

School of Aviation

The School of Aviation offers two undergraduate degrees accredited by the Aviation Accreditation Board International: Aviation Management and Professional Flight.

- The Aviation Management Degree focuses on the business knowledge needed for success in the airline and aviation industries, emphasizing general management and a comprehensive understanding of all aspects of aviation operations.
- The Professional Flight Degree offers a quality aviation education that provides a solid foundation of aeronautical knowledge and piloting skills expected by professional aviation organizations and necessary for success in the aviation industry.

The School of Aviation offers one minor:

- Aviation Management (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/universitycollege/aviationmanagement_minor/)

The School of Aviation offers an undergraduate certificate with the College of Human Sciences:

- Aviation Hospitality Management Certificate (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/departmentofaviation/aviationhosp_UCRT/)

Curriculum in Aviation Management

The Aviation Management degree contains an embedded general business minor and 12 hours of free electives to tailor the degree to individual career aspirations.

Freshman

Fall	Hours	Spring	Hours
AVMG 1010 Introduction to Aviation		3 AVMG 2400 Theory of Flight	3
MATH 1130 Pre-Calculus Trigonometry		3 ENGL 1120 English Composition II	3
ENGL 1100 English Composition I		3 ECON 2020 Principles of Microeconomics	3
Core Science I		4 COMM 1000 Public Speaking	3
Free Elective		3 Core Science II	4
	16		16

Sophomore

Fall	Hours	Spring	Hours
AVMG 2050 Introduction to Unmanned Aircraft Systems (UAS)		3 AVMG 2600 Human Factors in Aviation	3
PHIL 1040 Business Ethics ¹		3 AVMG 2810 Leadership for the Aviation Professional	3
ECON 2030 Principles of Macroeconomics ²		3 ACCT 2810 Fundamentals Of Accounting	3
Core History		3 Core History to complete the series	3
Free Elective		3 Core Literature	3
	15		15

Junior

Fall	Hours	Spring	Hours
AVMG 3050 Aviation Weather		3 AVMG 3600 Aircraft Maintenance Management	3
AVMG 3140 Air Transport Industry Development		3 AVMG 3200 Applied Analysis in Air Transportation	3
FINC 3810 Foundations of Business Finance		3 MKTG 3810 Foundations of Business Marketing	3

MNGT 3810 Management Foundations		3 Core Social Science		3
Free Elective		3 Free Elective		3
		15	15	
Senior				
Fall	Hours	Spring		Hours
AVMG 4060 Commercial Aviation Safety		3 AVMG 4200 Air Cargo Operations		3
AVMG 5090 Aviation Law and Policy		3 AVMG 4080 Air Transport Planning		3
AVMG 4130 Airport Management		3 AVMG 5180 Global Air Transportation Management		3
AVMG 4190 Airspace Management		3 AVMN Directed Elective²		3
AVMN Directed Elective²		3 Core Fine Arts		3
		UNIV 4AA0 Achieve the Creed		0
		15	15	
Total Hours: 122				

§ General Business Minor is embedded in the Aviation Management Degree. Students must declare this minor no later than their sophomore year.

* Students enrolled in the University Honors College may enroll in the Honors equivalents of any of the core options.

¹ PHIL 1020 may substitute for PHIL 1040.

² BUSI 3250 may substitute for ECON 2030

³ Approved AVMN Directed Electives (one of the two AVMN Directed Electives must be at 3000-level or above):

- AVMF 2150 Principles of Private Flight (3 hrs)
- AVMF 4400 Applied Aerodynamics and Propulsion Systems (3 hrs)
- AVMG 3500 Airport Operations (3 hrs)
- AVMG 3710 Stress Management in Aviation (3 hrs)
- AVMG 4040 Business Aviation Management (3 hrs)
- AVMG 4140 Airport Planning and Design (3 hrs)
- AVMG 4920 Internship in Aviation Management (3 hrs)
- AVMG 5170 Airline Management (3 hrs)
- ENGL 3080 Business Writing (3 hrs)
- HIST 3070 History of US Air Power (3 hrs)
- HIST 3500 History of Aviation (3 hrs)
- HIST 5580 The History of Flight (3 hrs)
- HRMN 3420 Human Resource Management (3 hrs)
- HRMN 4430 Labor Relations (3 hrs)
- HRMN 5480 Labor Relations Law (3 hrs)
- INSY 3020 Occupational Safety and Ergonomics (3 hrs)
- ISMN 5370 Project Management (3 hrs)
- MNGT 3460 Organizational Behavior (3 hrs)

Admissions, Standards, and Requirements

Eligibility for admission to the Aviation Management program is determined by the Auburn University Admissions Office on the basis of the candidate's test scores and previous academic record.

Transfer Students

Transfer students (external and internal) may enter the Aviation Management program during any semester.

Curriculum in Professional Flight

Auburn University is a FAA-approved Part 141 pilot school. Flight operations are conducted at the Auburn University Regional Airport (KAUO), located less than three miles from campus.

The Professional Flight degree qualifies the graduate for the eventual attainment of the FAA Restricted Airline Transport Pilot (R-ATP) certification with as little as 1,000 hours of flying experience. Degree certifications and ratings include Private Pilot Certification, Instrument-Airplane Rating, Commercial Pilot Certification, and Multi-Engine Rating. Certificated Flight Instructor with Airplane Single-Engine rating (CFI), CFI with Instrument-Airplane rating (CFII), and CFI with Multi-Engine rating (MEI) courses are also available. Initial Commercial Pilot certification (AVMF 2261, AVMF 2271, and AVMF 4271) MUST be completed at Auburn. Ground and flight training for Private Pilot and Instrument Rating-Airplane completed at another FAA-approved Institution of Higher Learning (IHL) may be applied towards FAA R-ATP reduced hours eligibility. Students enrolled in flight training coursework at Auburn must register for and complete all current and subsequent AVMF courses at Auburn.

Freshman			
Fall	Hours	Spring	Hours
AVMG 1010 Introduction to Aviation		3 AVMF 2181 Private Pilot Flight Training II	2
AVMF 2150 Principles of Private Flight		3 ENGL 1120 English Composition II	3
AVMF 2171 Private Pilot Flight Training I		2 SCMH 1010 Concepts of Science	4
MATH 1610 Calculus I		4 COMM 1000 Public Speaking	3
ENGL 1100 English Composition I		3 ECON 2020 Principles of Microeconomics	3
	15		15
Sophomore			
Fall	Hours	Spring	Hours
AVMG 2050 Introduction to Unmanned Aircraft Systems (UAS)		3 AVMG 2600 Human Factors in Aviation	3
AVMF 2230 Principles of Instrument Flight		3 AVMF 2251 Instrument Flight Training II	2
AVMF 2241 Instrument Flight Training I		2 AVMG 2810 Leadership for the Aviation Professional	3
PHYS 1400 Physics for Aviators		4 PHIL 1040 Business Ethics ¹	3
Core History		3 Core History to complete the series	3
	15		14
Junior			
Fall	Hours	Spring	Hours
AVMG 3050 Aviation Weather		3 AVMG 3600 Aircraft Maintenance Management	3
AVMG 3140 Air Transport Industry Development		3 AVMG 3200 Applied Analysis in Air Transportation	3
AVMF 2260 Principles of Commercial Flight		3 AVMG 4190 Airspace Management	3
AVMF 2261 Commercial Pilot Flight Training I		2 AVMF 2271 Commercial Pilot Flight Training II	2
Core Social Science		3 AVMF 4400 Applied Aerodynamics and Propulsion Systems	3
Core Literature		3	
	17		14

Senior

Fall	Hours	Spring	Hours
AVMG 4060 Commercial Aviation Safety		3 AVMG 4080 Air Transport Planning	3
AVMG 5090 Aviation Law and Policy		3 AVMG 5180 Global Air Transportation Management	3
AVMG 4130 Airport Management		3 AVMF 4320 Airline Transport Category Systems and Procedures	4
AVMF 4271 Multi-Engine Flight Training		2 Free Elective	3
AVMG 4200 Air Cargo Operations		3 Free Elective	3
Core Fine Arts		3 UNIV 4AA0 Achieve the Creed	0
		17	16
Total Hours: 123			

* Students enrolled in the University Honors College may enroll in the Honors equivalents of any of the core options.

¹ PHIL 1020 may substitute for PHIL 1040.

Additional Program Specifications for Professional Flight Curriculum

1. Advanced Placement credit may be granted only for Private Pilot and Instrument Rating Airplane certifications upon evidence of the FAA pilot certificate/rating held at the time of enrollment and upon satisfactory completion of applicable aeronautical knowledge and flight proficiency evaluations.
2. Initial Commercial Pilot certification (AVMF 2261, AVMF 2271, and AVMF 4271) MUST be completed at Auburn.
3. Ground and flight training for Private Pilot and Instrument Rating-Airplane completed at another FAA-approved Institution of Higher Learning (IHL) may be applied towards FAA R-ATP reduced hours eligibility.
4. Students enrolled in flight training coursework at Auburn must register for and complete all current and subsequent AVMF courses at Auburn.

Admissions, Progression Standards, and Requirements

Eligibility for admission to the Professional Flight program is determined by the Auburn University Admissions Office on the basis of the candidate's test scores and previous academic record.

Transfer Students

Transfer students (external and internal) may enter the Professional Flight program during Fall or Spring semester and will be accepted on a space-available basis as determined by the school director. A minimum cumulative grade point average of 2.70 is required.

Progression

Students must earn a grade of at least C in all courses in the major and maintain a minimum 2.70 institutional GPA. The Professional Flight curriculum is designed for progressive development of flight knowledge and skills, and students who earn less than a C will not be allowed to progress to the next course. A course in which a student earns a grade less than a C may be repeated one time only. Successful completion of the repeated course will result in the student being allowed to continue to progress through the Professional Flight degree curriculum. Students who earn a grade less than a C in two or more Professional Flight major courses or maintain an institutional GPA below 2.70, will be required to meet with the school director and may be considered for dismissal from the program.

Flight Fees

Flight lab courses have an associated flight fee established by the School of Aviation prior to the start of the academic year. Flight fees cover aircraft, flight simulation, flight instructor, and FAA knowledge exam fees. (VA students are responsible for FAA Certification exam fees.) The training hours and fees outlined below are the minimum to complete a flight lab course, based on the FAA-approved training course outline (TCO). Students requiring additional instruction will incur additional flight lab fees. Unexpected large changes in fuel prices may necessitate the addition of a fuel surcharge for all training airplane usage. Fuel prices are subject to change from term to term.

AU COURSE		FLIGHT TRAINING		COST
AVMF 2171	Hourly Rate	Dual	Solo	
Training Airplane (ASEL)	\$252.00	30	-	\$7,560.00
Oral Discussion	\$60.00	20	-	\$1,200.00
Pre/Post-Flight Briefing	\$60.00	13.5	-	\$810.00
Professional Fee	-	-	-	\$125.00
			Total	\$9,695.00

AVMF 2181				
Training Airplane (ASEL)	\$252.00	22	-	\$5,544.00
Training Airplane (ASEL)	\$192.00		6	\$1,152.00
Flight Simulation	\$115.00	2	-	\$230.00
Oral Discussion	\$60.00	12	-	\$720.00
Pre/Post-Flight Briefing	\$60.00	10.5	-	\$630.00
Professional Fee	-	-	-	\$125.00
FAA Certification Fee	-	-	-	\$250.00
			Total	\$8,651.00

Private Pilot Certification (ASEL)

Minimum Total FAA Certification Cost: \$18,346.00

AU COURSE		FLIGHT TRAINING		COST
AVMF 2241	Hourly Rate	Dual	Solo	
Training Airplane (ASEL)	\$252.00	14	-	\$3,528.00
Flight Simulation	\$115.00	11	-	\$1,265.00
Oral Discussion	\$60.00	14	-	\$840.00
Pre/Post Flight Briefing	\$60.00	12.5	-	\$750.00
Professional Fee	-	-	-	\$125.00
			Total	\$6,508.00

AVMF 2251				
Training Airplane (ASEL)	\$252.00	30	-	\$7,560.00
Flight Simulation	\$115.00	5	-	\$575.00
Oral Discussion	\$60.00	18	-	\$1,080.00
Pre/Post Flight Briefing	\$60.00	9.5	-	\$570.00
Professional Fee	-	-	-	\$125.00
FAA Certification Fee	-	-	-	\$250.00
			Total	\$10,160.00

Instrument Rating - Airplane

Minimum Total FAA Certification Cost: \$16,668.00

AU COURSE		FLIGHT TRAINING		COST
AVMF 2261	Hourly Rate	Dual	Solo	
Training Airplane (AEL)	\$252.00	46	-	\$11,592.00
Flight Simulation	\$115.00	4	-	\$460.00
Oral Discussion	\$60.00	30	-	\$1,800.00
Pre/Post Flight Briefing	\$60.00	16.5	-	\$990.00
Professional Fee	-	-	-	\$125.00
			Total	\$14,967.00

AVMF 2271

Training Airplane	\$252.00	35	-	\$8,820.00
Oral Discussion	\$60.00	20	-	\$1,200.00
Pre/Post Flight Briefing	\$60.00	11.0	-	\$660.00
Professional Fee	-	-	-	\$125.00
			Total	\$10,805.00

AVMF 4271

Training Airplane (AMEL)	\$435.00	30	-	\$13,050.00
Flight Simulation	\$115.00	5	-	\$575.00
Oral Discussion	\$60.00	16	-	\$960.00
Pre/Post Flight Briefing	\$60.00	12	-	\$720.00
Professional Fee	-	-	-	\$125.00
FAA Certification Fee	-	-	-	\$250.00
			Total	\$15,680.00

Commercial Pilot Certification, Airplane Multi-Engine Land (AMEL)

Minimum Total FAA Certification Cost: \$41,452.00

Note: This course is only for students who hold a commercial pilot certificate, single-engine rating.

AU COURSE		FLIGHT TRAINING		COST
AVMF 4271	Hourly Rate	Dual	Solo	
Training Airplane (AMEL)	\$435.00	30	-	\$13,050.00
Flight Simulation	\$115.00	5	-	\$575.00
Oral Discussion	\$60.00	16	-	\$960.00
Pre/Post Flight Briefing	\$60.00	12	-	\$720.00
Ground Training	\$60.00	15	-	\$900.00
Professional Fee	-	-	-	\$125.00
FAA Certification fee	-	-	-	\$250.00
			Total	\$16,580.00

Flight Instructor Certification, Airplane Single-Engine (ASE)

Minimum Total FAA Certification Cost: \$10,888.00

AU COURSE		FLIGHT TRAINING		COST
AVMF 4281	Hourly Rate	Dual	Solo	
Training Airplane (ASEL)	\$252.00	29	-	\$7,308.00
Flight Simulation	\$115.00	1	-	\$115.00
Oral Discussion	\$60.00	38	-	\$2,280.00
Pre/Post Flight Briefing	\$60.00	13.5	-	\$810.00
Professional Fee	-	-	-	\$125.00
FAA Certification Fee	-	-	-	\$250.00
			Total	\$10,888.00

Additional Airplane Class Rating, Airplane Multi-Engine Land (AMEL)

Minimum Total FAA Certification Cost: \$16,580.00

Note: This course is only for students who hold a commercial pilot certificate, single engine rating.

AU COURSE		FLIGHT TRAINING		COST
AVMF 4351	Hourly Rate	Dual	Solo	
Flight Training	\$252.00	20	-	\$5,040.00
Oral Discussion	\$60.00	22	-	\$1,320.00
Pre/Post Flight Briefing	\$60.00	9.5	-	\$570.00

Ground Training	\$60.00	15	-	\$900.00
Professional Fee	-	-	-	\$125.00
FAA Certification Fee	-	-	-	\$250.00
			Total	\$8,205.00

Flight Instructor Certification, Instrument-Airplane (IA)

Minimum Total FAA Certification Cost: \$8,205.00

AU COURSE		FLIGHT TRAINING		COST
AVMF 4371	Hourly Rate	Dual	Solo	
Flight Training (AMEL)	\$435.00	30	-	\$13,050.00
Flight Simulation	\$115.00	5	-	\$575.00
Oral Discussion	\$60.00	16	-	\$960.00
Pre/Post Flight Briefing	\$60.00	12	-	\$720.00
Ground Training	\$60.00	20	-	\$1,200.00
Professional Fee	-	-	-	\$125.00
FAA Certification Fee	-	-	-	\$250.00
			Total	\$16,880.00

Flight Instructor Certification, Airplane Multi-Engine (AME)

Minimum Total FAA Certification Cost: \$16,880.00

Flight Instruction Lab Enrollment

Students may not enroll themselves in a flight instruction lab and may only be enrolled in a flight instruction lab by the Professional Flight Academic Advisor. Additionally, students may not enroll in the next sequential flight instruction lab until successful completion of the previous lab.

If a student completes a flight instruction lab from a previously enrolled term before the last day of the flight block, the student may not begin the next flight lab during that same term, unless approved by the appropriate individuals. (VA students are not allowed to be enrolled in flight courses prior to the last day to withdraw from the term.)

With the approval of the (1) Professional Flight Academic Advisor, (2) the Chief Flight Instructor, (3) and the Director, School of Aviation, students may be added to classes after the 15th class day (in the full semester), but prior to the Last Day to Withdraw date as published in the Auburn University Academic Calendar.

If not approved, students must wait until the next term to begin and participate in their next flight lab.

Flight Instruction Lab Structure

Students are required to submit their semester schedule to the Professional Flight Academic Advisor after the student has registered for all their academic courses. Flight instruction labs are assigned to students by the Professional Flight department who will then review student schedules and select which flight instruction lab best suits the student's needs.

AU Flight instruction labs are typically offered in 2-hour increments on either (1) Monday, Wednesday, Friday or (2) Tuesday, Thursday, Saturday. These scheduled flight labs are structured to provide course completion by the end of the registered term.

Priority Enrollment

Per VA Regulations, Veterans receive Priority Registration. Additionally, both the flight instruction lab and student classification (Senior, Junior, Sophomore, Freshman) are taken into consideration when determining "priority" enrollment. Students who are registered in Certificated Flight Instructor (CFI) courses are next, following in sequential order down to students enrolled in Private Pilot courses.

Flight Instruction Lab Attendance

Attendance for flight instruction labs is mandatory. Unexcused absences, attending lessons unprepared, or repeated late-shows may result in monetary penalties, grade penalties, and can jeopardize a student's enrollment status in the AU Professional Flight program.

A Safety Meeting, held during the first 5 days of the start of each semester term, must be attended by all AU Professional Flight students. Since attendance is mandatory for students participating in flight instruction labs, a student will be considered to have

“started” their respective flight instruction lab on the date the meeting is held; provided (1) the student attended the Safety Meeting and (2) is registered for a flight instruction lab that begins on the first day of the semester term.

Students who begin a flight instruction lab during one of the allowed sections built within the term are also required to begin the flight instruction lab within 5 days of the first day the section is offered. Since the Safety Meeting is held before the section’s first day, attendance of the Safety Meeting does not count as starting the flight instruction lab. Student progression through Flight Instruction Labs is tracked through the Professional Flight department’s flight training software. This software system not only indicates when a student is scheduled to begin a flight instruction lab, but also shows a date/time stamp of each flight instruction lesson or lab.

Flight Instruction Lab Make-Up Policy

Flight Instruction labs may be canceled for reasons both in and out of a student’s control. Reasons outside of a student’s control include weather, aircraft maintenance, and flight instructor availability. If a student misses a scheduled flight lab for one of these reasons, the student is expected to contact their Flight Instructor by email prior to their next scheduled flight lab to determine how the canceled flight lab may be made up.

In some cases, students may know in advance they will be absent for an assigned flight instruction lab. In these situations, the student must submit a completed Absence Notification Form to the AU Professional Flight department in accordance with departmental policies. The Absence Notification Form will be reviewed and determined as excused or unexcused.

If a student does not notify the AU Professional Flight department that they will miss an assigned flight instruction lab, the student will be charged a no-show fee. If a student misses a scheduled flight instruction lab more than 3 times for non-approved reasons, the student may be withdrawn from their current course. The student may also be reviewed for dismissal from the AU Professional Flight program.

Flight Instruction Lab Course Incompletes

Flight Instruction Labs are designed to be completed within a designated term. Student progression, however, is subject to both uncontrollable factors (weather, aircraft maintenance, and flight instructor availability) and controllable factors (student performance). To record a student’s Standards of Progress, a grade is assigned at the completion of the term, regardless of if the student has successfully finished the course. A grade of “NR” (Not Recorded) is assigned to the course if the student has not completed the course by the end of the assigned term.

If the student has not completed the Flight Instruction Lab by the end of the registered term, they may continue flying for course completion. Planned training hours and fees for each Flight Instruction Lab are based on the FAA-approved Training Course Outline (TCO). Students requiring additional instruction beyond those hours listed in the TCO will incur additional flight instruction lab fees that exceed the minimum required to complete the course. Once the student has completed the course, the AU Professional Flight department will follow Auburn University’s Grade Change Policy, changing the “NR” grade to the applicable letter grade.

Federal VA Students in the Professional Flight Program

The Alabama State Approving Agency (SAA) and the Department of Veterans Affairs (VA) have approved Federal VA funding for Auburn University’s Professional Flight and Aviation Management degree-programs. Under Chapter 33: Post 9/11 GI Bill®, the VA will cover the costs affiliated with Flight Instruction and required Ground School fees up to maximum reimbursement limits. Flight Instruction fees include aircraft and flight simulation fees, flight instructor fees, and FAA aeronautical knowledge tests. VA students are responsible for any FAA aeronautical knowledge test fees.

Students utilizing Federal VA Education benefits must (1) ensure they are registered for a Flight Instruction Lab prior to flying and (2) they are cleared by the School of Aviation to begin flying. Courses started after the 5th day of the posted term will be prorated per VA Policy with the remaining amount being the financial responsibility of the student. Only degree-applicable courses will be certified to the VA by Auburn University’s School Certifying Officials (SCO).

Per VA regulations, VA students may not be enrolled in multiple Flight Instruction Labs during the same registered term. If a student is enrolled in two or more flight instruction labs during the same registered term, the VA considers this as “Front Loading.” Front loading violates VA regulations as the VA will only cover affiliated costs of one flight instruction lab per term.

If a student utilizing Federal VA education benefits fails to adhere to Auburn University and VA Policies and Regulations, the student may be financially responsible for **all** flight related charges. *NOTE: The VA will ONLY cover the published amount listed in the Auburn University Bulletin and will NOT pay for any overage amounts/fees such as additional training like Proficiency or Review flights. If a student accrues any additional fees past the amount approved by the SAA, the financial responsibility is on the student.*

Additional information regarding VA education benefits is available in the Auburn University Veterans Resource Center (VRC). Please contact them at (334) 844-8167, veterans@auburn.edu or online at veterans.auburn.edu (<https://veterans.auburn.edu>).

Lastly, please refer to the AU Flight Operations Manual (FOM) for additional information about the AU Professional Flight program.

Majors

- Aviation Management (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/departmentofaviation/aviationmanagement_option/)
- Professional Flight (<http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/departmentofaviation/professionalflight/>)

Minors

- Aviation Management (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/universitycollege/aviationmanagement_minor/)

Undergraduate Certificates

- Aviation Hospitality Management (http://bulletin.auburn.edu/undergraduate/collegeofliberalarts/departmentofaviation/aviationhosp_UCRT/)

Aviation Management Courses

AVMG 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 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 2400 THEORY OF FLIGHT (3) LEC. 2.5. Introduction to the many systems that make up the aviation ecosystem, including aircraft, the humans and organizations that interact with them, and the principles and aerodynamics of flight.

AVMG 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 2810 LEADERSHIP FOR THE AVIATION PROFESSIONAL (3) LEC. 3. Pr. AVMG 1010. AVMN and AVPF majors only. The course is designed to socialize the student into the roles, activities, and responsibilities essential for the emerging aviation leader, and is foundational to preparation for a career in the aviation industry or aviation-related environments.

AVMG 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 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 3200 APPLIED ANALYSIS IN AIR TRANSPORTATION (3) LEC. 3. Pr. (AVMG 1010 or AVMG 1013) and (ECON 2020 or ECON 2023 or ECON 2027). Economic theory and applications in the evolving air transport industry. Analysis of market forces and government regulation that drive resource allocation and industry performance.

AVMG 3500 AIRPORT OPERATIONS (3) LEC. 3. Pr. (AVMG 1010 and AVMG 2400) or AVMF 2150. Practices in managing airport operational systems at air carrier airports.

AVMG 3600 AIRCRAFT MAINTENANCE MANAGEMENT (3) LEC. 3. Pr. AVMG 1010. Aircraft maintenance program fundamentals, procedures, and practices, with an emphasis on regulatory requirements.

AVMG 3710 STRESS MANAGEMENT IN AVIATION (3) LEC. 3. Pr. AVMG 2600. Examine stress and stress management techniques related to pilot decision-making, situational awareness, crew coordination, communication, human error, fatigue, fitness, attitudes, workload management and Crew Resource Management (CRM). Senior, Junior, or departmental approval required.

AVMG 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, domestic and international operations, maintenance requirements, and the importance of a sound safety culture.

AVMG 4060 COMMERCIAL AVIATION SAFETY (3) LEC. 3. Pr. AVMG 1010. 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. Management decision making involved in selection of equipment, routes and the establishment of rates by certified and non-certified air carriers.

AVMG 4130 AIRPORT MANAGEMENT (3) LEC. 3. Pr. AVMG 3050. 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. Principles and procedures pertaining to planning airport facilities required to meet the immediate and future air transportation of a community or region.

AVMG 4190 AIRSPACE MANAGEMENT (3) LEC. 3. Pr. AVMG 3050. Air traffic control procedures, facilities, center, and operations. Theory of radar operation and air traffic separation.

AVMG 4200 AIR CARGO OPERATIONS (3) LEC. 3. Pr. AVMG 1010. 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. 1-3. 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 5090 AVIATION LAW AND POLICY (3) LEC. 3. Pr. AVMG 1010. 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. 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 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 (3) LEC. 3. Investigation of current issues in the aviation industry.

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

AVMG 6170 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 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 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 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. 1. 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 aircraft time. Special fee.

AVMF 2150 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. 2. Pr. AVMF 2150. Dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fees. Requires a valid FAA 1st Class Medical Certificate. Departmental approval required.

AVMF 2181 PRIVATE PILOT FLIGHT TRAINING II (2) LAB. 2. Pr. AVMF 2171. Departmental approval. Continuation of AVMF 2171 to prepare for FAA Private Pilot Certification. Special fees. Requires a valid FAA 1st Class Medical certificate and Student Pilot certificate.

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

AVMF 2241 INSTRUMENT FLIGHT TRAINING I (2) LAB. 2. Pr. AVMF 2230. 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 fees. Requires a valid FAA 1st Class Medical Certificate. Departmental approval required.

AVMF 2251 INSTRUMENT FLIGHT TRAINING II (2) LAB. 2. Pr. AVMF 2241. Departmental approval. Continuation of AVMF 2241 in preparation for the FAA Instrument Rating - Airplane Practical Test. Special fees. Requires a valid FAA 1st Class Medical certificate.

AVMF 2260 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 Aeronautical Knowledge Test (CAX). Special Fee.

AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB. 2. Pr. AVMF 2251. Flight training toward FAA Commercial Pilot Certification. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB. 2. Pr. AVMF 2261. Continuation of AVMF 2261 towards FAA Commercial Pilot Certification. Emphasis on advanced commercial maneuvers, and cross country flying. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271. Specialized instruction in methods and techniques of multi-engine airplane operations. Sufficient ground and flight instruction is given towards an FAA Multi-Engine Airplane Rating. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

AVMF 4280 PRINCIPLES OF FLIGHT INSTRUCTION (3) LEC. 3. Pr. AVMF 4271. Principles of teaching as applied to instructing, analyzing, and evaluating flight students. Emphasis is on preparation for the FAA Fundamentals of Instructing (FOI) and the Flight Instructor-Airplane (FIA) Aeronautical Knowledge Tests. Special Fee.

AVMF 4281 FLIGHT INSTRUCTION TRAINING (3) LAB. 3. Discussion, instruction and arranged practice in flight instruction in preparation for the FAA Flight Instructor Certification with an Airplane Single-Engine rating. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

AVMF 4310 TRANSPORT CATEGORY AIRCRAFT SYSTEMS (3) LEC. 3. Pr. P/C AVMF 2260. Study of design and operation of the major systems in transport category aircraft, using the Boeing 737 as a model. Systems include turbine engine, fuel, lubrication, electrical, hydraulic, pneumatic, pressurization, environmental control, and flight management. Also examines the use of normal checklists, the Quick Reference Handbook (QRH), Minimum Equipment List (MEL), and Configuration Deviation List (CDL). School of Aviation, Junior or Senior, or Departmental approval required.

AVMF 4320 AIRLINE TRANSPORT CATEGORY SYSTEMS AND PROCEDURES (4) LEC. 3. LAB. 1. Pr. AVMF 2250 or AVMF 2260. 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. 2. 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. Requires a valid FAA 1st Class Medical Certificate.

AVMF 4351 INSTRUMENT FLIGHT INSTRUCTOR TRAINING (2) LAB. 2. Discussion, instruction, and arranged practice in instrument flight instruction in preparation for FAA Instrument-Airplane Flight Instructor Certification. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

AVMF 4371 MULTI-ENGINE FLIGHT INSTRUCTOR TRAINING (2) LAB. 2. Departmental approval. Discussion, instruction and arranged practice in multi-engine flight instruction in preparation for FAA Multi-Engine Airplane Flight Instructor Certification. Special fees. Requires a valid FAA 1st Class Medical certificate and Flight Instructor Certificate (ASE).

AVMF 4400 APPLIED AERODYNAMICS AND PROPULSION SYSTEMS (3) LEC. 3. Pr. PHYS 1400 or PHYS 1000. Private Pilot Certificate or departmental approval. The principles of aerodynamics and propulsion and how aerodynamic factors affect lift, thrust, drag, in-air performance, stability, and flight control.