Aerospace Engineering - MAE., MS, PhD

Program Degrees:

• Aerospace Engineering (MAE) (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/aerospaceengineeringmaemsphd/aerospaceengr_mae)
• Aerospace Engineering (MS) (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/aerospaceengineeringmaemsphd/aerospaceengr_ms)
• Aerospace Engineering (PhD) (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/aerospaceengineeringmaemsphd/aerospaceengr_phd)

Graduate study in aerospace engineering leads to the degrees of master of science, master of aerospace engineering and the doctor of philosophy. The graduate program prepares students for careers in the aerospace industry, in government laboratories and in academia. Studies for the PhD also are designed to produce research scholars.

Applicants should have a bachelor’s degree in aerospace engineering or its equivalent from an institution of recognized standing, plus satisfactory GRE scores. Degrees in mathematics, physics and certain other engineering disciplines may also be appropriate for entrance into the graduate program. Applications must be approved by the department’s committee on graduate study.

For the master of science, the student must complete an approved program of at least 30 credit hours in aerospace engineering or closely related supporting subjects at the 6000-level or above. The master of science degree requirements include the completion of a thesis under the supervision of a major professor and an advisory committee.

The master of aerospace engineering is a non-thesis degree for which the student must complete an approved program of at least 33 hours of course work at the 6000-level or above. A suitable project in aerospace engineering, culminating in a final written report approved by the student’s advisory committee, may be substituted for three credit hours of course work. An oral presentation is also required for the MAE degree.

For both the MS and MAE degrees, at least half of the required credit hours must be completed in aerospace engineering courses.

For the doctor of philosophy degree, the student must complete a minimum of 60 credit hours beyond the bachelor’s degree. A plan of study will be arranged on an individual basis and students may elect to specialize in the general areas of aerodynamics, computational fluid dynamics, control theory, flight dynamics, orbital mechanics, propulsion, structures or structural dynamics. A written qualifying examination and a general doctoral examination, with both written and oral parts, are required of all doctoral candidates. An oral defense of the doctoral dissertation is also required of each student.

There is no language requirement for the master’s or PhD degrees.