



AEROSPACE SCIENCES, BACHELOR OF SCIENCE - PROFESSIONAL PILOT

Program Code: S800A

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).

Students who graduate from the Professional Pilot track who meet certain criteria may qualify for a restricted privileges airline transport pilot (R-ATP) certificate with reduced aeronautical experience of 1,000 hours or 1,250 hours, depending on degree and number of credits earned. Students must first have a Commercial Pilot Certificate to apply for this track.

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
ASC3321	ADVANCED AVIATION LAW	3.00
AVM3522	AIRLINE OPERATIONS I	3.00
AMH2020 or POS2041	HISTORY OF THE UNITED STATES SINCE 1877 NATIONAL GOVERNMENT	3.00
GE Course	General Education Humanities Core	3.00
ASC3478	ADVANCED HUMAN FACTORS I	3.00
GE Course	General Education Natural Science Core	3.00
General Education Courses	Additional General Education	3.00
AVM3443	AVIATION CONTINGENCY PLANNING & EMERGENCY MANAGEMENT	3.00
AVM4523	AIRLINE OPERATIONS II	3.00
ASC4476	ADVANCED HUMAN FACTORS II	3.00
ASC4200	ADVANCED FLIGHT PLANNING FOR T.C. AIRCRAFT	3.00
AVM4516	DOMESTIC AVIATION OPERATIONS	3.00
ASC4671	TRANSPORT CATEGORY AIRCRAFT OPERATIONS	5.00
AVM4700	INTERNATIONAL AVIATION OPERATIONS	3.00
ASC4551	ADVANCED HIGH ALTITUDE AERODYNAMICS	3.00
Transferred from AA or AS	Electives	4.00
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/>).

Students must satisfy the Digital Literacy requirement by testing out, completing a Credit for Prior Learning portfolio, or passing CGS1060C COMPUTER AND INTERNET LITERACY. Students who test out are required to take an approved elective.

In accordance with Florida Statute and Florida Administrative Code, students may need to satisfy the Civic Literacy Graduation Requirement. Visit the Civic Literacy Graduation Requirement page at broward.edu/civic-literacy (<https://students.broward.edu/resources/civic-literacy/>).

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:

- Interpret and assess large aircraft systems;
- Discuss relevant topics related to law and ethics in the aerospace industry;
- Predict and solve human factors challenges in the cockpit;
- Compile, interpret, and draw conclusions from safety data related to flight;
- Describe high speed, high altitude aerodynamics;
- Assess propulsion systems of large, complex aircraft;
- Develop a crew resource management plan;
- Identify and classify prohibited and hazardous materials;
- Demonstrate knowledge of the AS9100 strategy to analyze the Quality Assurance implementation in an Aviation company; and
- 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.