

Materials Engineering — MS, PhD

Degree Programs

- Materials Engineering — MS (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/materialsengineeringmmtlemsphd_major/materialsengr_ms/)
- Materials Engineering — PhD (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/materialsengineeringmmtlemsphd_major/materialsengr_phd/)

Materials Engineering offers graduate programs of instruction and research leading to the degrees of master of science (MS) and doctor of philosophy (PhD). All applicants must submit GRE scores for the General Test. Students completing all degree programs are expected to have knowledge in the following areas: mechanical properties; materials structure; materials thermodynamics; kinetics; and electrical, optical and magnetic properties of materials. There are no foreign language or minor requirements for materials engineering graduate degrees. All students must submit an approved plan of study within one year of matriculating in the program.

The MS (non-thesis) is intended for those who expect to enter the engineering profession at an advanced level or are practicing engineers wishing to gain additional fundamental knowledge in the field of materials. Those students lacking the necessary background may be required to take additional course work. The requirements for the degree are 30 credit hours including a final engineering report. The topic of the report will be agreed upon by the student and the advisory committee. Applicants must have a baccalaureate degree in engineering or science from an institution of recognized standing. Students must pass a qualifying examination prior to taking the final general comprehensive examination required by the Graduate School.

The MS is intended for those who seek advanced knowledge in materials science or engineering for a career in research or other professional practice. The applicant must have a baccalaureate degree or its equivalent in an engineering or scientific discipline from an institution of recognized standing. Those lacking the necessary background will be required to take additional course work to ensure the continuity of their educational and professional experience. The MS program consists of 30 credit hours selected from areas of study appropriate to the objectives of the applicant and includes a thesis. Students must pass a qualifying examination prior to taking the final comprehensive examination required by the Graduate School. The PhD program requires that students pass qualifying examinations (oral and written) with a greater proficiency than master's students prior to taking the comprehensive examinations. The program is arranged on an individual basis with the student's advisory committee and in accordance with Graduate School guidelines. Students admitted to the doctoral program are required to take the general comprehensive examination based on a research proposal developed by the student within two years after entering the program. The student should be prepared to be examined in all areas of materials engineering.