

Aviation: An Emerging Field

The United States Bureau of Commerce reports that “the outlook for the aerospace industry is very good... India and China’s infrastructure will continue to develop and with it the need for additional civil aircraft of all types. The market in these two nations demands everything from fire trucks to simulators in order to improve their basic airport infrastructure. These are just a few of the numerous opportunities that will further stimulate the aerospace industry.”

A unique program

UMES Aviation Sciences is the only 4-year, bachelor’s degree program in aviation offered in the University of Maryland system and is among least expensive 4-year institutions in the state. For Professional Pilot majors, the cost of UMES flight training is a qualified college expense for additional financial aid such as loans, grants, and scholarships.

UMES Aviation Sciences students include men and women from around the state, around the country, and around the world.



The Henry O. Tanner Airway Science Building

For more information about the program, please contact:

*Department of Engineering & Aviation Sciences
Tanner Hall
30806 University Blvd., South
University of Maryland Eastern Shore
Princess Anne, MD 21853-2199*

Phone: 410-651-6365
Fax: 410-651-6486
Website: www.umes.edu/aviation



Aerial view of the beautiful 700 acre UMES Campus.

To request an application, please contact the University of Maryland Eastern Shore Office of Admissions at 410-651-6410.



Aviation Sciences Program

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The Aviation Sciences program at the University of Maryland Eastern Shore (UMES) educates professional pilots, managers, and technical specialists for the industry and governmental sectors of aviation. Career opportunities include Professional Pilots, Air Traffic Controllers, Airport Managers, Airline Managers, Governmental Administrators, General Aviation Operations Managers, and Navigation/Communication/Flight Control System Designers and Programmers. UMES offers a Bachelor of Science in Aviation Sciences degree with a concentration in one of the following areas:

- ***Professional Pilot:*** Academic and flight training in piloting, flight safety, human factors, aerodynamics, aircraft systems, and aviation law, as well as completion of Commercial Pilot (Airplane Single-Engine Land, Instrument-Airplane) and Flight Instructor (Airplane Single Engine) certifications to prepare for a career as a professional pilot.
- ***Aviation Management:*** The Aviation Sciences and Business, Management, and Accounting Departments offer aviation and business, economics, finance, accounting, and marketing courses to prepare students for managerial positions with airports, airlines, flight operations, and the FAA.
- ***Aviation Electronics:*** The Aviation Sciences program and the Technology department created a mix of aviation and electronics courses that prepare students to design and develop electronic systems hardware for navigation, communication, and systems operation and control of aircraft in flight and from the ground.

- ***Aviation Software:*** Students in this concentration focus on aviation and computer science courses designed to prepare students to develop software for the aviation industry, ranging from applications such as flight planning or crew scheduling systems to object-oriented programming such as flight control or on-board navigation systems.

UMES degrees are accredited by the Middle States Association of Colleges and Schools and the Maryland State Board of Education. UMES is a member of both the University Aviation Association and the Aviation Accreditation Board International (AABI).

UMES Professional Pilot flight and ground training is Federal Aviation Administration (FAA) approved under Part 141 of the Federal Aviation Regulations.



Admission Requirements

The Standard UMES criteria for entrance is a High School GPA of 2.5/4.0 and a combined SAT score of 850. Indicators for success in our program include; completion of Algebra, Trigonometry, Geometry, and Physics with a SAT Math score of 480 or better.

Students admitted to UMES with less than these credentials will be conditionally enrolled in Aviation if they agree to take additional preparatory courses in mathematics and/or science. This will require an extra semester or courses during Summer or Winter Terms outside the regular school year.

Internships/Cooperative Programs

The Aviation Sciences program is active in creating relationships with industry partners and regulating bodies to provide students with practical hand-on experience in their area of concentration. Opportunities include, but are not limited to:

- Crisfield Airport
- Ocean City Airport
- Salisbury-Ocean City Regional Airport
- Piedmont (US Airways) Airlines
- NASA Wallops Island
- Maryland Aviation Administration (MAA)
- Local FAA Regional Offices
- Dwight D. Eisenhower Transportation Fellowship