

# Aviation Tech/Admin/ Mgmt (ATA)

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## Courses

### ATA A102 Introduction to Aviation Technology 3 Credits

Introduces aspects of the aviation transportation industry, including general aviation, airlines, airports, aircraft manufacturing, and government organizations. Provides an overview of aviation history. Outlines career opportunities in the aviation industry, including certifications, job qualifications, concepts and responsibilities of an aviation professional.

### ATA A132 History of Aviation 3 Credits

Traces aviation history with particular emphasis on manned-powered flight. Emphasizes the Golden Age of Flight (1900-1945) and the Jet Age (1945-present).

### ATA A133 Aviation Law and Regulations 3 Credits

Overviews the U.S. legal system, origin of laws (national and international) influencing aviation, case studies of aviation litigation, and organization. Includes authority, responsibility, and functions of the entities that regulate or influence modern aviation.

### ATA A134 Principles of Aviation Administration 3 Credits

Introduces business administration in general, with an aviation focus. Emphasizes the theories of corporate organization and management. Examines trends in aviation administration.

### ATA A233 Aviation Safety 3 Credits

Surveys aviation safety to identify primary causes of aviation accidents. Introduces the process of developing and evaluating safety programs, as well as developing interventions. Introduces the concepts of Safety Management Systems (SMS) and examines the roles of the National Transportation Safety Board (NTSB), other appropriate agencies, and future concepts in aviation safety.

**Prerequisites:** ATA A102 with a minimum grade of C or ATC A147 with a minimum grade of C or concurrent enrollment.

### ATA A290 Selected Topics in Aviation Technology 1-6 Credits

Provides introductory learning in topic areas related to the aviation industry. Course content is determined by current industry trends, topic aspects, and student needs. Emphasizes identification, summation, and understanding of current aviation topics.

**Special Note:** A maximum of 6 credits may be applied toward the Bachelor of Science in Aviation Technology. May be repeated for a maximum of 6 credits with a change in subtitle.

**Registration Restrictions:** Department approval

### ATA A295 Aviation Internship I 1-3 Credits

Provides generalized aviation-related work experiences for the purpose of introducing students to the aviation industry. Students are supervised by aviation industry professionals and program faculty.

**Special Note:** Open entry/open exit. Students must apply to the Aviation Technology Division to coordinate placement prior to course enrollment.

**Registration Restrictions:** Grade of C or better in 12 credits of Aviation Technology-related classes. Department permission required. Proof of accident insurance required.

### ATA A331 Human Factors in Aviation 3 Credits

Covers human factors of flight, including physiological and mental aspects.

**Prerequisites:** ATA A233 with a minimum grade of C.

### ATA A335 Airport Operations 3 Credits

Examines the management and operation of civil airports.

**Registration Restrictions:** Junior standing

**Prerequisites:** ATA A102 with a minimum grade of C and ATA A134 with a minimum grade of C.

### ATA A336 Air Service Operations 3 Credits

Assesses functions of air service operations. Analyzes organization, financing, revenues and expenses, construction, expansion, safety, and working relations with local agencies, including airport management.

**Registration Restrictions:** Junior standing

**Prerequisites:** ATA A102 with a minimum grade of C and ATA A134 with a minimum grade of C.

### ATA A337 Airline Operations 3 Credits

Analyzes airline organization and management, including classifications, management methods, governmental relationships, and financial positions. Examines airline operations, market research, demand determination, and effects of FAA regulations.

**Prerequisites:** ATA A102 with a minimum grade of D and ATA A134 with a minimum grade of D.

### ATA A415 Crew Resource Management 3 Credits

Examines Crew Resource Management (CRM) principles and programs in various aviation employment settings, such as piloting, Air Traffic Control (ATC), management, and aviation maintenance. Examines how to evaluate human perceptions and the decision-making process in the aviation environment. Examines how to develop CRM training programs applicable in various aviation employment settings.

**Prerequisites:** ATA A331 with a minimum grade of C.

### ATA A425 Civil Aviation Security 3 Credits

Analyzes applicable civil aviation transportation security regulations and policy. Assesses security risks and formulates potential intervention, prevention, or enhancement plans using current and developing technology.

### ATA A431 Aircraft Accident Investigation 3 Credits

Provides a comparative examination of elements and issues used in a field and laboratory investigation of an aircraft accident. Focuses on researching, discovering and analyzing the facts used to determine probable cause of an aircraft accident. Teaches how to develop a corrective action plan to prevent recurrence.

**Prerequisites:** ATA A233 with a minimum grade of C and ATA A331 with a minimum grade of C.

**ATA A490** Advanced Topics in Aviation Technology **1-6 Credits**

Provides advanced theoretical and/or experiential learning in all areas of aviation technology, aviation maintenance, professional piloting, aviation administration, and Air Traffic Control (ATC). Specific course content is determined by current industry trends and student needs. Emphasizes the following applications to current technical information: analysis, evaluation and synthesis.

**Special Note:** May be repeated for a maximum of 6 credits with a change of subtitle. A maximum of 6 credits may be applied toward the Bachelor of Science in Aviation Technology.

**Registration Restrictions:** Department approval

**ATA A492** Air Transportation System Seminar **3 Credits**

Analyzes and evaluates current events, issues, globalization, and emerging technologies in the air transportation industry. Evaluates present and future implications for the industry. Integrates technical, business, and general education knowledge to complete research and project assignments.

**Registration Restrictions:** Completion of GER Tier 1 (basic college-level skills) courses. Junior standing and division approval required.

**Prerequisites:** ATA A337 with a minimum grade of C.

**Attributes:** UAA Integrative Capstone GER.

**ATA A495** Aviation Internship II **1-3 Credits**

Provides specialized aviation-related work experiences pertinent to educational program and future employment objectives. Overseen by program faculty and an aviation industry professional. Complete a major industry project specific to student's area of scholastic preparation.

**Special Note:** Open entry/open exit. Students must apply to the Aviation Technology Division to coordinate placement prior to course enrollment.

**Registration Restrictions:** Minimum grade of C in 12 credits of Aviation Technology-related classes, proof of student accident insurance, junior or senior standing, and department approval

**ATA A603** Human Error Analysis in Aviation **3 Credits**

Provides an in-depth examination of human error and its implications in the realm of aviation safety. The course will include a review of, and present techniques for addressing, human error. Developing intervention strategies for a simulated organization and presenting findings and recommendations.

**Registration Restrictions:** Graduate standing or instructor approval.

**ATA A604** Safety Management Systems in Aviation **3 Credits**

Provides a theoretical foundation and application of Safety Management Systems (SMS) in aviation. The course examines each of the components associated with SMS used in aviation and students will develop a generic framework that can be modified to fit any aviation organization. The exploration will also include the refinement of current SMS as well as the development of a safety management policy and assurance techniques.

**Registration Restrictions:** Graduate standing or instructor approval.

**Prerequisites:** ATA A603.

**ATA A690** Selected Topics in Aviation **3 Credits**

Provides advanced theoretical and applied learning in all areas of the Aviation Technology Division (aviation maintenance, professional piloting, aviation administration and air traffic control). Specific course content is determined by current industry trends and identified issues. Emphasizes the following applications to current technical information: analysis, evaluation and synthesis.

**Special Note:** May be repeated for a maximum of 6 credits with change of subtitle.

**Registration Restrictions:** Graduate standing or instructor approval