

Department of Materials Science & Engineering

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Introduction

□ Graduate Program

The graduate program is designed to equip students with knowledge and insights in various fields within the materials science and engineering discipline, ranging from basic scientific problems to process, synthesis and development. Topics including nano materials, bio-inspired materials, energy storage/conversion materials, IT/display related materials, electronic/magnetic materials, structural materials are among the research interests of laboratories in the Department. Students can, therefore, receive a broad education and apply it to the analysis, development, selection and use of materials for many industrial products. The Department offers courses leading to the degree of Master of Science, which normally involves two years of graduate work, and the degree of Doctor of Philosophy. The Department accepts not only students with bachelor's degrees in materials science, but also those with bachelor's degrees in physics, chemistry and other engineering fields.

□ Undergraduate Program

The Department offers a comprehensive curriculum that emphasizes creative problem-solving and self-motivated learning. Physics, chemistry and mathematics as well as other engineering courses are essential to the curriculum. In addition, the main part of the curriculum is to teach the fundamentals and phenomena associated with various material structures and properties. Based upon basic sciences, various lectures and laboratory courses are provided to help students understand the relationships between nano/microstructure of materials and mechanical, physical and chemical properties. The students are also encouraged to participate in research to experience intensive exposure to a wide spectrum of intellectual pursuits through various programs such as URP.