University College

University College fosters the growth of interdisciplinary and cross-college academic programs. Its programs are designed to provide intellectual opportunities for students whose interests, aptitudes, and career goals range widely across college boundaries. It is the home of the Interdisciplinary University Studies undergraduate major, the Aviation Department (which offers the BS in Aviation Management, the BS in Professional Flight, and related minors), and the Sustainability, Information and Cyber Analysis, and Leadership minors. The Exploratory Advising Center for incoming freshmen who are in the process of determining the academic major they wish to pursue is also part of University College.

Majors

- Interdisciplinary University Studies (http://bulletin.auburn.edu/undergraduate/universitycollege/interdisciplinarystudies/)

Minors

- Information and Cyber Analysis (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/lbar/informationandcyberanalysis/)
- Leadership (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/lbar/leadership/)
- Sustainability Studies (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/lbar/sustainabilitystudies/)

Individuals applying to Auburn as first-time College students have the option to enroll as Exploratory students, without having to select a particular major or college. Exploratory students are advised by a group of cross-trained advisors and career counselors who provide intensive and personalized advising designed to help them choose the major that most closely meets their academic aptitudes and interests as well as their long-term goals. This option does not replace undeclared major options in Liberal Arts, Sciences and Mathematics, or Engineering. Instead, its goal is to assist students who are uncertain which broad academic area they wish to pursue. All students who enter Auburn University as Exploratory students must select a college or specific major by the end of their second semester. Students who enter Auburn as transfer students are not eligible to enroll as Exploratory.

Interdisciplinary Studies Courses

IDSC 1010/1013 LIFE, CAREER, AND EVERYTHING (3) LEC. 3. This course provides an in-depth exploration of each student's strengths and interests, and includes a series of exercises and experiences designed to guide the student in the selection of a degree path.

IDSC 2000 CONTEMPORARY KOREA (3) LEC. 3. Overview of the human, physical, and technological context of the Republic of South Korea through a combination of lectures, readings, presentations, and discussions, utilizing the expertise of Auburn colleagues across the disciplines.

IDSC 2190/2193 FOUNDATIONS OF INTERDISCIPLINARY UNIVERSITY STUDIES (3) LEC. 3. Provides students with an introduction to (1) the major approaches and applications of interdisciplinary studies, (2) an examination of disciplinary and interdisciplinary thinking; and (3) an introduction to concepts and methods of interdisciplinary study.

IDSC 3210/3213 ADVANCED INTERDISCIPLINARY PROBLEM SOLVING (3) LEC. 2. LAB. 2. Pr. IDSC 1010 and IDSC 2190 or IDSC 2193. This is a synthesis course designed to provide students with practice in applying interdisciplinary methods to the solution of real-world problems and to prepare them to communicate those solutions to a diverse audience.

IDSC 4920 INTERDISCIPLINARY CAPSTONE EXPERIENCE (3) INT. 3. Pr. IDSC 1010 and (IDSC 2190 or IDSC 2193) and (IDSC 3210 or IDSC 3213). Capstone course designed to apply Interdisciplinary Degree Coursework to an internship project. Course may be repeated for a maximum of 6 credit hours.

IDSC 4930 INTERDISCIPLINARY CAPSTONE EXPERIENCE (3) LEC. 2. LAB. 2. Pr. IDSC 1010 and (IDSC 2190 or IDSC 2193) and (IDSC 3210 or IDSC 3213). Capstone course designed to apply Interdisciplinary Degree Coursework to a senior thesis project. Course may be repeated for a maximum of 6 credit hours.

IDSC 5950/5953 GRADUATE FOOD SYSTEMS SEMINAR (1) SEM. 1. This is a required course for graduate students in the Food Systems Graduate Certificate Program. Discussion and presentation of integrated and interdisciplinary food system topics. Course may be repeated for a maximum of 2 credit hours.
IDSC 6950/6956 GRADUATE FOOD SYSTEMS SEMINAR (1) SEM. 1. This is a required course for graduate students in the Food Systems Graduate Certificate Program. Discussion and presentation of integrated and interdisciplinary food system topics. Course may be repeated for a maximum of 2 credit hours.

**Leadership Courses**

**LEAD 2000 FOUNDATIONS OF LEADERSHIP (3) LEC. 2. LAB. 1.** Introductory course for students pursuing the Leadership Minor.

**LEAD 2100 WOMEN AND LEADERSHIP (3) LEC. 3.** An interactive exploration of the social, political, economic, and cultural implications of women's current and historic leadership roles.

**LEAD 4000 LEADERSHIP IN PRACTICE (3) LEC. 3. Pr. LEAD 2000.** Capstone course in interdisciplinary leadership minor.

**Sustainability Studies Courses**

**SUST 2000 INTRODUCTION TO SUSTAINABILITY (3) LEC. 3.** Introduction to the interdisciplinary study of sustainability. May count either SUST 2000 or HONR 1027/HONR 1037.

**SUST 4900 DIRECTED STUDIES IN SUSTAINABILITY (1-3) IND.** Departmental approval. Advanced individual research and/or coursework in the field of sustainability studies. Course may be repeated for a maximum of 3 credit hours.

**SUST 5000 SENIOR CAPSTONE IN SUSTAINABILITY (3) LEC. 3. Pr. SUST 2000.** Capstone research seminar for students completing the Minor in Sustainability Studies.

**Aviation Management Courses**

**AVMG 1013/1010 INTRODUCTION TO AVIATION (3) LEC. 3.** Orientation to aviation management career opportunities. The history of significant events and accomplishments in the attempt to move through the air and space.

**AVMG 2053/2050 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS (UAS) (3) LEC. 3.** Orientation to unmanned aircraft systems with emphasis on pilot and operating rules, National Airspace System (NAS) integration, safety, and commercial uses of Small UAS (sUAS).

**AVMG 2603/2600 HUMAN FACTORS IN AVIATION (3) LEC. 3.** Principles of human cognitive and physical performance, and man/machine interface and design, in aviation. Study of information processing, workload management, situational awareness, and decision-making.

**AVMG 3053/3050 AVIATION WEATHER (3) LEC. 3. Pr. AVMG 1010.** Meteorology as it applies to the operation of aircraft with emphasis on observation of weather elements and interpretation of flight planning weather information.

**AVMG 3143/3140 AIR TRANSPORT INDUSTRY DEVELOPMENT (3) LEC. 3. Pr. AVMG 1010.** Principles and analysis of air transport industry development, its regulatory environment, and associated certification processes.

**AVMG 3203/3200 APPLIED ANALYSIS IN AIR TRANSPORTATION (3) LEC. 3. Pr. AVMG 1010 and ECON 2020.** Junior standing. Development of principles required in economic analysis.

**AVMG 3603/3600 AIRCRAFT MAINTENANCE MANAGEMENT (3) LEC. 3. Pr. AVMG 1010.** Junior Standing or Departmental Approval. Aircraft maintenance program fundamentals, procedures, and practices, with an emphasis on regulatory requirements.

**AVMG 3813/3810 PROFESSIONAL DEVELOPMENT IN AVIATION (1) LEC. 1.** AVMN and AVPF majors only. Career planning and preparation for aviation internships and professional experience opportunities.

**AVMG 4040 BUSINESS AVIATION MANAGEMENT (3) LEC. 3. Pr. AVMG 1010.** Current principles and practices in commercial and business/corporate flight operations including organizational sources of revenue, functions, operation, and typical problems.

**AVMG 4063/4060 COMMERCIAL AVIATION SAFETY (3) LEC. 3. Pr. AVMG 3050.** Junior Standing or Departmental Approval. Analysis of safety principles and regulatory practices of the FAA, NTSB, and ICAO, emphasizing FAA and ICAO Safety Management Systems.

**AVMG 4080 AIR TRANSPORT PLANNING (3) LEC. 3. Pr. AVMG 3140 and AVMG 3200 and AVMG 3600.** Junior Standing or Departmental Approval. Management decision making involved in selection of equipment, routes and the establishment of rates by certified and non-certified air carriers.
AVMG 4133/4130 AIRPORT MANAGEMENT (3) LEC. 3. Pr. AVMG 3050. Junior Standing or Departmental Approval. Practices in management of a civil public airport, including organization, functions, operations, sources of revenue, funding, maintenance and administration.

AVMG 4140 AIRPORT PLANNING AND DESIGN (3) LEC. 3. Pr. AVMG 4130. Junior Standing or Departmental Approval. Principles and procedures pertaining to planning airport facilities required to meet the immediate and future air transportation of a community or region.

AVMG 4193/4190 AIRSPACE MANAGEMENT (3) LEC. 3. Pr. AVMG 3050. Junior Standing or Departmental Approval. Air traffic control procedures, facilities, center, and operations. Theory of radar operation and air traffic separation.

AVMG 4203/4200 AIR CARGO OPERATIONS (3) LEC. 3. Pr. AVMG 1010. Junior Standing or Departmental Approval. Domestic and international air cargo operations with emphasis on cargo economics, equipment, domestic and international regulatory activities, agents, operational techniques, systems and problems.


AVMG 4920 INTERNSHIP IN AVIATION MANAGEMENT (1-6) INT. Practical on-the-job training under supervision with aviation agencies. Written reports are required by designated faculty supervisors. Course may be repeated for a maximum of 6 credit hours.

AVMG 4967 HONORS SPECIAL PROBLEMS (1-3) LEC. Pr. Honors College. Honors College. Special topics presented to Honors College students. Course may be repeated for a maximum of 3 credit hours.

AVMG 4997 HONORS THESIS (1-3) IND. Pr. Honors College. Honors College. Thesis for Honors College students. Course may be repeated for a maximum of 3 credit hours.

AVMG 5093/5090 AVIATION LAW AND POLICY (3) LEC. 3. Pr. AVMG 1010. Junior Standing or Departmental Approval. The legal structure of aviation including federal, local and state statutes, contracts, insurance and liability, regulatory statutes, and case law.

AVMG 5170 AIRLINE MANAGEMENT (3) LEC. 3. Pr. AVMG 1010 and AVMG 3050. Junior Standing or Departmental Approval. Airline manufacturing, economic, and operational/managerial issues, research and development and competition issues and a survey of the world's major airlines in terms of their management strategies and style.

AVMG 5183/5180 GLOBAL AIR TRANSPORTATION MANAGEMENT (3) LEC. 3. Pr. AVMG 3140 and AVMG 3200. Junior Standing or Departmental Approval. The economic development of international air transportation from its beginnings to present day. Explores a wide range of international aviation issues such as bilateral and open skies agreements, airline mega alliances, and joint ventures.

AVMG 5970 SPECIAL TOPICS IN AVIATION MANAGEMENT (1-3) LEC. 3. Investigation of current issues in the aviation industry.

AVMG 6090/6096 AVIATION LAW AND POLICY (3) LEC. 3. Departmental approval. The legal structure of aviation including federal, local, and state statutes, contracts, insurance and liability, regulatory statutes and case law.

AVMG 6170/6176 AIRLINE MANAGEMENT (3) LEC. 3. Departmental approval. Airline manufacturing, economic, and operation/managerial issues, research and development and competition issues and a survey of the world's major airlines in terms of their management strategies and style.

AVMG 6180/6186 GLOBAL AIR TRANSPORTATION MANAGEMENT (3) LEC. 3. Pr. AVMG 3140 and AVMG 3200 or departmental approval. International foreign air carriers, influences of ICAO and IATA, national ownership, determinants of power, operational and management practices, routes and fares/ Junior standing

AVMG 6970/6976 SPECIAL TOPICS AVIATION MNGT (1-3) LEC. 1-3. Departmental approval. Investigation of current issues in the aviation industry. Credit will not be given for both AVMG 5970 and AVMG 6970. Course may be repeated for a maximum of 9 credit hours.

AVMG 7930/7936 SPECIAL PROBLEMS AVIATION MNGT (1-3) LEC. 1-3. Departmental approval. Special problems and current status of the aviation and aerospace industries are analyzed through a problem solving exercise. Course may be repeated for a maximum of 6 credit hours.
Flight Education Courses

**AVMF 2141 FLIGHT ORIENTATION (1) LAB. 2.** Basic flight experience for non-pilots to familiarize aviation majors, engineers, teachers, and other students desiring a limited exposure to flight. Includes ground discussion and airplane flight time. Special fee.

**AVMF 2150/2153 PRINCIPLES OF PRIVATE FLIGHT (3) LEC. 3.** General introduction and preparation for the FAA Private Pilot Knowledge Test. Theory of flight, aircraft and engine performance, regulations, meteorology, navigation, airspace utilization, and aviation physiology. Special fee.

**AVMF 2171 PRIVATE PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2150.** Dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fee. Departmental approval may be needed.

**AVMF 2181 PRIVATE PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2171.** Departmental approval. Continuation of dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fee and

**AVMF 2233/2230 PRINCIPLES OF INSTRUMENT FLIGHT (3) LEC. 3. Pr. AVMF 2181.** Instruments, FAA regulations, air traffic procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Knowledge Test. Special Fee.

**AVMF 2241 INSTRUMENT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2230.** Flight instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating – Airplane Practical Test. Special fees. Requires at least a valid FAA 3rd Class Medical certificate.

**AVMF 2253/2250 PRINCIPLES OF COMMERCIAL FLIGHT (3) LEC. 3. Pr. AVMF 2251.** FAA regulations, high altitude operations, aerodynamics, commercial flight maneuvers, environmental, ice control, retractable landing gear, and aircraft performance as applied to commercial flying. Preparation for the FAA Commercial Pilot Knowledge Test. Special fee.

**AVMF 2251 INSTRUMENT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2241.** Departmental approval. Continuation of instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Practical Test. Special fee and

**AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2251.** Flight training toward the Commercial Pilot Certificate. Special fee.

**AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2261.** Continuation of flight training towards the Commercial Pilot Certificate. Emphasis on advanced commercial maneuvers, complex airplane systems, and cross country flying. Special fee.

**AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271.** Specialized instruction in methods and techniques of multi-engine aircraft operations. Sufficient classroom and flight instruction is given under FAA Part 141 to qualify for the FAA Multi-Engine Rating. Special Fees.

**AVMF 4283/4280 PRINCIPLES OF FLIGHT INSTRUCTION (3) LEC. 3.** Principles of teaching as applied to instructing, analyzing, and evaluating flight students. Emphasis is on preparation for the FAA Fundamentals of Instructing and the Flight Instructor-Airplane Knowledge Tests.


**AVMF 4320 AIRLINE TRANSPORT CATEGORY SYSTEMS AND PROCEDURES (4) LEC. 3. LAB. 1. Pr. AVMF 2250.** Airbus A320 systems and operational procedures (normal, abnormal, and emergency). Part 121 carrier flight and crew management. Special fee.

**AVMF 4331 TRANSPORT AIRCRAFT FLIGHT TRAINING (2) LAB. 6.** Departmental approval. Includes instrument and night instruction, emergency procedures and actual air transportation operations. Preparation for the Airline Transport Pilot Certification, if otherwise qualified. Special fees and

**AVMF 4351 INSTRUMENT FLIGHT INSTRUCTOR TRAINING (2) LAB. 6.** Discussion, instruction, and arranged practice in instrument flight instruction in preparation for FAA Instrument Instructor Certificate. Special fees.

**AVMF 4371 MULTI-ENGINE FLIGHT INSTRUCTOR TRAINING (2) LAB. 6.** Departmental approval. Discussion, instruction and arranged practice in multi-engine flight instruction in preparation for the Multi-Engine Instructor Certificate. Special fees. Flight Instructor Certificate (ASE)
AVMF 4400 APPLIED AERODYNAMICS AND PROPULSION SYSTEMS (3) LEC. 3. Pr. PHYS 1000 or PHYS 1007. Private Pilot Certificate, or Departmental approval. The principles of aerodynamics and propulsion and how aerodynamic factors affecting lift, thrust, drag, in-air performance, stability and flight control.