MASTER OF SCIENCE IN ENGINEERING: CONCENTRATION IN ENERGY SYSTEMS

Admission to the Program
Applicants must hold a bachelor’s degree in engineering, or a closely related discipline, with a minimum GPA of 3.0 in upper division major classes, in addition to meeting general university requirements for graduate standing. The School of Engineering also requires two letters of recommendation from persons familiar with the student’s previous academic work or professional accomplishments. Graduate Record Exam (GRE) scores within the last three years are also required. A minimum score of 550 on the paper exam or 213 on the computer-based TOEFL is required for graduate applicants whose preparatory education was principally in a language other than English.

Advancement to Candidacy
The applicant is advanced to candidacy when the Advancement to Candidacy (ATC) has been signed and approved by the Dean of the Graduate Division.

Written English Proficiency Requirements

Level One
As a preadmission requirement, applicants must have satisfied one of the following:
1. a score of at least 4.0/6.0 on the GRE or GMAT Analytic Writing Assessment;
2. a score of at least 4.5/6.0 on the essay test of the paper-based [PBT] TOEFL (a minimum score of 24/30 on the Writing section of the Internet-based test [iBT] TOEFL);
3. a score of at least 6.5/9.0 on the IELTS writing test, or a concordant score on the Pearson Test of English.

An applicant that does not meet the above requirement may be conditionally accepted to the program but must complete SCI 614 within the first year of attendance at SF State in order to meet the Level One requirement. SCI 614 does not count toward the 30 unit MS course work requirement.

Level Two
The Level Two English Proficiency Requirement is satisfied by the completion of a written thesis (ENGR 898) or research project (ENGR 895).

Curriculum
The Master of Science in Engineering is based on 30 semester units of which at least 21 units must be earned from graduate level courses. We expect that the graduate coordinator will work closely with individual students to develop a curriculum plan that ensures academic rigor while at the same time meeting the needs of the student. The curriculum includes 12 units of required engineering courses and a minimum of 6 units of elective engineering courses. A maximum of 6 units of elective non-engineering courses may be applied to the degree requirements with the consent of the graduate coordinator, if they are consistent with the student’s overall career objectives as provided in the program of study. There are two options for the culminating experience. One option is to first take a 3-unit research course (ENGR 897), and then a 3-unit thesis course (ENGR 898). The other option is to take a 3-unit applied research project course (ENGR 895).