Aviation Tech/Admin/Mgmt (ATA)

Courses

ATA A102 Introduction to Aviation Technology 3 Credits
Introduces all aspects of the aviation transportation industry, including general aviation, airlines, airports, aircraft manufacturing, and government organizations. Emphasizes career opportunities and career paths, certification and job qualifications, concepts and responsibilities of an aviation professional, and self-assessment.

ATA A102A Introduction to Aviation Technology A 2 Credits
Introduction to aviation academic life and expectations in the aviation industry. Provides foundational knowledge of the aviation industry.

ATA A102B Introduction to Aviation Technology B 1 Credit
Explores the various segments of aviation. Provides an overview of many of the employment opportunities available within the aviation industry.

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, authority, responsibility, and/or functions of the government or non-government 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. Examines the roles of the National Transportation Safety Board, other appropriate agencies and future concepts in aviation safety.
Prerequisites: ATA A102 or ATC A147 or concurrent enrollment.

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 A31 Human Factors in Aviation 3 Credits
Covers the following aspects of human factors: the meaning of human factors, human error, body rhythms and sleep, fitness and performance, vision and visual illusions, motivation and speech, attitudes and persuasion, training and training devices, documentation, displays and controls, space and layout, the aircraft cabin, and its human payload.
Prerequisites: ATA A233 with a minimum grade of C.

ATA A335 Airport Operations 3 Credits
Examines the management and operation of civil airports. Emphasizes master planning, Federal Aviation Regulations dealing with airport operations, environmental issues, land use planning, airport capacity delay and access factors, economics impacts, financial analyses and budgeting systems, security, liability, maintenance, professional qualification, and public relations.
Registration Restrictions: Junior standing
Prerequisites: ATA A102 and ATA A134.

ATA A336 Air Service Operations 3 Credits
Assesses functions of air service operations. Analyzes organization, financing, revenues and expenses, construction, expansion, safety, and relations with local agencies, including airport management.
Registration Restrictions: Junior standing
Prerequisites: ATA A102 and ATA A134.

ATA A337 Airline Operations 3 Credits
Examines 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 and ATA A134.

ATA A415 Company Resource Management 3 Credits
Examines Company Resource Management (CRM) principles and programs in various aviation employment settings, such as piloting, air traffic control, management, and aviation maintenance. Examines how to evaluate human perceptions and the decision-making process in the aviation environment to develop CRM training programs applicable in various aviation employment settings.
Prerequisites: ATA A331.

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.
Registration Restrictions: Upper-division standing

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 the application of relevant course material to research, discover, and analyze facts used to determine the probable cause of an aircraft accident and develop corrective action to prevent recurrence.
Prerequisites: ATA A233 and ATA A331.
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). 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: A maximum of 6 credits may be applied toward the BSAT degree. May be repeated for credit under different topic.

Registration Restrictions: Department permission

ATA A492 Air Transportation System Seminar 3 Credits
Analyzes and evaluates current events, issues, globalization, and emerging technologies in the air transportation industry, emphasizing 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 aviation industry professional and program faculty. 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 required in 12 credits of Aviation Technology-related classes. Department permission required. Proof of accident insurance required. Junior standing required.

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.