### MASTERS OF SCIENCE IN INFORMATION ENGINEERING AND MANAGEMENT (MSIEM) DEGREE PLAN

GRADUATE DIVISION - SMU SCHOOL OF ENGINEERING

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<tr>
<th>SMU ID #</th>
<th>Name</th>
<th>Home Address</th>
<th>Home Phone</th>
<th>Business Address</th>
<th>Business Phone</th>
<th>E-mail Address</th>
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**CORE COURSES (21 hours)**

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<tr>
<th>Course Title</th>
<th>Instructor</th>
<th>Hours</th>
<th>Term</th>
<th>Grade</th>
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<tbody>
<tr>
<td>1. EMIS 7352 Information System Architecture</td>
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<td>2. EMIS 7353 Information System Design Strategies</td>
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<td>3. EMIS 7357 Analytics for Decision Support</td>
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<td>4. EMIS 7360 Management of Information Technologies</td>
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<td>5. EMIS 8360 Operations Research Models</td>
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**Notes:**
Core Course #5 may be either EMIS 8360 Operations Research Models or EMIS 7300 Systems Analysis Methods or EMIS 7370 Probability and Statistics for Scientists and Engineers.

**SPECIALTY COURSES (6 hours)**

1. 
2. 

*Specialty courses must be selected from the following: EMIS 7331 Data Mining, EMIS 7361 Computer Simulation Techniques, EMIS 8360 Operations Research Models, or EMIS 8356 Global Perspectives for Information Engineering.

**CONCENTRATION ELECTIVES (9 hours, approved by advisor)**

1. 
2. 
3.

TOTAL REQUIRED HOURS 30

**APPROVED:**

Advisor Date EMIS Department Chair Date Director of Graduate Division Date

**NOTE:** ANY REVISIONS MUST BE APPROVED BY ADVISOR, EMIS DEPT. CHAIR AND DIRECTOR OF GRADUATE DIVISION.

Visit [http://www.smu.edu/Lyle/Departments/EMIS/Courses](http://www.smu.edu/Lyle/Departments/EMIS/Courses) to download the Official Graduate Catalog for the Lyle School of Engineering.

6/04/2019
Example Concentrations

**Data Analytics**
EMIS 7332 Data Mining
EMIS 8331 Advanced Data Mining
EMIS 7361 Computer Simulation Techniques

**Operations**
EMIS 7365 Program and Project Management
EMIS 7366 Marketing Engineering
EMIS 7361 Computer Simulation Techniques or EMIS 8360 Operations Research Models

**Engineering Management**
EMIS 7365 Program and Project Management
EMIS 8362 Engineering Accounting
EMIS 8364 Engineering Management

**Systems Engineering**
EMIS 7301 Systems Engineering Process
EMIS 7303 Integrated Risk Management
EMIS 7305 Systems Reliability and Availability Analysis