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Systems Technology, M.S.

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The Master of Science in Systems Technology is geared toward professionals in the field of Technology and Engineering engaged in developing systems to meet required specifications. The objective of the program is to equip students with the knowledge, skills, and cutting-edge tools to develop solutions to complex systems problems in a diversity of industries. The Master of Science in Systems Technology is administered through the Department of Industrial Technology within the College of Engineering.

Systems Technology utilizes broad-based mechanisms to address the analyses of goals and requirements needed to solve highly complex problems pertaining to both the economic and technical challenges of a total system. Systems Technology also addresses issues relating to the complete problem, often viewed as design-life issues, such as system implementation, operation, costs, design-life performance, personnel implications, and systems cost-benefit maturation.

Prerequisites

Entering students must have a degree from an accredited institution in technology, engineering technology, engineering, or a closely aligned program. Applicants without this background will also be considered; however, leveling courses will be required for those students to ensure an acceptable knowledge base. Required leveling courses will be determined by the departmental Graduate Affairs Committee on a case-by-case basis in consultation with the Department Head of Industrial Technology.

Admission will be based on assessment of the applicant's score on the Graduate Record Examination (GRE), the undergraduate academic record, and three letters of recommendation from undergraduate professors or from employers. International students are required to provide acceptable scores on either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

Course Requirements

Students may select from either a 30-hour thesis or 33-hour project option. Both options require completion of 12 hours of required coursework and 12 elective hours with a minimum GPA of 3.0. The 30-hour thesis option will be completed with 6 hours of thesis, and the 33-hour project will be completed with 3-6 hours of project courses and additional approved elective(s). All students must pass a final examination in defense of either the student's thesis or project. Six to nine elective hours may, with the approval of the graduate coordinator and the departmental Graduate Affairs Committee, be taken outside of the discipline.

Required courses may be selected from the following courses: STEC 501: Analysis in Systems Technology, STEC 502: Total Quality Control, STEC 503: Research Methods, STEC 505: Lean Manufacturing, STEC 506: Design Process, STEC 508: Project Management, STEC 510: Risk Assessment & Safety Management Systems, and STEC 524: Automated Systems Management.

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