



UNIVERSITY OF MARYLAND EASTERN SHORE ENGINEERING AND AVIATION SCIENCES

ENGINEERING AND AVIATION SCIENCE COMPLEX

UMES EASC DEPARTMENT PROFILE

The Department of Engineering and Aviation Sciences at University of Maryland Eastern Shore (UMES) offers a Bachelor of Science degree in General Engineering with specializations in Aerospace, Computer, Electrical, and Mechanical, and a Bachelor of Science degree in Aviation Science with concentrations in Professional Pilot and Aviation Management. The BS Engineering program was established in 2007 and is accredited by ABET since 2011. The Aviation Science program was established in the 1980's and is the only degree program in the state that offers professional pilot training.

The mission of the UMES Engineering program is to provide a program of learning opportunities that enable students to become

- Well educated professionals in general engineering with specialization in electrical, mechanical, aerospace, or computer engineering in accordance with modern standards and expectations of the field
- Intellectually curious and accomplished independent thinkers, inventors and creators of knowledge and as practitioners of general engineering with specializations
- Broadly educated in the humanities, social sciences and ethics, and sensitive and embrace value based education as well as nurture global values.

The EASC Faculty is composed of 9 Tenured/Tenure-Track and 2 Non-Tenure-Track Faculty Members and 1 Lecturers. Our faculty has earned international recognition for their achievement in education, research and service. The Fall 2021 enrollment is 220.

Students in the undergraduate engineering program can choose one of four areas of specialization:

- Aerospace Specialization
- Mechanical Specialization
- Computer Specialization
- Electrical Engineering

Students in the undergraduate aviation program can choose one of two areas of concentrations:

- Professional Pilot
- Aviation Management



UMES engineering student team won the 2nd place in the AMIE Design Challenge "How to improve mobility and safety of visually impaired individuals in public areas" during the 2020 BEYA STEM Conference.



UMES aviation science alumni at the 30th anniversary celebration to honor the founder of the engineering and airway science programs at the university.



The EASC Department research expenditures average \$0.5M per year without having support of graduate programs. Engineering faculty research is funded by federal, state, and industrial sources. External funding agencies include USDA, NSF, NASA, DOD, DoE, etc. Key areas of faculty expertise include: (i) precision agriculture, (ii) aerial drone design and operation; (iii) electromagnetic and communications; (iv) data analytics, machine learning and signal processing; (v) additive manufacturing; (vi) Micro-Electro-Mechanical System; (vii) Aviation human factor; and (viii) Aerodynamics.

More Information about the Department of Engineering and Aviation Sciences, please visit <https://www.umes.edu/engavi/>, or call 410-651-6365