MASTERS OF SCIENCE IN OPERATIONS RESEARCH (MSOR) DEGREE PLAN
GRADUATE DIVISION - SMU SCHOOL OF ENGINEERING

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<tr>
<th>SMU Student 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>
<th>FAX Number</th>
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**CORE COURSES (12 hours)**

1. EMIS 7357 Analytics for Decision Support 3
2. EMIS 73__ 3
3. EMIS 737__ 3
4. EMIS 8360 Operations Research Models 3

**Notes:**
- Core Course #2 can be either EMIS 7362 or EMIS 7373
- Core Course #3 can be either EMIS 7370 or EMIS 7377

**SPECIALTY (DEPTH) COURSES (9 hours, see next page for list)**

1. 3
2. 3
3. 3

**CONCENTRATION ELECTIVES (9 hours, approved by advisor, see next page for examples)**

1. 3
2. 3
3. 3

**TOTAL HOURS**


**APPROVED:**

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<tr>
<th>Advisor</th>
<th>Date</th>
<th>EMIS Department Chair</th>
<th>Date</th>
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<th>Director of Graduate Division</th>
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**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.
Specialty (Depth) Course List

- EMIS 7331 Data Mining
- EMIS 7361 Computer Simulation Techniques
- EMIS 7373 Supply Chain Operation and Control
- EMIS 8331 Advanced Data Mining
- EMIS 8361 Engineering Economics and Decision Analysis
- EMIS 8370 Stochastic Models
- EMIS 8371 Linear Programming
- EMIS 8372 (STAT 6372) Queuing Theory
- EMIS 8373 Integer Programming
- EMIS 8374 Network Flows
- EMIS 8378 Optimization Models for Decision Support
- EMIS 8380 Mathematics of Optimization
- EMIS 8381 Nonlinear Programming
- EMIS 8383 Advanced Logistics

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

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

Information Engineering
EMIS 7352 Information Systems Architecture
EMIS 7353 Information System Design Strategies
EMIS 7360 Management of Information Technologies

Optimization
EMIS 8373 Integer Programming
EMIS 8374 Network Flows
EMIS 8378 Optimization Models for Decision Support

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