



AEROSPACE SCIENCES, BACHELOR OF SCIENCE - AEROSPACE MANAGEMENT

Program Code: S800B

Career Pathway: Industry, Manufacturing, Construction & Transportation

Location(s): Program-specific courses for this program are offered at the Judson A. Samuels South Campus. (<https://www.broward.edu/about/locations/>)

Program Description: The Bachelor of Science (B.S.) in Aerospace Sciences degree is designed specifically for those students with a desire to work in various aviation-related careers. The program introduces students who are new to aviation to a wide-ranging sampling of the various sectors, but also allows students with a more focused approach the opportunity to concentrate on a particular area of interest. This program is intended to prepare graduates for a variety of supervisory, management, and leadership positions within the growing aviation industry at airlines, airports, aircraft maintenance, and repair and overhaul companies, etc. It is also designed to give current workers in the field advanced education to make them more competitive for promotion opportunities.

Students select from one of two tracks: Professional Pilot track (S800A) or Aerospace Management track (S800B).

Program Entrance Requirements: The Bachelor of Science degree in Aerospace Sciences uses a 2+2 model designed to provide individuals who have obtained an Associate of Science (A.S.) or Associate of Arts (A.A.) degree from a regionally accredited college or university the opportunity to further their education. Students may be required to complete lower division pre-requisite coursework.

The Bachelor of Applied Science is an open access program designed for the adult learner who has earned an Associate of Science or an Associate of Arts degree and wishes to advance professionally. General admission to Broward College is required, and students will submit a supplemental program application. Applicants for the B.S. program should have completed a minimum of 15 semester hours of general education requirements as part of their A.S. degree. The remaining general education semester hours (totaling 36) will be completed during the Bachelor of Science degree program. Students must meet all of the State of Florida Bachelor of Science general education requirements to be awarded the Bachelor of Science (B.S.) degree in Aerospace Sciences.

Applicants are required to have a cumulative grade point average (GPA) of 2.0 on a 4.0 scale in all post-secondary coursework. Applicants must be in good academic standing at the last institution they attended. Broward College will automatically access the transcripts of previous or current Broward College students applying to the B.S. program. As part of the admission process, students are required to complete an educational plan with their advisor.

Students who are new to Broward College must first apply to the college by visiting the college's website at www.broward.edu (<http://www.broward.edu>). General admission to Broward College does not constitute admission to the B.S. program. Students must also submit a supplemental program application, which can be found at www.broward.edu/aviation (<http://www.broward.edu/aviation/>). Students currently attending Broward College who wish to apply to the B.S. program are required to complete the supplemental program application which can be found at www.broward.edu/aviation (<http://www.broward.edu/aviation/>). Graduates or previous Broward College students who have not been in attendance for more than two major terms are required to complete both the re-entry application and the supplemental program application. Please visit www.broward.edu (<http://www.broward.edu/>) for the re-entry application and then visit the department website at www.broward.edu/aviation (<http://www.broward.edu/aviation/>) for the supplemental program application. International students must first be admitted to the college. Please visit www.broward.edu/international (<http://www.broward.edu/international/>) for admissions requirements. Once admitted, student will complete the supplemental program application.

Graduation Requirements: The Bachelor of Science degree will be awarded to students who meet the following requirements:

- A minimum of 120 semester credit hours in the prescribed coursework is required for the Bachelor of Science degree. Coursework is comprised of both lower division (A.A. or A.S.) and upper division (B.S.) as specified by the program sheet.
- Demonstrated competency in a foreign language; in digital literacy; and in oral communication.
- Students must maintain an overall GPA of 2.0 to meet their graduation requirements.

Additional Program Information: Students interested in pursuing the Bachelor of Science in Aerospace Sciences degree who have an Associate of Arts degree or who do not have an Associate of Science degree in an aviation-related program from Broward College may have additional prerequisite coursework to complete. This coursework may fulfill the requirements of the upper division coursework. Students must meet with an academic advisor to determine specific requirements based on previously completed lower division courses. Visit program's website (<http://www.broward.edu/aviation/>) for additional information.

| Course | Title | Credits |
|---------------------------|--|-----------|
| ENC1102 | COMPOSITION II | 3.00 |
| GE Course | General Education Mathematics Core ¹ | 3.00 |
| ASC3215 | ADVANCED AVIATION WEATHER | 3.00 |
| ASC3478 | ADVANCED HUMAN FACTORS I | 3.00 |
| ASC3321 | ADVANCED AVIATION LAW | 3.00 |
| AVM3443 | AVIATION CONTINGENCY PLANNING & EMERGENCY MANAGEMENT | 3.00 |
| AVM3522 | AIRLINE OPERATIONS I | 3.00 |
| AVM3302 | AVIATION SALES AND MARKETING | 3.00 |
| AMH2020 or POS2041 | HISTORY OF THE UNITED STATES SINCE 1877 NATIONAL GOVERNMENT | 3.00 |
| GE Course | General Education Humanities Core | 3.00 |
| AVM4180 | QUALITY ASSURANCE IN AVIATION | 3.00 |
| AVM4540 | AVIATION FINANCE | 3.00 |
| AVM4516 | DOMESTIC AVIATION OPERATIONS | 3.00 |
| AVM3030 | CUSTOMER RELATIONS IN AVIATION | 3.00 |
| AVM3600 | HUMAN RESOURCE MANAGEMENT IN AVIATION | 3.00 |
| AVM4160 | AVIATION PLANNING | 3.00 |
| AVM4170 | AVIATION PROJECT MANAGEMENT | 3.00 |
| AVM3630 | EMPLOYEE RELATIONS IN AVIATION | 3.00 |
| GE Course | General Education Natural Science Core | 3.00 |
| General Education Courses | Additional General Education | 3.00 |
| Total Credits | | 60 |

¹ MAC1105C COREQUISITE COLLEGE ALGEBRA is a 5-credit course. Students who register for this course must see an advisor to discuss their academic plan.

Notes:

See General Education course information here (<https://catalog.broward.edu/programs-study/aa-general-education-graduation-requirements/>).

Many courses have pre-requisite and co-requisite requirements that must be followed. Students are encouraged to consult the Course Information Table for a detailed list of all requisite requirements.

Students are strongly encouraged to meet with an advisor (<https://students.broward.edu/resources/advising/>) to create a personalized educational plan.

PROGRAM HIGHLIGHTS

CREDIT FOR PRIOR LEARNING

Accelerate your path to completion with these options:

- Credit by exam
- Earned industry certifications
- Prior Learning Assessment
- And much more...

RELATED INDUSTRY CERTIFICATIONS

Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses:

- Federal Aviation Administration Restricted Privileges Airline Transport Pilot (R-ATP)

GET AN INTERNSHIP

After completing your first year of coursework make sure to visit Employment Solutions (<https://broward.edu/career/>) for internship opportunities and helpful tools like virtual job shadow, to help take your career to the next level!

- Get an Internship (<http://broward.edu/studentresources/career/Pages/Find-a-job-or-internship.aspx>)
- Virtual Job Shadow Tool (<http://www.broward.edu/studentresources/career/Pages/default.aspx>)

MEDIAN WAGE AND JOB GROWTH OUTLOOK

Broward College has Career Coach (<https://www.broward.edu/careercoach/>)! It is designed to help you find a good career by providing the most current local data on wages, employment, job postings, and associated education and training.

FUND YOUR EDUCATION

This program is Financial Aid (<https://www.broward.edu/admissions/financial-aid/>) eligible. Scholarships (<https://www.broward.edu/admissions/financial-aid/scholarships/>) may be available.

PROGRAM LEARNING OUTCOMES

Graduates of the program will be able to:

- a. Compare varying methods of managing the airside and landside operations of a large airport;
- b. Discuss various facets of airline operations;
- c. Explain the environmental concerns related to airports and airline operations;
- d. Determine aviation security measures to implement in various scenarios;
- e. Evaluate and compare aviation maintenance tasks necessary for safe flight;
- f. Explain methods for designing modern airports;
- g. Develop a crew resource management plan;
- h. Identify and classify prohibited and hazardous materials;
- i. Demonstrate knowledge of the AS9100 strategy to analyze the Quality Assurance implementation in an Aviation company; and
- j. Analyze air transportation programs using privately owned, non-commercially operated aircraft on an expense-sharing basis under 14 CFR § 61.118(b). Students will determine the FAA's present position on the legality of such operations and the reasoning behind that position, and then evaluate its reasonableness.