<b><u>Engineering Physics/Space Physics</u></b>		
Program Coordinator EP - Dr. William MacKunis	COAS 319.02	226-6647
Program Coordinator PS - Dr. Bereket Berhane	COAS 319.14	226-7679
Program Coordinator SP – Dr. Anthony Reynolds	COAS 319.20	226-7752
Program Coordinator AA - Dr. Jason Aufdenberg	COAS 319.26	226-7123
<b><u>MS Engineering Physics – MSEP</u></b>		
Program Coordinator - Dr. Matthew Zettergren	COAS 319.15	226-7006
<b><u>PhD in Engineering Physics-PhD-EP</u></b>		
Program Coordinator- Dr. Matthew Zettergren	COAS 319.15	226-7006
<b><u>Humanities and Communications (HU, COM, IS)</u></b>		
Department Chair-Dr. Sally Blomstrom	COAS 201.17	226-6668
Associate Chair- Dr. Jennifer Wojton	COAS 201.16	226-6629
<b><u>Interdisciplinary - (IS)</u></b>		
Program Coordinator – Dr. Joanne Detore	COAS 201.11	226-6639
<b><u>Communications - (COM)</u></b>		
Program Coordinator – Dr. Rachel Friedman	COAS 201.12	226-6628
<b><u>Mathematics Department (MA)</u></b>		
Department Chair- Dr. Jayathi Raghavan	COAS 301.06	226-6217
Associate Chair – Dr. Stefan Mancas	COAS 301.13	226-7749
Program Coordinator BSCM – Dr. Frederique Drullion	COAS 301.18	226-6654
<b><u>Security Studies &amp; International Affairs (SSIA)</u></b>		
Department Chair- Dr. Gary Kessler	COAS 128.03	226-7947
Program Coordinator HS – Dr. Daniel Cutrer	COAS 128.04	226-7124
Program Coordinator GCS- Dr. Glenn Dorn	COAS 128.06	226-7907
Program Coordinator MSCMP-Dr. Glenn Dardick	COAS 128.14	226-7585
Program Coordinator MSHSR- Dr. Bill Lahneman	COAS 128.08	323-8851
Army ROTC (MSL) – LTC Todd Mitchell	ROTC 215	226-6471
Air Force ROTC (AF) - Col. Kimberley Ramos	ROTC 109	226-6880
Naval ROTC (NSC) – CAPT Pat Everly	ROTC 205	323-8990
Honors Program Director-Dr. Geoff Kain, Honors Program Center	Mod 23-100	226-6650
Assistant Dean Retention and Parent/Student Programs - Rich Nicols	COB 115	226-7073
Embry-Riddle Language Institute- Keith Boswell, Director	Tomcat 30-2 Suite 218	226-7614