



## FACULTY

**Chairperson:** Associate Professor Michael Farley

**Assistant Professors:** Richard Abers, Veronica Coté, Michael Sloan

**Department Telephone Number:** 508.531.1779

**Location:** Harrington Hall, Room 111B

**Web site:** [www.bridgew.edu/Aviation](http://www.bridgew.edu/Aviation)

## DEGREE PROGRAM:

- BS in Aviation Science  
Concentrations: Aviation Management, Flight Training

## UNDERGRADUATE MINOR

- Aviation Science

## UNDERGRADUATE PROGRAMS

### BACHELOR OF SCIENCE IN AVIATION SCIENCE

The Department of Aviation Science offers a BS degree in Aviation Science with concentrations in flight training and aviation management. Graduates are prepared for entry into the aviation industry in productive, professional employment, or alternatively, for graduate study.

Federal Aviation Administration Certification of Bridgewater State College, as a Federal Aviation Regulation (FAR) Part 141 ground school, allows students to complete all required ground school courses at the college as part of the aviation science curriculum. Bridgewater State College is also designated by the Federal Aviation Administration as an Aviation Education Resource Center.

The Bridgewater State College aviation science program incorporates single engine and multi-engine flight simulator training into its flight training courses. For complete information on these programs, consult with the chairperson of the Department of Aviation Science.

### FLIGHT TRAINING CONCENTRATION\*

The flight training concentration combines academic studies and flight training, in order to prepare graduates for a wide variety of positions within the air transportation industry, including general, airline and military aviation<sup>1</sup>. The flight program allows the student to obtain private pilot, commercial pilot, instrument pilot and flight instructor certificates.

The curriculum provides the flight training necessary to operate in the high-density environment of modern airspace. The program emphasizes critical thinking and analytical skills, as well as oral and written communication skills. Effective resource management, human factors, and safety awareness are constantly emphasized throughout the curriculum. Complementing the intensive flight training is expert classroom instruction and use of flight simulators. A career in the flight training concentration leads to the development, administration, and enforcement of safety regulations, including airworthiness and operational standards in civil aviation. This program prepares the graduate for a career path that starts as a certified flight instructor, and leads to positions with airlines and corporate flight departments.

<sup>1</sup>Reserve Officer Training Corps (ROTC) scholarship opportunities are available. The ROTC program is designed to give students the opportunity to become a military officer while completing a bachelor's degree program. See the department chairperson for details.

#### CREDITS

AVSC 100 Private Pilot Flight.....	3
AVSC 105 Private Pilot Ground School.....	6
AVSC 200 Instrument Flight.....	4
AVSC 211 Commercial Pilot Ground School.....	3
AVSC 212 Instrument Pilot Ground School.....	3
AVSC 300 Commercial Flight.....	4
AVSC 303 Flight Instructor Ground School.....	3
AVSC 307 Air Carrier Operations.....	3
AVSC 310 Aviation Safety.....	3
AVSC 320 Aviation Regulatory Process.....	3
AVSC 400 Instructional Flight.....	3
COMP 105 Computers and Their Applications: An Introduction.....	3
ECON 102 Principles of Macroeconomics.....	3
GEOG 221 Meteorology.....	3
MATH 110 Elementary Statistics I.....	3
MATH 141 Elements of Calculus I.....	3
MGMT 130 Principles of Management.....	3
MGMT 140 Human Resources Management.....	3
PHYS 181 Elements of Physics I.....	4
PHYS 183 Aviation Physics.....	4

\*Please note that flight courses involve flight fees.

Total minimum credits: 67

### Core Curriculum Requirements

A minimum of 120 earned hours is required for graduation. These earned hours include Core Curriculum requirements as specified in the "Undergraduate Academic Programs" section of this catalog. For additional graduation requirements, see the "Undergraduate Academic Policies" section of this catalog.

## SCHOOL OF BUSINESS

**Note:** See Catalog Web Addenda at [www.bridgew.edu/catalog/addenda/](http://www.bridgew.edu/catalog/addenda/) as that information supersedes the published version of this catalog.

## AVIATION MANAGEMENT CONCENTRATION\*

The aviation management concentration is designed to prepare graduates for managerial and supervisory positions throughout the air transportation industry. Primary flight training is included, along with broad exposure to aviation specific business and management courses. This program of study is interdisciplinary in nature and prepares the aviation career-oriented student for virtually any management career in aviation or aviation-related industries. Some of these positions include airport manager, air carrier manager, and general aviation operations manager.

CREDITS

ACFI 240 Principles of Accounting I .....	3
ACFI 241 Principles of Accounting II .....	3
AVSC 100 Private Pilot Flight.....	3
AVSC 105 Private Pilot Ground School .....	6
AVSC 305 Introduction to General Aviation Management.....	3
AVSC 307 Air Carrier Operations.....	3
AVSC 310 Aviation Safety.....	3
AVSC 402 Insurance and Risk Management in Aviation.....	3
AVSC 407 Aviation Marketing Management .....	3
AVSC 471 Aviation Management.....	3
COMP 105 Computers and Their Applications: An Introduction .....	3
ECON 102 Principles of Macroeconomics.....	3
ENGL 201 Technical Writing I.....	3
GEOG 221 Meteorology .....	3
MATH 110 Elementary Statistics I .....	3
MATH 141 Elements of Calculus I .....	3
MGMT 130 Principles of Management.....	3
MGMT 140 Human Resources Management.....	3
MGMT 360 Business Data Processing.....	3
PHYS 181 Elements of Physics I .....	4
PHYS 183 Aviation Physics.....	4

\*Please note that flight courses involve flight fees.

One environmental science course: .....	3
EASC 194 Environmental Geology	
or	
GEOG 130 Environmental Geography	

Total minimum credits: 71

### Core Curriculum Requirements

A minimum of 120 earned hours is required for graduation. These earned hours include Core Curriculum requirements as specified in the "Undergraduate Academic Programs" section of this catalog. For additional graduation requirements, see the "Undergraduate Academic Policies" section of this catalog.

## AIRPORT MANAGEMENT CONCENTRATION

This program is inactive.

## AVIATION SCIENCE MINOR\*

The aviation science minor is divided into two options: a flight option and an aviation management option.

### Flight Option:

CREDITS

AVSC 100 Private Pilot Flight.....	3
AVSC 105 Private Pilot Ground School .....	6
MGMT 130 Principles of Management.....	3
Plus 6 credits in electives selected from the list below. ....	6
Total minimum credits (flight option):	18

### Aviation Management Option:

CREDITS

AVSC 305 Introduction to General Aviation Management .....	3
MGMT 130 Principles of Management.....	3
MGMT 140 Human Resources Management.....	3
Plus 9 credits in electives selected from the list below. ....	9
Total minimum credits (aviation management option):	18

### Electives:

AVSC 100 Private Pilot Flight
AVSC 105 Private Pilot Ground School
AVSC 200 Instrument Flight
AVSC 211 Commercial Pilot Ground School
AVSC 212 Instrument Pilot Ground School
AVSC 300 Commercial Flight
AVSC 303 Flight Instructor Ground School
AVSC 305 Introduction to General Aviation Management
AVSC 307 Air Carrier Operations
AVSC 400 Instructional Flight
AVSC 402 Insurance and Risk Management in Aviation
AVSC 407 Aviation Marketing Management
MGMT 140 Human Resources Management

\*Please note that flight courses involve flight fees.

## FLIGHT TRAINING AND GROUND SCHOOL

Students enrolled in the aviation science program must take all flight and flight-related courses through Bridgewater State College except as provided below\*. Flight training is provided under articulation agreements with Federal Aviation Administration (FAA) approved flight schools, which operate under Federal Aviation Regulation (FAR) Part 141. A list of college approved flight schools may be obtained from the aviation science department. Ground school courses are conducted by the college under Federal Aviation Regulation Part 141, as is the flight simulator training, which is required as a part of commercial and instrument flight training courses.

## PHYSICAL EXAMINATIONS

Students seeking admission to the flight training concentration must pass a Class II or better FAA physical examination; a Class III FAA physical is required for the aviation management concentration or any other program involving flight courses.

A copy of the certification for the appropriate flight physical must be on file with the aviation coordinator BEFORE FLIGHT TRAINING BEGINS.

---

## ACADEMIC CREDIT FOR FLIGHT TRAINING

The following procedures for granting academic credit for flight and flight-related ground school training for both incoming freshman students and transfer students are in accord with pertinent college policies. These policies are designed to ensure academic quality and to maximize safety for the participants in the aviation science program. All students requesting academic credit from Bridgewater State College for flight and flight-related ground school training are subject to these provisions. Credit for all other course work will be considered as specified in the college catalog under the sections concerning "Transfer Admissions" and "Transfer of Credit after Admission."

### \*Entering Freshmen and Transfer Students:

Freshmen or transfer students entering Bridgewater State College may request up to eighteen (18) credits for previous work in flight and flight-related ground school training under the following provisions:

1. To obtain credit for flight training, the student must: (a) provide valid documentation\*\* of the flight training concerned, (b) hold a current, appropriate flight physical certificate, and (c) pass a flight proficiency test conducted by an aviation science approved flight instructor. (Additional flight training may be required if a student has difficulty passing the flight proficiency test.) All costs for the flight proficiency test (and any additional flight training) will be borne by the applicant.
2. Credit for training in FAA certified ground schools may be obtained by providing valid documentation\*\* of the training concerned.

\*\*Valid documentation includes pertinent log books and other certificates, licenses and verification of the training from the school(s) concerned. This verification must be in the form of a statement, which identifies the school, describes the curriculum under which the training was taken and specifies the number of class hours involved. The statement must be signed by the chief flight instructor of the school. Up to full credit may be granted for courses from flight schools operating under Federal Aviation Regulation (FAR) Part 141 and up to half credit for training from schools operating under FAR Part 61.

*Credit authorized by the above procedure for flight and flight-related ground school courses may be applied as follows:*

Students entering the flight training concentration may apply up to 17 credits and students entering the aviation management concentration may apply up to 13 credits toward the academic major; any additional authorized flight training credit

will be designated as free electives. *At least 50 percent of the credits in any major field (major department) must be earned at Bridgewater State College.*

Students entering the *aviation science minor* may apply nine credits toward the minor; any balance may be credited toward free electives.

Authorized flight training credits specified above for the major, minor, and free electives may be applied toward the college graduation requirement of 120 credits (minimum).

**Please note:** For additional detailed information on the aviation science program call 508.531.1779 or write Chairperson, Department of Aviation Science, Bridgewater State College, Bridgewater, Massachusetts 02325.

Upon acceptance into the aviation science program, students must obtain a copy of the "Department of Aviation Science Policies and Procedures Manual." All students **MUST** comply with the policies and procedures as set forth in said manual. A copy of the policies and procedures manual can be obtained upon request through the Department of Aviation Science.

---

## HONORS PROGRAM

The Honors Program in Aviation Science provides highly motivated Aviation Science majors with opportunities to enhance their academic program through intensive scholarly study and research designed to be of assistance in post-graduate employment or in the pursuit of an advanced degree in Aviation Science. Contact the Department of Aviation Science for further information concerning eligibility and application.