SMU. Lyle School of Engineering

MASTER OF SCIENCE IN OPERATIONS RESEARCH (MSOR) DEGREE PLAN

SMU Student ID # _____   Name _____

SMU email _____   Phone _____

CORE COURSES (12 hours)		Instructor	Hours	Semester	Grade
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)

			Hours		
1.			3		
2.			3		
3.			3		

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

			Hours		
1.			3		
2.			3		
3.			3		

TOTAL HOURS   30

APPROVED: _____   _____
Advisor   Date   OREM Department Chair   Date

_____
Director of Grad Studies   Date

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

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

All Lyle graduate degrees must be completed within a 7 year window. Most courses are offered during alternating semesters to allow some flexibility. Sample tracks for completion are shown below:

Fall - 2 courses
Spring - 2 courses
Fall - 2 courses
Spring - 2 courses
Fall - 2 courses
Graduation in Fall term (2.5 years)

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

06/04/21

Specialty (Depth) Course List

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