MASTERS OF SCIENCE IN OPERATIONS RESEARCH (MSOR) DEGREE PLAN
4+1 WITH BACHELORS OF SCIENCE IN MANAGEMENT SCIENCE
GRADUATE DIVISION - SMU SCHOOL OF ENGINEERING

SMU Student ID #		Name	
Home Address		Home Phone	
Business Address		Business Phone	
E-mail Address		FAX Number	

CORE COURSES (12 hours)

1. EMIS 7357	Analytics for Decision Support		3		
2. EMIS 73_			3		
3. EMIS 737_			3		
4.			3		

Notes: Core Course #2 can be either EMIS 7362 or EMIS 7373 (EMIS 7362 does not count on 4+1 degree plans of BSMS students starting Spring 2020)

Core Course #3 can be either EMIS 7370 or EMIS 7377 (EMIS 7370 does not count on 4+1 degree plans of BSMS students)

Core Course #4 is EMIS 8360 or a replacement course for EMIS 8360 due to EMIS 3360 in BSMS

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

1.			3		
2.			3		
3.			3		

Note: Due to EMIS 2361 in BSMS, 4+1 Students cannot receive credit for EMIS 8361.

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

1.			3		
2.			3		
3.			3		

TOTAL HOURS _____

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 to download the Official Graduate Catalog for the Lyle School of Engineering.

06/04/19

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

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

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