Embry-Riddle Aeronautical University

Spring 2017

Undergraduate and Graduate

Registration guidelines and Important Information

STUDENTS FIRST

EMBRY-RIDDLE Aeronautical University

Office of the Registrar

DAYTONA BEACH CAMPUS CALENDAR
Undergraduate and Graduate
Spring 2017

Jan 4	**Full payment or enrollment in a payment plan must be *received* by January 4 @ 4:00 pm ET in order to retain your Spring 2017 schedule (**Tuesday**).**
Jan. 5-Jan. 18	**New registration requires full payment or enrollment in a payment plan *immediately* upon registration to retain your Spring 2017 schedule.**
PLEASE NOTE:	**All payment plans require a down payment and electronic signature**

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Jan 9 & 10	**Orientation** (Monday – Tuesday)
Jan. 10	**Registration** (Tuesday)
Jan. 11	**Classes begin** (Wednesday)
Jan. 11-18	Add period and also first day of late registration (Wednesday–Wednesday), 8:00am to 5:00pm ET – Student Center Annex, Second Floor
Jan. 16	**Holiday** – Martin Luther King Day (Monday)
Jan. 18	**Last day of late registration** (Wednesday)
*Jan. 18	Last day to **withdraw from ALL** classes and receive **100% refund** (Wednesday)
*Jan. 25	Last day to **withdraw from ALL** classes and receive **80% refund** (Wednesday)
Jan 31	Last day to drop courses with no notation of course enrollment on the academic transcript. Academic courses ONLY (Tuesday)
*Feb. 1	Last day to **withdraw from ALL** classes and receive **60% refund** (Wednesday)
Feb. 1	Early Alert grades distributed to students (Wednesday)
Feb. 7	**Last day to make up incomplete (I) grades** for undergraduate and graduate courses **from Fall 2016** (Tuesday)
* Feb. 8	Last day to **withdraw from ALL** classes and receive **40% refund** (Wednesday)
Feb. 10	Deadline for Academic Standards/Readmissions for Sum A 2017 (Friday)
*Feb. 15	**Last day to withdraw from ALL** classes and receive **20% refund** (Wednesday)
Feb. 20	**Holiday** – President's Day (Monday)
Mar. 1	Industry/Career Expo- **No classes** (Wednesday)
Mar. 1	**Mid-Term progress reports** distributed to students (Wednesday)
Mar 13-17	**Spring Break** (Monday – Friday)
Mar 15	**Last day to submit application for Spring 2017 graduation**. (Wednesday)
Mar. 29	Deadline for Academic Standards/Readmissions, Sum B 2017 (Wednesday)
April 4	Last day to **officially drop courses** and **receive a grade of "W".** Also the last day to **change course registration from credit to audit**. Students who change to audit must continue to attend classes. (Tuesday)
Apr. 27	**Last day of classes** (Thursday)
Apr. 28	**Study Day** (Friday)
Apr. 29	**Final Exams** (Saturday)
May 1-3	**Final Exams** (Monday-Wednesday)
May 8	**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 Office of the Registrar. 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.

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 Spring 2017 is Oct. 19 –Oct 30. 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

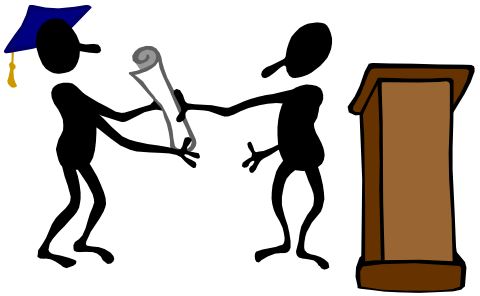
Fall and Spring semesters - 12 credit hours constitute the minimum load for full-time student status.

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!



Spring 2017 Ceremony Participation

All Students wishing to participate in the Spring 2017 ceremony must apply for graduation by Wednesday, March 15th.

Both Graduate and Undergraduate students must be registered for and complete all remaining degree requirements in the Spring 2017 term to be eligible to participate in the May 8th ceremony.

The graduation application fee is $75, and includes the first diploma. Any additional diplomas are charged at $50 per diploma.

Important Dates

March 15th (Wednesday): Application Deadline In order to be evaluated and considered for degree completion **and** participation in the **May** 2017 ceremony, A graduation application and all degree completion paperwork (advance standing forms, course substitutions, changes of AOC/minor, etc.) must be received in Office of the Registrar by this date.

May 8th (Monday): Commencement Ceremony/Degree conferred. See the Daytona Beach Graduation page for more details

You must 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
SPRING SEMESTER 2017
April 29, May 1, 2 & 3

COMMON EXAMINATIONS:

COM 008, COM 018, COM 122, COM 219, COM 020, COM 122NNS	Monday, May 1	1015-1215
HU 140, HU 141, HU 142, HU 143, HU 145, HU 146, COM 221	Saturday, April 29	0800-1000
CS 225, EE 335	Monday, May 1	1230-1430
PS 103, PS 104, PS 150, PS 160	Tuesday, May 2	0800-1000
MA 004, MA 006, MA 241, PS 250, ES 405	Saturday, April 29	1700-1900
MA 111, MA 242, MA 112	Saturday, April 29	1230-1430

CLASSES MEETING MW, MWF, M, W, MTTHF, DAILY

0800-0850	Monday, May 1	0800-1000
0900-0950	Monday, May 1	1445-1645
1000-1050	Saturday, April 29	1445-1645
1100-1150	Monday, May 1	1915-2115
1200-1250	Wednesday, May 3	1915-2115
1300-1350	Tuesday, May 2	1230-1430
1400-1450	Wednesday, May 3	0800-1000
1500-1550	Tuesday, May 2	1700-1900
1600-1650	Wednesday, May 3	1230-1430
1700-2050	Wednesday, May 3	1500-1700

CLASSES MEETING T, TH, TTH:

0815-0930	Saturday, April 29	1015-1215
0945-1100	Saturday, April 29	1915-2115
1115-1230	Tuesday, May 2	1445-1645
1245-1400	Monday, May 1	1700-1900
1415-1530	Tuesday, May 2	1015-1215
1545-1700	Wednesday, May 3	1015-1215
1715-1830	Tuesday, May 2	1915-2115

*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 INSTRUCTORS 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 CHAIR.

COURSE INSTRUCTOR FOR FURTHER DETAILS.

EMBRY-RIDDLE Aeronautical University

OFFICE OF GLOBAL ENGAGEMENT

Summer Programs

Embry-Riddle professors host a variety of two to five week summer programs across the globe at half-price tuition! This reduced tuition serves as an incentive for students to explore other countries, cultures, languages, foods and experiences while advancing their education and enhancing future career competitiveness. Living expenses in many of our destination can be significantly lower than in the United States, allowing student to save more.

Summer A 2017

Greece – Antikythera Mechanism

- Sail Greek Islands, Hike through Mountains, Study the Antikythera Mechanism in Thessaloniki
- May 26-June 24
- ME306 Mechanism, PS224 Astronomy, PS302/SS302 Evolution of Scientific Thought, HU199 Intro to the Ancient World: Classical Athens

Canary Islands, Spain

- May 24-June 22
- BA399/699 Be the Change: Developing the Leader in You, EC299*/399 Essentials of Economics, HU399 Spanish Art and Literature
  *Can be substituted for EC200 or EC211

ATM

- Germany, France, Netherlands & Belgium
- May 24 - June 11
- AT399 Air Traffic Management Study Abroad, AT 499 Air Traffic Management Study Abroad

http://daytonabeach.erau.edu/degrees/study-abroad/

European Aviation Appreciation

- Germany, France, UK
- May 28 -June 18
- AS384, PLUS a course of your choice in Summer B @ ½ off tuition

Munich, Germany

- May 13- June 17
- AE313 Space Mechanics, SS399 Language and Culture in Germany

Siena, Italy

- May 22-June 20
- HU199 Reading the City: History of Siena, SS199 The Italian Mind

SSIA Israel

- May 28-June 11
- HS 399 Topics in Homeland Security, SS325 International Studies

Severe Weather Forecasting (Domestic Away)

- 4 weeks @ ERAU-DB; 2 weeks in field in Great Plains
- May 11- June 8
- WX395L Severe Weather Field Forecasting

UAS Disaster Relief (Domestic Away)

- 1 week @ ERAU DB Lab; 11 days on the road in Oklahoma
- May 8- May 28
- AS 395XX

EE I Berlin, Germany

- May 12-June 12
- EE 327 (2 CR), EE328 Lab (1 CR), Approved Tech Elective EE 308 (3 CR) Must see Prof Demirkiran for Tech Elective Approval

Brazil

- May 15- June 9
- AS 309 Aerodynamics, RS399 Exploring Brazilian Culture

Perugia, Italy (Umbria)

- May 20- June 24
- SS 325 International Studies: War & Peace in Italy, HS 399 Topics in Homeland Security

Scandinavia & Russia (Presented by World Wide)

- Finland, Norway, Sweden, and visit St. Petersburg
- May 29- June 15
- HU 399 **(WW: HUMN 330)** Values and Ethics, EC 399 **(WW: ECON 411)** International Economics

Summer B 2017

The Great British Tour

- July 1- 31
- BA399(sub for BA 313) Special Topics in Management/Regional Studies in Accounting and Auditing, BA 699 Special Topics in Accounting, BA 201 Principals of Management, BA399(sub for BA335) Global Business/International Business

Greece –Aegean Airlines

- Sail Greek Islands, Hike through Mountains, Mini- Internship with Aegean Airlines in Athens
- July 3-31
- BA 215 Transportation Principles, BA399/699 Airline Marketing and Management, COM 219 Speech, AS402 Airline Operations, AS 472 Operational Applications in Aeronautical Science, SF345/395

Austria - Autonomous Vehicles and Avionics

- July 3 - 31
- EE/ME 311, CEC 300

Spain - Aviation Law and Legislation

- July 1- August 1
- AS254 Aviation Legislation, AS405 Aviation Law, AS 412 Corporate & Business Aviation

UAS Aerosonde (Domestic Away)

- July 5-23
- AS 395BB Aerosonde Study Away
- **Must be a UAS major/minor degree and US citizen

Dubai, UAE – Arabic Study Abroad

- July 1 – August 1
- LAR 199 Elementary Arabic, HU 399 Arab Culture, HU 399 Arab Americans

EE II

- Berlin, Germany
- July 1 -30
- ES405 EEII (Register as EE308), AE/ME Approved 3CR Tech Elective **pre-requisites waived**

AE Summer in Moscow

- July 10 – August 7
- AE301 Aerodynamics, EC299 Economic Studies
- OPTIONAL AE 399/699 Special Topics in Aerospace Engineering

Semester or Yearlong Program

Is three-four weeks not long enough for you? If this is the case, a semester or yearlong program is right for you. In these programs, you will truly **LIVE** the culture. You get to choose the university that suits you (*out of our partners),* 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. This is the true, full-blown study abroad experience. We haven't met any of our students who didn't say it was the best experience of their life.

- This will be an experience like no other!!
- Just pay ERAU tuition: Includes all financial aid
- Learn in English, or fully immerse in the language
- Take courses that apply toward your degree
- All approved courses transfer as Pass/No Pass
- Visit us to find programs that meet your goals
- Live another culture and make lifelong friendships
- **Travel the world!**

Engineering Abroad - We have 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. Most of the partner universities offer their courses in English or in their native language if the student prefers.

Bi-Lateral – Calling all majors offered at Embry-Riddle! Choose one of our amazing partner's university listed under our Bi-Lateral programs. Live and learn in countries around Europe, Asia, Australia, New Zealand, and MORE! Take classes that go towards your degree while experiencing a country's new and exciting culture.

Travelers Club - Wait! Want to get a taste of other cultures before you even leave the country? The Travelers Club 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.

Spring Programs

Embry-Riddle professors host programs that offered during spring break, similar to the summer programs, offering unique experiences to students who choose to travel with ERAU during their spring break. These programs have enabled students to research unique topics in different countries as well as fulfilling academic requirements. The Office of Global Engagement partners with IGNITE undergraduate research in order to facilitate a rare learning experience, different from the opportunities offered from summer programs.

Spring 2017 Programs

New Orleans, LA

- March 13-17
- HU 145 Rhythm and Prose: American Music Literature
- Lead by: Professor Jessica McKee

Mojave, CA

- March 11-18
- SP 395 Space Industry Field Operations
- Lead by: Professor Justin Karl

AS Montreal, Canada

- March 12-17
- Enjoy bustling city of Montreal while visiting and learning about various aviation industry and businesses assets
- Lead by: Professor Cass Howell

IGNITE Cuba

- Conduct undergraduate research and explore the cultures of Cuba
- March 11-19
- Lead by: Professors Lewis and George

For more information on financial aid to support your studies abroad during a spring, summer, semester or yearlong program, please contact the Financial Aid office.

For more information, please contact: Office of Global Engagement
Building 273 "The Hub", Suite 200
Email: goglobal@erau.edu
Phone: 386-226-6215

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. Course substitution for technical credit
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 for the spring or fall semester and 13 weeks 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 are applied to required elective credits in student's major with approval of the department. COE convertsStudents 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 EXPLIANED

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. **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 31st 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
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
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 495T – Finite Element Modeling of Aerospace Structures
Applications, limitations, rules, and procedures for modeling aerospace structures using commercial 3-D Graphic and Finite Element Analysis software are addressed. Concentrated, distributed, and inertial loads are applied to representative aerospace structures. A pressurized aft-=fuselage and empennage sub-assembly is modeled using shear panel, rod, beam, shell, solid, rigid, spring, and mass elements. Detailed analyses of machined fittings and connection of the empennage structures with the aft-fuselage structure are included.

AS 295C- UAS Applications in Aerial Photography
This course will familiarize the student with guidelines, regulatory standards, and practical operational considerations for aerial photography and videography techniques specific to the use of Unmanned Aircraft Systems (UAS). Current procedures and relevant practical application methods will provide a basis for commercial applications that leverage future UAS technologies.

AS 295K- Digital Circuit Design for UAS Operational Applications
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
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 enrolled in the Bachelor of Science in Unmanned Aircraft Systems Science Degree Program.

Experimental and Honors Course Descriptions

AS 395O- Unmanned Aerial Systems Law
This course will introduce students to the evolving area of UAS law. Students will assess how federal, state, and local governments regulate UAS activity. Students will analyze the following areas of law: administrative law, constitutional law, contract law, criminal law, product liability law, property law and tort law. The course will examine the FAA rulemaking and enforcement process and how it is applied to UAS operations. Research skills will be utilized to examine the impact of legal doctrines on UAS operations. Throughout the course, students will have the opportunity to investigate the legal issues that different types of operators (e.g., law enforcement, media, and agriculture) must contend with to fly UAS.

CIV 395O – Traffic Data Collection Methods and Computer Applications in Traffic Engineering
Basic methods in collecting and analyzing traffic data used in traffic engineering. Application of computer analysis tools for planning, design, and evaluation of transportation systems. Emphasis on analyzing the operation and safety performance of the transportation networks including freeways, highway corridors, and intersections.

CIV 395R – Air Pollution and Control
Types and sources of outdoor and indoor air pollutants from stationary and mobile sources. Properties of gases and particulate pollutants; measurement and monitoring of pollutants; air quality modeling. Engineering technologies for air pollution control for nitrogen and sulfur oxides, ozone, VOCs, odors, and CO2.

CIV 595 - Intelligent Transportation Systems
Fundamental of traffic engineering. Concepts, architectures, and infrastructure of Intelligent Transportation Systems (ITS). Application of ITS in transportation operation and management in routing, network control, communication, and surveillance. Emphasis on the advanced technologies to automate transportation systems to improve safety, efficiency, and effectiveness of the network. Integrating multidisciplinary methods with modern technologies.

COM 395EHYB- Social Media Communication
Practice in managing effective social media content for specific target audiences in a professional capacity. Explore the relationship among audience, purpose, and content using social media formats. Develop criteria for evaluating each form of content, find examples, assess effectiveness, and practice professional social media skills.

EGR 195A - Spatial Visualization
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.

FIN 695A- Topics in Aircraft Finance
The course provides an in depth review of aircraft selection strategies, the legal and regulatory framework surrounding aviation, aircraft funding sources and risk management. Specific topics include: airline credit risk assessment; fleet financing tools (commercial loans, operating and financial leases, tax leases, export credit, securitization, etc.); aircraft valuation, the asset risk, and residual value guaranties; state of the financing market and availability of financing tools; leasing companies (market dynamics, size and depth of market); banking market (major players in aircraft financing, market evolution); legal environment and tax considerations (repossession, bankruptcy law, and jurisdictional tax impact); structure of a lease document; structure of a loan facility document; and risk management

and insurance in airlines (what risks are covered, insurance markets, and jurisdictional considerations).

HFS 595I- Human Factors in Automation
A comprehensive examination of the human factors elements of Automation. Historical overview of automated systems, human-automation interaction, human-machine interfaces, vehicle design considerations, psychology of the human operators, crews and teams, as related to current and future issues in automated transportation and industry.

HFS 595K- Human Factors in Entertainment Systems
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.

HFS 695D- Stress and Adaptation
Theories, methods and applications of stress and adaptation research. Provides an understanding of the conceptual and methodological definitions of stress and coping. Delineates the physiological and psychological responses to stress in humans. Examines the moderators and effectiveness of the stress and coping process. Each student develops an expanded knowledge of an area within stress and coping, including but not limited to clinical, health, industrial/organizational, developmental and/or neuroscience areas, as well as applications to the fields of medicine, public health, and nursing. The course is presented in seminar format.

HS 395B- Maritime Security
The primary focus of this course is on the broad aspects of maritime security, including seaports, maritime transportation, regulations, piracy, drug trafficking, terrorism, and threat mitigation strategies. The course will also examine maritime security in various “hot” spots and commercial straits and chokepoints around the world, including the South China Sea, the Caribbean, the Persian Gulf, and the Black and Baltic Seas. The goal of this course is to introduce the student to ocean and port vulnerabilities and how to counter these potential threats in the larger homeland security context

HU 395I- Contemporary Texts
Survey a variety of post-1945 texts, ranging from graphic literature to popular media such as television, music, and blogs. Examine fundamental literary elements and historical, social, cultural, intellectual, political, and economic influences.

HU 395O- Arab Culture
The cultural components of the Arab world. Literature; Media; Film; Religion; Music; Architecture.

MA 395B- Mathematical Modeling & Simulation I
A blended cyber-learning course in computational mathematics. Topics include matrix operations, linear and nonlinear optimization and interdisciplinary problems whose solutions heavily depend on mathematical modeling and simulation. Students meet teachers twice per week in virtual classes in problem help sessions and gain hands-on experience on how to use software tools such as MATLAB, Stella, Agentsheets, etc. to model and simulate team projects.

Experimental and Honors Course Descriptions

MA 595L- Numerical Solutions of Differential Equations
This course is an introduction to numerical techniques for solving differential equations. Topics covered will include numerical solution of ordinary and partial differential equations (both initial value and

boundary value problems). Runge-Kutta and multistep methods are examined for initial value problems, as well as finite difference methods for elliptic, parabolic, and hyperbolic partial differential equations. Emphasis is placed on efficient computational procedures including the use of library and student-written procedures using high-level software such as MATLAB. (This course is also offered as MA 448 at the Undergraduate level. Students receive undergraduate or graduate credit, but not both. Graduate students are assigned additional or more challenging work and test problems.)
Prerequisite: MA 345 and some programming experience

ME 395A- Junior Design for HPV
Introduction to the fundamentals of vehicle systems and their relationship to the vehicle design process in preparation for capstone design projects. Approaches vehicle design from a systems perspective; powertrain modeling and simulation; powertrain control strategies and architectures; vehicle electrical systems; automotive ECUs and communications; automotive design standards and analysis. Includes one or more small design projects in conjunction with the capstone design courses.

ME 595Z – A Primer for Finite Elements with ANSYS
This course introduces the Finite Elements Method in Elastic Structures detailing its supportive theory and its mathematical and structural underpinnings. Key mathematical concepts to pertinent concepts from mechanics and structural theory are covered to promote better understanding of the fundamentals of Finite Elements Method. Both MATLAB and ANSYS will be introduced and utilized to demonstrate the use of the computer platforms in the contemporary workplace in analyzing elastic structures effectively and efficiently. Students taking this course are expected to have background in mechanics of materials, machine design or structural analysis.

MSA 595M- Leading and Learning in Aviation Environments
This course is designed to assist students in developing contexts and concepts in which learning and leading intersect and the impacts of these intersections on learner outcomes and instructional planning, particularly in aviation environments. Students will explore pertinent historical, societal, philosophical, and psychological factors that guide instruction and learning through the lens of leadership theory.

SF 495C- Digital Safety Data Analysis
This course examines techniques for analyzing various types of digital data, such as FOQA, in furtherance of accident prevention. Safety management systems are amplified to include modern safety programs and their use of digital and other forms of recorded and live data. Accordingly, this course reviews the development of digital data technology in aviation and other industries, its historical use for accident investigation, the proactive use of digital data to identify and address operational risks before they can lead to incidents/accidents, and the potential use for predictive safety. Students will acquire an understanding of potential digital data sources and how it is retrieved, analyzed. They will develop recommendations for interventions based on their analyses of the data.

Experimental and Honors Course Descriptions

HON 250 01 – Honors Seminar II: "The Ancient Silk Road and the 'New Silk Road''

Building the Great Wall, the emergence of oasis culture around the treacherous Taklamakan desert, the spread of Buddhism and cave temple networks, … tales of the *Arabian Nights* and the great feats of Genghis and Kubilai Khan, the legendary travels of Marco Polo --- the development of the cultural and economic exchange network that became known as the Silk Road is filled with mystery, allure, legends, and feats of heroism. The "New Silk Road" refers to contemporary China's ambitions to develop a vast economic network along the axis of the ancient Silk Road, from eastern China across central Eurasia and the Middle East to the heart of Europe. As with the perils faced by ancient travelers and merchants on the Silk Road, development of the New Silk Road faces many formidable obstacles. Students will utilize source material from history, contemporary socio-politics, literature, art, music, and film to gain an appreciation of the new against the backdrop of the old.

HON 250 02 – Honors Seminar II: "Cold War Culture: From Tupperware to the Bomb"

The Cold War was a tumultuous time of paradoxes: peace was maintained with threats of nuclear annihilation and Americans promoting freedom were often severely censored. While the fear of the Cold War has somewhat subsided, the products created during this time linger. In this Honors seminar, students will explore how the years just after the WWII have defined American culture. We will learn that many Americans experienced the mixed blessing of material abundance and, for the first time, actively participated in consumer culture. Then we will examine the artifacts from this consumer culture, including Tupperware, the bikini, fallout shelters, spy novels, invasion films, *The Watchmen*, and the doomsday clock. We will catalog these artifacts in order to gain an understanding of aspects of contemporary culture. For instance, to appreciate American's obsession with mobility, we will read Cold War directives to move out of urban centers, review highway expansions and suburban development, and then analyze road-trip artifacts like Jack Kerouac's *On the Road* and Dennis Hopper's *Easy Rider*. The primary objectives of this course are twofold: to critically analyze Cold War artifacts as items that shape – and are shaped by – the schisms of American society, and to locate the origins of cultural patterns that persist in our own time. After discovering how the Cold War continues to influence contemporary culture, students will conduct an in-depth analysis of one specific Cold War artifact. Students will utilize source material from history, literature, film, and music to gain an appreciation of Cold War culture.

HON 250 03 – Honors Seminar II: "Authentic Leadership – Discover Your True North"

Unlike traditional top-down leadership approaches, authentic leadership is defined by developing honest relationships with followers built on trust and care. Characteristics of authentic leaders include an understanding of their purpose, practice of solid values and integrity, leading with heart, and demonstrating self-discipline. Authentic leaders are also mindful leaders who lead from the *inside out*. They cultivate focus, clarity, creativity, self-awareness and compassion. They lead with authenticity in a way that inspires others. This course will train your leadership skills while covering a broad range of topics associated with effective leadership including communication, decision-making, vision, group development, values, ethics, diversity, and managing change. Participants will develop their leadership skills via experiential exercises, mindfulness practices, self-reflective and introspective activities and individual and team projects.

HON 250 04 – Honors Seminar II: "Origins of the Conscious Mind"

This course is an in-depth study of the physiological and psychological phenomena of consciousness. We share the majority of our genome with other primates and yet, we are vastly different from

them because of human consciousness. We will examine how information gets into the brain, is stored in the brain, and is retrieved and processed for appropriate behavioral responses. There is no more fantastic or complicated development in nature than the human brain. Although we impact everything on the earth and are now reaching into the cosmos, humans are still just an experiment of nature with the likelihood of extinction looming in our future, also because of our brain. No less than the very survival of humanity depends on how much we know about ourselves and our capabilities. What we know about the brain determines who we educate, medicate and incarcerate. This course will give the student the background to understand what is known about the brain and how a collection of specialized proteins can interact with and change the world in very dramatic ways.

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Code: **S** = Spring 2017 **A** = Summer A 2017 **B** = Summer B 2017 **F** = Fall 2017 ***** May be offered either A or B **?** Course may be offered

	S	A	B	F
AE 301	X	?		X
AE 302	X		?	X
AE 313	X	?		X
AE 314	X	?		X
AE 315	X	?		X
AE 316	X	?		X
AE 318	X	?		X
AE 350	?			?
AE 408	X	?		X
AE 409	?			X
AE 413	X		?	X
AE 415	X			?
AE 416	X			X
AE 417	X			X
AE 418	X		?	X
AE 420	X			X
AE 421	X			X
AE 426	X		?	X
AE 427	X			X
AE 432	X		?	X
AE 434	X		?	X
AE 435	X			X
AE 440	X			X
AE 445	X			X
AE 502	?			X
AE 504	?			X
AE 505	X			?
AE 506	X			?
AE 510	X			?
AE514	?			X
AE516	X			?
AE521	X			?
AE522	X			?
AE526	?			X
AE527	X			?
AE528	?			X
AE534	?			X
AE536	?			X
AE 540	X			?
AE 542	X			?
AE 548	X			?
AE 610	?			X
AE 616	?			X
AE625	X			?
AE626	?			X
AE633	?			X
AE 646	X			?
AMS 115	X	X		X
AMS 116	X		X	X
AMS 117	X	X		X
AMS 118	X		X	X

	S	A	B		F
AMS 261	X	X			X
AMS 262	X	X			X
AMS 263	X		X		X
AMS 264	X		X		X
AMS 271	X		X		X
AMS 272	X		X		X
AMS 273	X		X		X
AMS 274	X		X		X
AMS 365	X	X			X
AMS 366	X	X			X
AMS 375	X	X			X
AMS 376	X	X			X
AMS 380	X	X			X
AMS 384	X	X			X
AMS 388	X		X		X
AMSA 490	X				X
AS 120	X				X
AS 121	X	X	X		X
AS 220	X	X	?		X
AS 220L	X	X	?	X	X
AS 221	X	X	X		X
AS 235	X	X	X		X
AS 235L	X	X	X		X
AS 254	X	?	?		X
AS 309	X	X	X		X
AS 310	X	X	X		X
AS 311	X	?	?		X
AS 312					
AS 315	X	?	?		X
AS 321	X	X	X		X
AS 340	X	X			X
AS 350	X	?	X		X
AS 356	X	?	?		X
AS 357	X	X	?		X
AS 380	X	X	X		X
AS 387	X	X	X		X
AS 402	X	X			X
AS 403	X	X			X
AS 403L	X	X			X
AS 405	X	?			X
AS 408	X	X			X
AS 410	X		X		X
AS 411	X	X			X
AS 412	X				X
AS 414	X				
AS 420	X	X	X		X
AS 435	X	X	X		X
AS 472	X	X	X		X
AS 473	X				X
AS 474	X				X
ASC 101	X	X	X		X

	S	A	B		F
			X		
AEL 311			X		X
AEL 312		X			X
AEL 313		X			X
AEL 401	X	XX			
AEL 402	X	X			
AEL 403	X				
AEL 404	X				
			X		
AT 202	X	?	X?		X
AT 305	X	?	?		X
AT 315	X	?	?		X
AT 401	X	?	?		X
AT 405	X	?	?		X
AT 406	X	?	?		X
AVT 301	X				X
AVT 303					X
AVT 305	X				X
AVT 320					X
AVT 325	X				
AVT 401	X				X
AVT 402	X				X
AVT 403	X				X
BA 101	X				X
BA 120	X	*	*		X
BA 201	X	*	*		X
BA 210	X	*	*		X
BA 215	X	*	*	?	X
BA 220	X	*	*		X
BA 221	X	*	*		X
BA 225	X	*	*		X
BA 310	X	*	*		X
BA 312	X	*	*		X
BA 314	X	*	*		X
BA 315	X	*	*		X
BA 317	X	*	*		X
BA 318					X
BA 320	X	*	*	?	X
BA 322	X	*			X
BA 324	X				X
BA 325	X				X
BA 326	X				
BA 327	X			X	X
BA 330	X	*			X
BA 332	X	*	*		X
BA 334	X				
BA 336	X				
BA 335	X	*	*		X
BA 340	X				
BA 345					X

	S	A	B	F
BA 395D				X
BA 395E	X	*		X
BA 395F	X			X
BA 405	X			X
BA 410	X			X
BA 411	X			
BA 412	X			
BA 418	?			?
BA 419	X			
BA 420	X	*	*	X
BA 422	?			
BA 424	X			
BA 426				X
BA 427	X			X
BA 430	?			
BA 434	?			
BA 436	X			X
BA 450				?
BA 511	X	?		X
BA 514	X		?	X
BA 517	X			X
BA 518	X			X
BA 520	X	?		X
BA 521	X			X
BA 522	X			X
BA 523	X	?		X
BA 603				
BA 604				
BA 607				?
BA 609				?
BA 610				
BA 615			?	
BA 616		?		
BA 618	?		X	
BA 620				
BA 625				
BA 630				
BA 632				
BA 635	X			X
BA 645				?
BA 646	?			
BA 650	?			
BA 651				?
BA 655	?			
CEC 220	X			X
CEC 222	X			X
CEC300	X			
CEC 315	X			
CEC 320	X			?
CEC 322	X			?
CEC330				X

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	S	A	B	F
CEC335	?			?
CEC410				X
CEC411				X
CEC 420				X
CEC 421	X			
CEC 440	?			?
CEC 450	X			
CEC 460				X
CEC 470				X
CEC 500	X			
CEC 510				X
CEC 600	?			?
CIV 140				X
CIV 222	X			
CIV 304				X
CIV 307				X
CIV 311				X
CIV 316				X
CIV 320	X			
CIV 340	?			?
CIV 362	?			?
CIV 370	?			
CIV 421				X
CIV 422				?
CIV 424				?
CIV 431	?			?
CIV 432	?			?
CIV 441	?			
CIV 447	X			
CIV 457				?
CIV 470				X
CIV 480	X			
CIV 490	X			
COM 008	X			X
COM 018	X			X
COM 020	X		X	X
COM 122	X	X	X	X
COM 122I	X			X
COM 219	X	X	X	X
COM 221	X	X	X	X
COM 222	X			X
COM 225				X
COM 230	X	X		X
COM 260				X
COM 265				X
COM 320	X			
COM 322				
COM 350				
COM 360				X
COM 364				X

	S	A	B		F
COM 410					
COM 411	X				
COM 415	X				X
COM 460					
CS 118	X				X
CS 120	X	X	X		X
CS 222	X				X
CS 223	X				X
CS 225	X	X			X
CS 303	?				?
CS 315					X
CS 317	X				
CS 332					X
CS 335	?				?
CS 344	X				?
CS 350	?				?
CS 420					X
CS 490					X
CS 491	X				
EC 200	X	*	*		X
EC 210	X	*	*		X
EC 211	X	*	*		X
EC 225	X	*	*		X
EC 315	X	*	*	X	X
EC 420	X	*	*	X	X
EE 223	X				
EE 224	X				
EE 300					X
EE 301					X
EE 302					X
EE 303	?				?
EE 304					X
EE 307	X				
EE 308					X
EE 310					X
EE 335	X	X	X		X
EE 336	X	X	X		X
EE 340	X				?
EE 401	X				X
EE 402	X				X
EE 417	X				
EE 420					X
EE 421	X				
EE 430					X
EE 430L					X
EE 500					X
EE 510					X
EE 515					X
EE 525					X

	S	A	B		F
EE 620	X				
EE 625	?				?
EGR 101	X				X
EGR 111	X				
EGR 115	X	*	*		X
EGR 120	X	*	*		X
EGR 305	X	*			X
EGR 495	X				
EL 107	X		X	X	
EL 108	X		X	X	
EL 203					X
EL 204					X
EL 212					X
EL 213					X
EL 301	X				
EL 302	X				
EL 303	X				
EL 304	X				
EL 307	X				
EL 308	X				
EP 320	X				
EP 391	?				X
EP 393					X
EP 394	X				
EP 395	X				X
EP 400					
EP 410	X				?
EP 420					
EP 425	X	?			
EP 440	?				X
EP 455	X			X	?
EP 496					X
EP 497	X				
ES 201	X	*	*		X
ES 202	X	*	*	*	X
ES 204	X	*	*	*	X
ES 206	X	*	*	*	X
ES 305	X	*	*		X
ES 320	X	*	*		X
ES 321	X	*	*		X
ES 403	X				X
ES 405	X	*	*		X
FA 121	X	X	X		X
FA 122	X	X	X		X
FA 122L	X	X	X		X
FA 215	X	X	X		X
FA 221	X	X	X		X

	S	A	B		F
FA 222	X	X	X		X
FA 321	X	X	X	X	X
FA 322	X	X	X		X
FA 323	X	X	X		X
FA 323L	X	X	X		X
FA 324	X	X	X		X
FA 326	X	X	X		X
FA 370	X	X	X		X
FA 417	X	X	X		X
FA 417L	X	X	X		X
FA 420	X	X	X		X
FA 460	X	X	X		X
HF 300	X	X			X
HF 302	X				
HF 305					X
HF 310					X
HF 312	X				
HF 315	?	?			?
HF 321	?	?			?
HF 326	?	?			?
HF 335	X				X
HF 340	?	?			?
HF 400	X				
HF 410	?	?			?
HF 412	?	?	?		?
HF 415	?	?			?
HF 422	?	?	?		?
HF 490	X	X	X		X
HS 110	X		*		X
HS 155	X		*		X
HS 215	X		*		X
HS 235					X
HS 280	X				X
HS 310	X		*		X
HS 315	X		*		X
HS 320	X		*		X
HS 321					X
HS 325	X		*		X
HS 335	X				
HS 350	X		*		X
HS 360	X		*		X
HS 365					X
HS 375	X		*		X
HS 399	X		*		X
HS 405	X		*		X
HS 410	X				X
HS 411	X		*		X
HS 435	X				
HS 450					X
HS 465					X

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	S	A	B	F
HS 480	X			X
HS 490	X			X
HS 491		X	X	
CEHS 396	X	X	X	X
HU 140 series	X	X	X	X
HU 300	X			X
HU 302				
HU 305	X			
HU 310	X			
HU 319				X
HU 325				X
HU 330	X	X		X
HU 335	X			X
HU 338	X			X
HU 341	X		X	X
HU 345	X			X
HU 355				
HU 375				
HU 415	X			X
HU 420				X
HU 475	X			X
IT 210	X			X
IT 220	X			X
IT 310	X			
IT 320	X			X
IT 330				X
IT 340	X			X
LAR 101	X			
LAR 102	X			
LAR 201				X
LRU 195				X
LRU 195X	X			
LRU 295X				X
MA 004	X			X
MA 006	X	X	X	X
MA 111	X	X	X	X
MA 112	X	X	X	X
MA 120	X			X
MA 140	X			X
MA 145			X	X
MA 220	X			X
MA 222	X	X		X
MA 241	X	X	X	X
MA 242	X	X	X	X
MA 243	X	X	X	X
MA 295	X		X	
MA 305	X			X
MA 341	X			

	S	A	B	F
MA 345	X	X	X	X
MA 348	X			X
MA 350	X			
MA 410				X
MA 412	X		X	X
MA 413				X
MA 420	X			
MA 432	X	X		X
MA 438	X			X
MA 441	X	X		X
MA 442	X	X		
MA 443				X
MA 488	X			X
MA 490	X			X
MA 502	X			X
MA 504		X	X	
MA 510	X			
ME 200	X			X
ME 303	X			X
ME 304	X			X
ME 305	X			X
ME 306	X			
ME 307	X			
ME 400	X	X		
ME 401	X			X
ME 402				X
ME 404	X			
ME 405	X			
ME 407				X
ME 408				X
ME 409				X
ME 410	X	X		
ME 411				X
ME 413				X
ME 414				X
ME 419	X			
ME 423	X			
ME 427	X			
ME 428				X
ME 500	X			
ME 503				X
ME 506				X
ME 508	X			
ME 510	X			
ME 700	X	X	X	
MSA 508	X			X
MSA 514				X
MSA 515	X			X
MSA 516	X			X
MSA 518		X		

	S	A	B	F
MSA 519				
MSA 520	X			X
MSA 524		X		
MSA 550			X	
MSA 590	X	X	X	X
MSA 604	X	X		X
MSA 608	X			X
MSA 609			X	X
MSA 610				X
MSA 611	X			X
MSA 612	X	X		X
MSA 613	X			
MSA 614	X			
MSA 616	X			X
MSA 617	X	X	X	X
MSA 618	X	X	X	X
MSA 620	X			X
MSA 622	X			
MSA 627			X	
MSA 636	X			
MSA 641				X
MSA 644			X	
MSA 654	X			
MSA 661		X		
MSA 662		X		
MSA 670			X	
MSA 672			X	
MSA 674			X	
MSA 691			X	
MSA 696	X	X	X	X
MSA 699	X	X	X	X
MSA 700	X	X	X	X
MET 200	X			?
MSE 500	X			X
MSE 510				X
MSE 530	X			
MSE 540				?
MSE 555	X			
MSE 610				X
NSC 100	X			X
NSC 101				X
NSC 102	X			
NSC 201		X		X
NSC 202	X			
NSC 202L	X			
NSC 301				X
NSC 302	X			
NSC 310				X
NSC 311				X

	S	A	B	F
NSC 401				X
NSC 401L				X
NSC 402	X			
NSC PT	X			X
PS 101	X	*	*	X
PS 101L	X	*	*	X
PS 102				
PS 103	X	X	X	X
PS 103L	X	X	X	X
PS 104	X	X	X	X
PS 104L	X	X	X	X
PS 105	X	*	*	X
PS 105L	X	*	*	X
PS 107	?			?
PS 108				
PS 109				X
PS 140				X
PS 141	X	*	*	X
PS 142	?			?
PS 150	X	X	X	X
PS 160	X	X	X	X
PS 208	X			X
PS 215	X			X
PS 216	X			X
PS 219	X			X
PS 220	X			X
PS 250	X	*	*	X
PS 253	X	*	*	X
PS 290	X	*	*	X
PS 301	?	*	*	X
PS 302				
PS 303	?			X
PS 304				
PS 305	X			X
PS 308				
PS 309	?			?
PS 309L	?			?
PS 320	X			
PS 401				
PSY 101	X	*	*	X
PSY 310				X
PSY 312				X
PSY 315	X			X
PSY 320	?		?	?
PSY 322	X			X
PSY 335	X			X
PSY 340	?		?	?
PSY 345	?		?	?
PSY 350	X		?	X
PSY 400				?

This schedule is for planning purposes only. Course numbers change from time to time, and the University reserves the right to make changes as necessary.

Code: **S** = Spring 2017 **A** = Summer A 2017 **B** = Summer B 2017 **F** = Fall 2017 ***** May be offered either A or B **?** Course may be offered

	S	A	B	F
SE 300	X			X
SE 310	X			*
SE 320	X			
SE 410	X			
SE 420	X			
SE 450				X
SE 451	X			
SE 500				X
SE 505				X
SE 510	X			
SE 530				X
SE 535	?			?
SE 550	?			?
SE 555				X
SE 575	?			?
SE 590	?			?
SE 610				X
SE 625	X			
SE 655	X			
SE 697				X
SF 201	X	X		X
SF 210	X		X	X
SF 315				X
SF 320	X	X		X
SF 330	X			X
SF 335				X
SF 345	X		X	X
SF 350	X			X
SF 355	X			X
SF 365	X			
SF 375				X
SF 410				X
SF 435				X
SF 445	X			
SF 462	X		X	X
SF 470	X			
SIM 200	X			X
SP 110	X			X
SP 200		X		
SP 210				
SP 215				X
SP 300	X			
SP 425	X			
SP 395				X
SS 110	X	X		X
SS 120	X		X	X
SS 130		X		

	S	A	B	F
SS 302				
SS 311				X
SS 321	X			
SS 325	X	X	X	X
SS 326	X			
SS 331				
SS 333				X
SS 334				X
SS 336	X			
SS 337	X			X
SS 340	X		X	X
SS 353	X			
SS 363	X			
SYS 301				X
SYS 303	X			X
SYS 304				X
SYS 415	X			
SYS 417				X
SYS 418				X
SYS 500	X			
SYS 505	X			
SYS 525	X			X
WX 101				X
WX 201	X	X	X	X
WX 210				X
WX 215	X			
WX 261	X	?	?	X
WX 270	X			X
WX 280		?	?	
WX 301	X	X	X	X
WX 310	X			
WX 327				X
WX 331				X
WX 332	X			
WX 344	X			
WX 361				X
WX 363	X	?	?	X
WX 365	X	?	?	X
WX 367	X			
WX 368				X
WX 374				X
WX 375	X			
WX 378	X			
WX 380				X
WX 381	X			
WX 410	X	?	?	X
WX 422				X
WX 436	X			
WX 442	X			
WX 462		X		X

	S	A	B	F	S	A	B	F
WX 466				X				
WX 475	X							
WX 478	X							
WX 482	X							

COLLEGE OF AVIATION

Dean – Dr. Alan Stolzer	COA 102C	226-7352
Associate Dean – Dr. Tony Cortés	COA 102B	226-7560
Aeronautical Science (AS, ASC, SIM, UAS)		
Department Chair– Dr. Mike Wiggins	COA 218	226-7030
Program Coordinator AS – Dr. Mike Coman	COA 244	226-6006
Program Coordinator Aeronautics – Janet Marnane	COA 247	226-6452
Program Coordinator UAS- John Robbins	COA 249	226-7053
Aviation Maintenance Science (AMS)		
Department Chair- Charles Horning	EBM 216	226-7693
Program Coordinator- Isaac Martinez	EBM 219	226-6788
Applied Aviation Sciences (WX, AT, AOS, SP, CSO)		
Department Chair – Sid McGuirk	COA 318	226-7125
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 CSO - Dr. Justin Karl	COA 315	226-3731
Flight Department (FA)		
Department Chair/Assistant Dean – Dr. Ken Byrnes	COA 117	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. Mark Friend	COA 137J	226-7747
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
Engineering Fundamentals (EGR)		
Department Chair – Dr. Heidi Steinhauer	LB 124	226-6978
Program Coordinator – Lisa Davids	LB 123	226-7057
Aerospace Engineering (AE, ES)		
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 245	323-8811
PhD in Aerospace Engineering-PhD-AE		
Program Coordinator-Dr. Anastasios Lyrintzis	LB 206	226-7286
Mechanical Engineering (ME, ES)		
Department Chair – Dr. Charles Reinholtz	LB 145	323-8848
Associate Chair- Dr. Eduardo Divo	LB 159	226-7987
Program Coordinator ME- Dr. Fady Barsoum	LB 146	226-6618
Program Coordinator MSME- Dr. Jean-Michel Dhainaut	LB 154	226-7717
PhD in Mechanical Engineering-PhD-ME		
Associate Chair/Program Coordinator-Dr. Eduardo Divo	LB 159	226-7987
Civil Engineering (CIV)		
Department Chair/Program Coordinator CIV – Dr. Ashok Gurjar	LB 324	226-7728
Program Coordinator MSCIV- Dr. Ashok Gurjar	LB 324	226-7728
Electrical, Computer, Software, & Systems Engineering (EE, CEC, CS, SE, SYS)		
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
PhD in Electrical Engineering & Computer Science-PhD-EECS		
Program Coordinator- Dr. Remzi Seker	LB 353	226-7409

COLLEGE OF BUSINESS

Dean – Dr. Mike Williams	COB 270A	226-6777
Associate Dean - Dr. Massoud Bazargan	COB 282	226-6705
Business Administration (BA, EC, FIN)		
Economics, Finance, & Information Systems		
Department Chair – Dr. Bert Zarb	COB 254	226-7942
UG Program Coordinator –Dr. Jennifer Hinebaugh	COB 285	226-6564
Program Coordinator MSAF- Dr. Sunder Raghavan	COB 286	226-6246
Management, Marketing, & Operations		
Department Chair – Dr. Dawna Rhoades	COB 231	226-7756
Program Coordinator MBA/MBAM- Dr. Anke Arnaud	COB 283	226-4962
PhD for Aviation Business Administration- Dr. Massoud Bazargan	COB 282	226-6705

COLLEGE OF ARTS AND SCIENCES

Dean – Dr. Karen Gaines	COAS 421.07	226-7076
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
Human Factors (HF, HFS, PSY)		
Department Chair - Dr. Scott Shappell	COAS 401.06	226-6790
Associate Chair/Program Coordinator HF – Eric Vaden	COAS 401.04	226-7112
Program Coordinator MSHF - Dr. Christina Frederick	COAS 401.08	226-7037
PhD in Human Factors – Dr. Christina Frederick	COAS 401.08	226-7037
Physical Sciences (PS, EP)		
Department Chair-Dr. Terry Oswalt	COAS 319.23	226-7571
Associate Chair- Dr. Mahmut Reyhanoglu	COAS 319.18	226-7753
Engineering Physics/Space Physics		
Program Coordinator EP - Dr. Aroh Barjatya	COAS 315.25	226-6675
Program Coordinator PS - Dr. Bereket Berhane	COAS 319.14	226-7679
Program Coordinator SP – Dr. Katariina Nykyri	COAS 319.11	226-6714
Program Coordinator AA - Dr. Jason Aufdenberg	COAS 319.26	226-7123
MS Engineering Physics – MSEP		
Program Coordinator - Dr. Alan Liu	COAS 319.16	226-6538
PhD in Engineering Physics-PhD-EP		
Program Coordinator- Dr. Alan Liu	COAS 319.16	226-6538
Humanities and Communications (HU, COM, IS)		
Department Chair-Dr. Donna Barbie	COAS 201.17	226-6668
Associate Chair- Dr. Jennifer Wojton	COAS 201.16	226-6629
Interdisciplinary - (IS)		
Program Coordinator – Professor Sarah Fogle	COAS 201.11	226-7168
Communications - (COM)		
Program Coordinator – Professor Steven Master	COAS 201.12	226-6643
Mathematics Department (MA)		
Department Chair- Dr. Nirmal Aggarwal	COAS 301.09	226-6613
Associate Chair – Gerard Lombardo	COAS 301.10	226-6674
Program Coordinator BSCM – Tim Smith	COAS 301.15	226-6720
MA Coordinator - Dr. Jayathi Raghavan	COAS 301.20	226-6217
Security Studies & International Affairs (SSIA)		
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	226-6470
Air Force ROTC (AF) - Col. Kimberley Ramos	ROTC	226-6880
Naval ROTC (NSC) – CAPT Pat Everly	ROTC	323-8990
Honors Program Director-Dr. Geoff Kain, Honors Program Center	Mod 23-100	226-6650
First Year Programs – Executive Director- Rich Nicols	COB 115	226-7073
Embry-Riddle Language Institute- Keith Boswell, Director	Tomcat 30-2 Suite 218	226-7614