General Characteristics

The Master of Science in Industrial and Technical Studies (MS I&TS) program is designed to prepare students for critical "hands-on" positions in companies as operations-based facilitators. The program concentrates on developing graduates who will function successfully in technically focused industrial environments that are characterized by rapid and continual change.

The core of the program offers preparation in business-based decision tools, and technically-focused industrial processes and methods. Additional courses are taken to develop depth in a focus area that is designed to meet the student's career objectives.

Prerequisites

Students are required to possess a bachelor's degree, from an accredited program in industrial technology, engineering or similar technical degree or background.

Admission Requirements

Admission to the MSI&TS program is based upon:
(a) Successful completion of an accredited undergraduate program of study;
(b) Prior academic performance, with particular emphasis placed on performance in the last 90 quarter units (60 semester units);
(c) Achievement on the General Test of the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT); and
(d) Prior work experience (desirable).

Program of Study

The program requires 45 quarter-units with 29 units of core courses and 16 units of electives. These courses collectively provide students with background information and training to:
- utilize business decision tools
- deal successfully with the impact of science and technology on industrial processes and methods
- improve productivity through the use of technology
- commercialize changed and new technologies
- understand and implement the impact of technology on business strategies
- deal with the human and cultural issues that arise in technically focused industrial settings.

Culminating Experience

In order to satisfy the culminating experience requirement, students must satisfactorily complete a comprehensive project at the end of IT 598. Other courses and/or options may be available, but must be approved in advance by the Associate Dean of Graduate Programs.

Required courses (29)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IT 510 Impact of Science and Technology</td>
<td>4</td>
</tr>
<tr>
<td>IT 512 Improving Productivity through Technology</td>
<td>4</td>
</tr>
<tr>
<td>IT 514 Commercializing Tech. Developments</td>
<td>4</td>
</tr>
<tr>
<td>IT 520 Management of Technology</td>
<td>4</td>
</tr>
<tr>
<td>IT 527 Trends and Issues in Technology</td>
<td>4</td>
</tr>
<tr>
<td>IT 598 Industrial and Technical Studies Project or other approved culminating experience</td>
<td>5</td>
</tr>
</tbody>
</table>

One course from the following (4)

- GSB 512, 523, 525, 531, 534

Advisor approved electives (16)

Selected from the following list of courses:
- IME 555, IME 575, IME 580; IT 521, IT 522, IT 523; GSB 514, GSB 526, GSB 527, GSB 533, GSB 569, GSB 571, GSB 574, GSB 577, GSB 578, GSB 587 (admission into GSB courses is subject to space availability; students in an MBA program receive priority)