Air Traffic Control (ATC)

Courses

ATC A143 ATC Regulations 3 Credits
Introduces Federal Aviation Regulations governing the Air Traffic Control System and the role of air traffic control specialists within the federal system.

ATC A144 ATC Flight Procedures 3 Credits
Presents types of navigation aids and their operational characteristics. Introduces navigation tools and references, and their utilization.

ATC A241 Control Tower Operations 3 Credits
Explains operating techniques of ATC airport facilities in visual and instrument conditions. Includes operations of airport lighting systems, proper phraseology, separation requirements, control techniques and emergency actions.

ATC A242 ATC Terminal Radar Procedures 3 Credits
Explores RADAR theory fundamentals and systems operation in air traffic control. Examines procedures of instrument traffic control in the terminal radar environment.

ATC A241L Control Tower Operations Lab 1 Credit
Employs hands-on time in the control tower simulator. Emphasizes real-life ATC situations to develop techniques for the manipulation of air traffic during taxi, takeoff, and landing.

ATC A242L ATC Terminal Radar Procedures Lab 1 Credit
Employs hands-on time in radar laboratory simulators to develop techniques for the separation, vectoring and speed control of air traffic in a terminal radar environment.

ATC A243 ATC Enroute Procedures 3 Credits
Explores procedures of instrument traffic control in RADAR and non-RADAR environments. Emphasizes longitudinal, vertical, and lateral separation of air traffic.

ATC A243L ATC Enroute Procedures Lab 1 Credit
Explores techniques of longitudinal, vertical, and lateral separation of air traffic using lab scenarios designed to develop routine problem solving processes to adapt the student controller to real-life ATC situations.

ATC A240 Comprehensive Air Traffic Control Overview 2 Credits
Integrates concepts from all previous air traffic control classes, and examines the relationship between course material and occupational application. Contrasts academic and vocational use of knowledge, and prepares students to apply knowledge in the vocational setting.

ATC A250 Flight Dispatcher Overview 3 Credits
Provides an overview of the flight dispatcher profession and prepares students for the transition from the academic to work environment. Requires extensive study in meteorology, flight planning, and Federal Aviation Regulations used by dispatchers.

ATC A251 Tools for Weather Briefing 3 Credits
Covers the operation and assessment of observation from three major weather sensors (Doppler RADAR, Weather Satellites, and Automated Surface Observation System), as well as analysis of weather charts and messages. Focuses on determining the state of the atmosphere, formulating trends, and their cause and effect. Qualifying air traffic control majors may receive Weather Observer Certification upon successful completion of Federal Aviation Administration knowledge exams.

ATC A325 Flight Dispatcher Overview 3 Credits
Prepares students for the practical application of previously acquired knowledge necessary to perform flight dispatcher functions. Focuses on the effects of weight and balance, performance, and flight characteristics in normal and abnormal flight.

ATC A355 Integrated Radar Techniques 3 Credits
Contrasts different radar specialties, including tracon, en route, and military. Examines relationship between facilities and focuses on potential problems where responsibilities overlap. Compares military and civilian traffic techniques, and dynamics of adapting to changing flow control standards.

ATC A350 Facility Operation and Administration 3 Credits
Emphasizes effective operation and administration of air traffic service facilities and conflict resolution between the FAA and labor unions. Evaluates current issues and events, and their potential impact on the National Airspace System.

Registration Restrictions: Sophomore standing or above

Prerequisites: BA A361 and BA A461.