

AIR TRAFFIC MANAGEMENT, ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

Program Learning Outcomes: Graduates will be able to:

1. Explain the structure and operation of the National Airspace System.
2. Apply air traffic control procedures in simulated tower, radar, and non-radar environments.
3. Demonstrate standardized communication and coordination using ATC phraseology.
4. Apply safety management systems and human factors principles to identify and mitigate risk.
5. Exhibit professionalism, situational awareness, and ethical responsibility in aviation operations.

Program Requirements

CIP Code: 49.0105

Code	Title	Hours
University Graduation Requirements		
<i>Student Success Seminar</i>		
GSD 101	Foundations of Learning	3
<i>General Education</i>		18
1A: Written Communication I (https://catalogs.eku.edu/undergraduate/general-academic-information/essential-education-requirements/written-communication-i/)		
1B: Written Communication II (https://catalogs.eku.edu/undergraduate/general-academic-information/essential-education-requirements/written-communication-ii/)		
1C: Oral Communication (https://catalogs.eku.edu/undergraduate/general-academic-information/essential-education-requirements/oral-communication/)		
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) ^E	
3A: Arts (https://catalogs.eku.edu/undergraduate/general-academic-information/essential-education-requirements/arts/) or		
3B: Humanities (https://catalogs.eku.edu/undergraduate/general-academic-information/essential-education-requirements/humanities/)		
ECO 230	Fundamentals of Microeconomics (Element 5B) ^E	
Major Requirements		
<i>Core Courses</i>		
AVN 180	Introduction to Air Traffic Management	3
AVN 257	Air Traffic Management Regulations and Procedures	3
AVN 271	Control Tower Operations	3
AVN 272	Control Tower Simulation Laboratory	1
AVN 291	Introduction to Terminal Radar Operations	2
AVN 292	Terminal Radar Operations Laboratory	1
AVN 335	Weather Reporting/Analysis	3
AVN 380	Advanced Control Tower Operations	3

AVN 381	Advanced Control Tower Laboratory	1
AVN 382	Advanced Terminal Radar Operations	2
AVN 383	Advanced Terminal Radar Operations Laboratory	1
AVN 392	Non-Radar Environment	3
AVN 393	Non-Radar Environment Laboratory	1
AVN 396	Airspace Management	3
AVN 478	Enroute Radar Operations	3
AVN 485	Control Tower Operator Performance and Certification	3
Choose three hours of any AVN subject course not required above		3
Total Hours		60

E Course also satisfies an Essential Education element. Hours are included within the Essential Education requirement above.

Exit Requirements: Completion of all required coursework with a minimum institutional GPA and satisfactory performance in simulation laboratories. Employment eligibility is determined by the Federal Aviation Administration and requires successful completion of the Air Traffic Skills Assessment (ATSA), meeting FAA medical standards, and passing required security and background investigations.