

# Aviation Management - AVMG

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## 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.