

Bachelor of Science in Aeronautics with a Major in Air Traffic Management

NOTE: This program has a selective admission process. See your adviser for information.

Required: 120 credits (36 of which must be numbered 300 or above) including:

- I. Essential Studies Requirements (see University ES listing).
- II. School of Aerospace Sciences Requirements (see College section).
- III. The following curriculum:

| Code | Title | Credits |
|--------------------------------------|---|-------------|
| Essential Studies Courses | | |
| ENGL 110 | College Composition I | 3 |
| ENGL 130 | Composition II: Writing for Public Audiences | 3 |
| COMM 110 | Fundamentals of Public Speaking | 3 |
| Social Science Electives | | 9 |
| Fine Arts and Humanities Electives | | 9 |
| ATSC 110 | Meteorology I | 3 |
| ATSC 110L | Meteorology I Laboratory | 1 |
| MATH 107 | Precalculus | 3-4 |
| or MATH 110 | Mathematics in Society | |
| PHYS 161 | Introductory College Physics I | 4-5 |
| or PHYS 150 | Physics for Aerospace Sciences | |
| Aviation Courses | | |
| AVIT 100 | Aviation Orientation | 1 |
| AVIT 102 | Introduction to Aviation | 3-6 |
| or AVIT 105 | Essentials of Flight | |
| or AVIT 142 & AVIT 143 | Introduction to Aviation-Helicopter and Private Pilot-Helicopter Certification Lab | |
| AVIT 103 | Introduction to Air Traffic Management | 2 |
| AVIT 126 | Introduction to UAS Operations | 2 |
| AVIT 208 | Aviation Safety | 3 |
| AVIT 250 | Human Factors | 2 |
| AVIT 260 | Air Traffic Tower Operations I | 4 |
| AVIT 261 | Air Traffic RADAR Operations I | 4 |
| AVIT 362 | Air Traffic Tower Operations II | 4 |
| AVIT 363 | Air Traffic RADAR Operations II | 4 |
| AVIT 402 | Airport Planning and Administration | 3 |
| AVIT 403 | Aerospace Law | 3 |
| AVIT 464 | Air Traffic Tower Operations III | 4 |
| AVIT 468 | Air Traffic Non-RADAR Environment | 4 |
| AVIT 469 | | |
| AVIT 470 | Air Traffic Enroute RADAR Operations | 4 |
| AVIT 485 | Aviation Senior Capstone | 3 |
| Other Requirements | | |
| Select one of the following | | 3 |
| COMM 212 | Interpersonal Communication | |
| COMM 401 | Organizational Communication | |
| Select three of the following | | 8-10 |
| AVIT 239 | Autonomous Fundamentals | |
| AVIT 309 | Flight Physiology | |
| AVIT 311 | Safety Management System (SMS) | |

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| AVIT 312 | Aircraft Accident Investigation | |
| AVIT 314 | Advanced Aircraft Accident Investigation | |
| AVIT 328 | Fundamentals of Aircraft Systems Operations | |
| AVIT 350 | Human Error | |
| AVIT 430 | Crew Resource Management | |
| AVIT 476 | Risk Management | |
| ATSC 231 | Aviation Meteorology | |
| MGMT 300 | Principles of Management | |
| Select one of the following | | 3 |
| BADM 225 | Professional Communication for Business | |
| ENGL 227 | Literature and the Environment | |
| ENGL 230 | Analyzing Worldview through Story | |
| ENGL 231 | Literature and Social Issues | |
| ENGL 308 | Intermediate Creative Nonfiction Writing | |

Plus electives to reach 120 credits

* Students will be required to use their electives to establish expertise in a second field, which means completion of a second major, a minor, a specialization, or other degree sub-plans. The Aviation Department may be consulted to discuss other sub-plan options.