Graduate study in aerospace engineering provides qualified students with opportunities to further their education with advanced courses, as well as to exercise and sharpen skills developed as part of their undergraduate training. The Department of Aerospace Engineering offers programs of study leading to the Master of Aerospace Engineering (M.A.E.), Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) degrees. The M.A.E. degree program is the most popular among online students.

Admission to the graduate program as an online student is limited to students having an undergraduate degree in aerospace or mechanical engineering from an institution of recognized standing. Degrees in other disciplines are generally not suitable for advanced study through the online program, but exceptions will be considered on a case-by-case basis.

Earning a degree through the online program will require a graduate student to take courses in a broad range of aerospace engineering courses, which may include aerodynamics, computational fluid dynamics, flight dynamics and control, orbital mechanics, propulsion, structures, and structural dynamics. Interdisciplinary study in other engineering departments and in engineering-related fields such as physics, mathematics, and computer science is also possible. Flexibility exists for each student to plan his/her individual program of study.

Requirements for M.A.E. Degree

- All applicants must submit GRE scores for the General Test and TOEFL scores for international applicants
- There is no residency, foreign language or minor requirements for this degree
- 33 semester credit hours of graduate (6000 and 7000 level) course work that must include 18 credit hours of AERO 6000 level or higher courses, such as:
  - AERO 6336 Applied Orbital Mechanics 3 hours
  - AERO 6526 Rocket Propulsion 3 hours
  - AERO 6536 Space Propulsion 3 hours
  - AERO 6626 Dynamic Simulation 3 hours
  - AERO 6636 Aerospace Applications of Composite Materials 4 hours
  - AERO 6756 Legal Aspects of Engineering Practice 3 hours
  - AERO 7106 Advanced Supersonic Aerodynamics 3 hours
  - AERO 7126 Dynamics of Viscous Fluids I 3 hours
  - AERO 7136 Dynamics of Viscous Fluids I 3 hours
  - AERO 7206 Dynamics of Flight 3 hours
  - AERO 7216 Flight Dynamics of Hypervelocity Vehicles 3 hours
  - AERO 7226 Spacecraft Attitude Dynamics and Control 3 hours
  - AERO 7336 Orbit Determination 3 hours
  - AERO 7376 Fundamentals of the Global Positioning System 3 hours
  - AERO 7516 Thrust Generation 3 hours
  - AERO 7526 Advanced Airbreathing Propulsion 3 hours
  - AERO 7536 Aereothermochemistry of Propulsion 3 hours
  - AERO 7626 Aerospace Computational Structural Analysis: Static Structures 3 hours
AERO 7636 Aerospace Computational Structural Analysis: Structural Dynamics 3 hours
AERO 7666 Aerolasticity 3 hours
AERO 7676 Introduction to Large Space Structures 3 hours
AERO 7890 Aerospace Engineering Project 3 hours

Must pass an on-campus graded presentation examination during their last semester of study

Application Procedures

- Fill out the online graduate application at app.applyyourself.com/?id=auburn-g (you will be required to create an account)
- Upload a brief statement discussing your research interest for graduate school and your current career goals
- Upload your resume
- For more information visit grad.auburn.edu

www.eng.auburn.edu/aero