

**MASTER OF SCIENCE IN INFORMATION ENGINEERING AND MANAGEMENT (MSIEM)  
DEGREE PLAN**

SMU ID #	_____	Name	_____
Home Address	_____	Home Phone	_____
Business Address	_____	Business Phone	_____
SMU E-mail	_____		_____

<b>CORE COURSES (21 hours)</b>	Course Title	Instructor	Hours	Term	Grade
1. OREM 7352	Information System Architecture		3		
2. OREM 7353	Information System Design Strategies		3		
3. OREM 7357	Analytics for Decision Support		3		
4. OREM 7360	Management of Information Technologies		3		
5. OREM 7370	Probability and Stats for Analytics		3		

**Notes:**

Core Course #5 may be either OREM 8360 Operations Research Models or OREM 7300 Systems Analysis Methods or OREM 7370 Probability and Statistics for Scientists and Engineers.

**SPECIALTY COURSES (6 hours)\***

1.			3		
2.			3		

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

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

1.			3		
2.			3		
3.			3		

**TOTAL REQUIRED HOURS** 30

APPROVED: \_\_\_\_\_  
Advisor Date

\_\_\_\_\_  
OREM Department Chair Date

\_\_\_\_\_  
Director of Graduate Division Date

Visit <http://www.smu.edu/Lyle/Departments/OREM/Courses> for the Lyle School Graduate Catalog.

<p>All Lyle graduate degrees must be completed within a 7 year window. Most courses are offered during alternating semesters to allow some flexibility. 2 sample timelines for completion are provided</p>	<p>Fall - 2 courses Spring - 2 courses Fall - 2 courses Spring - 2 courses Fall - 2 courses Graduation in Fall term (2.5 years)</p>	<p>Fall - 1 course/Spring - 1 course - year 1 - 2 courses Fall - 1 course/Spring - 1 course - year 2 - 2 courses Fall - 1 course/Spring - 1 course - year 3 - 2 courses Fall - 1 course/Spring - 1 course - year 4 - 2 courses Fall - 1 course/Spring - 1 course - year 5 - 2 courses Graduation in Spring term of year 5</p>
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## Example Concentrations

### Data Analytics

OREM 7331 Data Mining

OREM 8331 Advanced Data Mining

OREM 7361 Computer Simulation Techniques

### Operations

OREM 7365 Program and Project Management

OREM 7366 Marketing Engineering

OREM 7361 Computer Simulation Techniques or OREM 8360 Operations Research Models

### Engineering Management

OREM 7365 Program and Project Management

OREM 8362 Engineering Accounting

OREM 8364 Engineering Management

### Systems Engineering

OREM 7301 Systems Engineering Process

OREM 7303 Integrated Risk Management

OREM 7305 Systems Reliability and Availability Analysis