

Air Traffic Management (ATMG)

ATMG 101 Air Traffic Student Success Seminar 1 Credit (1,0)

Personal, interpersonal, intellectual, social skills for success in air traffic management degree programs; time management; study skills; goal clarification; coping strategies for challenges unique to air traffic-related studies.

Course Offered at: Daytona Beach, Prescott

ATMG 199 Special Topics in Air Traffic Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in air traffic management.

Course Offered at: Daytona Beach, Prescott

ATMG 202 Introduction to Air Traffic Management 3 Credits (3,0)

FAA mission, organization, operation; publications, control tower operations, future ATC systems, flight principles, VFR/IFR charts, emergency procedures, METARs, AIRMETs, SIGMETs, ATC communications.

Course Offered at: Daytona Beach, Prescott

ATMG 299 Special Topics in Air Traffic Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in air traffic management.

Course Offered at: Daytona Beach, Prescott

ATMG 305 Introduction to Terminal Radar Operations 3 Credits (3,0)

Basic ATC procedures for IFR in terminal radar facilities; TRACON controller duties and responsibilities; practical lab problems using high-fidelity simulation for terminal radar operations.

Prerequisites: ATMG 202

Course Offered at: Daytona Beach, Prescott

ATMG 306 Safety in Air Traffic Management 3 Credits (3,0)

FAA and international ATM safety policies; safety associated with weather; impacts of modernization such as NextGen and SESAR; cybersecurity in ATM.

Prerequisites: ATMG 202

Course Offered at: Daytona Beach, Prescott

ATMG 307 Global Harmonization in Air Traffic Management 3 Credits (3,0)

Air traffic controller and staff roles within FAA and international ATM organizations; global ATM harmonization and integration; familiarity with global ANSPs, SESAR, NextGen, EASA, ICAO, and other organizations.

Prerequisites: ATMG 202

Course Offered at: Daytona Beach

ATMG 310 Air Traffic Control Tower for Non ATC 3 Credits (3,0)

Control tower equipment; operating positions; airport traffic area; navigation aids; VFR traffic patterns; phraseology; taxi instructions; coordination; federal aviation regulations; emergency handling; strip marking; aircraft recognition; wake turbulence; VFR and IFR procedures.

Course Offered at: Daytona Beach

ATMG 315 Introduction to Air Traffic Control Tower 3 Credits (3,0)

Control tower equipment; operating positions; airport traffic area; navigation aids; VFR traffic patterns; phraseology; taxi instructions; coordination; federal aviation regulations; emergency handling; strip marking; aircraft recognition; weather observations; lighting systems; wake turbulence; VFR and IFR procedures; runway incursions; ATIS; visibility determination; NOTAMS; runway selection criteria.

Prerequisites: ATMG 202

Course Offered at: Daytona Beach, Prescott

ATMG 325 Ramp Control 3 Credits (3,0)

Functions and responsibilities of airport ramp control: gate assignments, service vehicles, aircraft guidance and air traffic control coordination.

Prerequisites: ATMG 315

Course Offered at: Daytona Beach, Prescott

ATMG 399 Special Topics in Air Traffic Management 1-6 Credit (1-6,0)

Individual, independent or directed studies of selected topics in air traffic management.

Course Offered at: Daytona Beach, Prescott

ATMG 401 Advanced Terminal Radar Operations 3 Credits (3,0)

Control instructions; handoffs; coordination with adjacent controllers; conflict resolution; real-time decision making; controlling strategies; dynamic scenario work; group/team coordination.

Prerequisites: ATMG 305

Course Offered at: Daytona Beach, Prescott

ATMG 404 Introduction to En Route Operations 3 Credits (3,0)

Vertical, lateral, and longitudinal separation of aircraft in all phases of flight; phraseology; strip marking; instrument/visual approaches; coordination procedures in an en route non-radar environment; decision-making skills; and scenarios for entry-level qualification as an air traffic control specialist.

Prerequisites: ATMG 305 or ATMG 315

Course Offered at: Daytona Beach

ATMG 405 Advanced En Route Operations 3 Credits (3,0)

Vertical, lateral, and longitudinal separation in all flight phases; phraseology; strip marking; approaches; coordination; keyboard commands in en route environments.

Prerequisites: ATMG 404

Course Offered at: Daytona Beach, Prescott

ATMG 407 Practicum in En Route Operations 1 Credit (0,3)

Procedures and minima prescribed in FAAH 7110.65; vertical, lateral, and longitudinal separation of aircraft in all phases of flight; phraseology; strip marking; instrument and visual approaches; coordination; and keyboard commands in an en route environment utilizing ERAM and EDST.

Prerequisites: ATMG 405

Course Offered at: Daytona Beach

ATMG 408 En Route Radar Associate 3 Credits (3,0)

Vertical, lateral and longitudinal separation in all phases of flight; phraseology, strip marking, coordination, and keyboard commands in ERAM and ERAM Decision Support Tool applied on the Radar Associate Position of an En Route Radar Sector.

Prerequisites: ATMG 404

Corequisites: ATMG 405

Course Offered at: Daytona Beach, Prescott

ATMG 415 Advanced Air Traffic Control Tower 3 Credits (3,0)

Moderate to busy tower operations; tower equipment; Flight Data procedures; VFR/IFR sequencing; parallel/intersecting runway operations; LAHSO; emergency handling; ARFF procedures; inter/intra-facility coordination; wake turbulence; SOPs for position transfer.

Prerequisites: ATMG 315

Course Offered at: Daytona Beach, Prescott

ATMG 417 Practicum in Air Traffic Control Tower Operations 1 Credit (0,1)

Application of knowledge of moderate to busy tower operations; control tower equipment; airspace rules and procedures; VFR traffic pattern, including sequencing multiple IFR and VFR inbound aircraft; parallel runway procedures and intersecting runway operations; Land and Hold Short Operations (LAHSO); System Information Areas (SIAs); inter and intra facility coordination; same runway separation; wake turbulence separation; airport vehicle operations; and aircraft repositioning operations.

Prerequisites: ATMG 415

Course Offered at: Daytona Beach, Prescott

ATMG 425 Collaborative Air Traffic Management 3 Credits (3,0)

Traffic flow management definitions; NextGen concepts and technologies; system analysis of airspace constraints; impact on NAS traffic flow efficiency.

Prerequisites: ATMG 401 or ATMG 404

Course Offered at: Daytona Beach

ATMG 499 Special Topics in Air Traffic Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in air traffic management.

Prerequisites: ATMG 415 or ATMG 404

Course Offered at: Daytona Beach, Prescott