



About Us

The undergraduate program of the Department of Materials Engineering was founded in 1983 to offer students a BS degree. The graduate programs of MS and PhD degrees were later established in 1985 and 1994, respectively. The department provides a variety of courses for students to build knowledge for the employment in either academia or industry. Students are mandated to participate in factory practice to gain solid foundation for their future careers. Besides, there are several employment-related programs. Students who complete the courses required by these programs can receive additional certificates. Currently, the faculty includes 1 emeritus professor, 11 professors, 4 associate professors and 2 assistant professors.

Primary Research Areas

The research areas in this department are diversified, covering four classified materials, i.e. metals, ceramics, polymers, and composites. The faculty members implement research projects in both basic and applied fields. The research funds are granted from institutions of National Science Council, government institutes and private corporations, etc. The department owns laboratories in the following fields: light metals, structural materials, surface and heat treatment, fracture and surface science, powder metallurgy, electro ceramics and solid state chemistry, electronic- and bio-materials, glass materials, energy storage materials, thermo-chemistry, carbon materials, thin film surface modification, and nanotechnology.

Core Courses

Materials Science and Engineering, Physical Metallurgy, Metallurgical Thermodynamic, Electric Properties of Materials, Polymer Materials, Metallic Materials, Ceramics Materials, Mechanical Properties, X-ray Diffraction, Structure of Materials, Phase Transformations, Manufacturing Processes, Modern Physics, Introduction to Diffusion.

Course Requirements:

- Requirements for a B.S. Degree: 136 credits of courses.
- Requirements for a M.S. Degree: 41 credits of courses.
- Requirements for a Ph.D. Degree: 39 credits of courses.

Contact

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