Registration Restrictions: maximum of 6 credits with a change in subtitle.

Bachelor of Science in Aviation Technology. May be repeated for a

Special Note: Open entry/open exit. Students must apply to the

Registration Restrictions: Grade of C or better in 12 credits of

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.

ATA A331 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

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

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 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 A233.

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

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. Introduces an overview of aviation history.
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,
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.

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 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

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

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 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 A233.

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.