

Aviation Technology (BS)



EXPLORE YOUR OPPORTUNITIES

The Bachelor of Science in Aviation Technology prepares students for professional positions within the aviation industry. Related career opportunities are found with airlines, airports, general aviation, government organizations, education, and the aerospace industry. Students are able to customize the degree to their specific interest and career goals with three emphasis areas in Air Traffic Control, Aviation Management, and Professional Piloting.

Educational Pathway Options

Recommended Preparation

High School

- Algebra II
- Geometry
- Trigonometry
- Pre-Calculus
- Reading & Writing Skills
- Computer Applications*
- Physics
- Aviation*

* Students may earn college credit through Tech Prep, uaa.alaska.edu/techprep.

Certificates

2 Years

- Aviation Maintenance Technology
- Powerplant
- Airframe

Associate of Applied Science (AAS)

2-3 Years

- Air Traffic Control
- Professional Piloting
- Aviation Administration

Bachelor of Science (BS)

4-5 Years

Aviation Technology Emphasis Areas:

- **Air Traffic Control**
- **Aviation Management**
- **Professional Piloting**

CAREER CONNECTIONS

- Transportation, Distribution, & Logistics
- Business, Management, & Administration
- Hospitality & Tourism

APPLICATION PROCESS

OFFICE OF ADMISSIONS

- 1 Apply for admission at www.uaa.alaska.edu/admissions.
- 2 Review admission requirements for your student type.
- 3 Submit required documents to UAA Office of Admissions (see below).
- 4 Take the SAT, ACT, or Accuplacer test for English and math course placement. Call the UAA Advising & Testing Center at 907.786.4500 for testing information.
- 5 Make an appointment for academic advising at 907.786.7205 and meet regularly with an advisor.
- 6 Access the Future Student Checklist online at <http://www.uaa.alaska.edu/futurestudents/checklist.cfm> to stay on track.

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AVIATION TECHNOLOGY (BS)

This information is based on the 2008-2009 UAA Course Catalog. Please refer to the current catalog for complete information.

▶ COMPLETE GENERAL EDUCATION (31 credits)

COMM 235	Small Group Communication [recommended for Professional Piloting and Air Traffic Control; or 111 (recommended for Aviation Management) or 237, 241] (3)
ENGL 111	Methods of Written Communication (3) <i>PL</i>
ENGL 212	Technical Writing (3) <i>PL, PR</i>
MATH 172	Applied Finite Mathematics (3) <i>PL</i>
MATH 272	Applied Calculus (3) <i>PL, PR</i>
PHIL 101	Introduction to Logic (3)
PHYS 123/L	Basic Physics I (with lab) (4) <i>PR or</i>
CHEM 105/L	General Chemistry I (with lab) (4) <i>PR</i>
Electives	One each in Fine Arts (3), Humanities (3), & Natural Sciences (3)

▶ COMPLETE CORE COURSES (42 credits)

ATP 100	Private Pilot Ground School (3)
ATA 102	Introduction to Aviation Technology (3)
ATA 133	Aviation Law & Regulations (3)
ATA 233	Aviation Safety (3)
ATP 235	Elements of Weather (3)
ATA 331	Human Factors in Aviation (3)
ATA 415	Company Resource Management (3) <i>S</i>
ATA 425	Civil Aviation Security (3) <i>F</i>
ATA 492	Air Transportation System Seminar [Capstone] (3)*
BA 300	Organizational Theory & Behavior (3) <i>PR</i>
BA 361	Human Resource Management (3) <i>PR</i>
BA 461	Negotiation & Conflict Management (3) <i>PR</i>
BA 488	The Environment of Business (3) <i>PR</i>
CIS 110	Computer Concepts in Business (3) <i>PR</i>

▶ COMPLETE EMPHASIS AREA (48-51 credits)

▶ Air Traffic Control (48 credits)

UAA has no restrictions on maximum age or physical condition of students; however, students desiring employment with the Federal Aviation Administration (FAA) should be aware of FAA employment requirements (found at www.faa.gov/jobs).

ATA 132	History of Aviation (3)
ATC 143	ATC Regulations (3) <i>PR</i>
ATC 144	ATC Flight Procedures (3) <i>PR</i>
ATC 147	Pilot/Controller Techniques (3) <i>PR</i>
ATC 241/L	Control Tower Operations (with lab) (4)
ATC 242/L	ATC Terminal Radar Procedures (with lab) (4)
ATC 243/L	ATC Enroute Procedures (with lab) (4)
ATC 325	Tools for Weather Briefing (3) <i>PR</i>
ATC 340	Terminal Instrument Procedures (3)
ATC 440	Facility Operation & Administration (3) <i>F</i>
CIS 305	Managerial Presentations (3) <i>PR</i>
CIS 376	Management Information Systems (3) <i>PR</i>
PSY 380	Psychology of Stress & Coping (3)
ECON 201	Principles of Macroeconomics (3)*
Elective	Social Sciences (3)*

▶ Professional Piloting (49 credits)

Theory and flight training is provided through an FAA Part 141 approved curriculum. An FAA Class II medical exam and proof of US citizenship are required before beginning any flight or airplane simulator training.

ATP 101	Pre-Professional Flying (2)
ATP 116	Instrument Ground School (3) <i>PR</i>
ATP 126	Instrument Flying (2)
ATP 200	Commercial Ground School (3) <i>PR</i>
ATP 218	Commercial Flying I (1.5)
ATP 219	Commercial Flying II (1.5)
ATP 220	Commercial Flying III (2)
ATP 232	Advanced Aviation Navigation (3)
ATP 300	CFI Ground School (3)
ATP 301	CFI Flying (2)
ATP 305	Additional Aircraft Rating (2)
ATC 325	Tools for Weather Briefing (3) <i>PR</i>
ATP 332	Transport Aircraft Systems (3) <i>S</i>
ATA 337	Airline Operations (3) <i>F</i>
ATA 431	Aircraft Accident Investigation (3) <i>F</i>
ACCT 201	Principles of Financial Accounting (3)
ECON 201	Principles of Macroeconomics (3)*
Elective	Social Sciences (3)*
Elective	Upper Division & Advisor Approved (3)

▶ Aviation Management (51 credits)

Completion of this degree includes a Minor in Business Administration.

ACCT 201	Principles of Financial Accounting (3)
ACCT 202	Principles of Managerial Accounting (3) <i>PR</i>
ATA 132	History of Aviation (3)
ATA 134	Principles of Aviation Administration (3)
ATA 335	Airport Operations (3) <i>S</i>
ATA 336	Air Service Operations (3) <i>F</i>
ATA 337	Airline Operations (3) <i>F</i>
ATA 431	Aircraft Accident Investigation (3) <i>F</i>
BA 151	Introduction to Business (3)*
BA 343	Principles of Marketing (3) <i>PR</i>
BA 447	International Marketing (3) <i>PR</i>
CIS 305	Managerial Presentations (3) <i>PR</i>
CIS 376	Management Information Systems (3) <i>PR</i>
ECON 201	Principles of Macroeconomics (3)
ECON 202	Principles of Microeconomics (3) <i>PR</i>
PARL 101	Introduction to Law (3)*
Elective	Upper Division & Advisor Approved (3)

A total of 121-124 credits is required for this degree, of which the following must be upper division: Professional Piloting (42), Air Traffic Control (42), Aviation Management (48).

- * Course fulfills a BS General Education Requirement
- S Offered spring semester only
- PR Prerequisite required (see catalog)
- F Offered fall semester only
- PL Placement test required

01-2009

AVIATION TECHNOLOGY DIVISION: 907.786.7200
AVIATION WEBSITE: www.uaa.alaska.edu/aviation
COMMUNITY & TECHNICAL COLLEGE: 907.786.6400
CTC WEBSITE: www.uaa.alaska.edu/ctc

UAA OFFICE OF ADMISSIONS: 907.786.1480
ADDRESS: P.O. Box 141629, Anchorage, AK 99514-1629



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