MASTERS OF SCIENCE, SYSTEMS ENGINEERING (MSSE) — DEGREE PLAN GRADUATE DIVISION – SMU LYLE SCHOOL OF ENGINEERING Engineering Management, Information & Systems Department

SMU ID #:	Name:			
Home Address:		Home Phone:		
Business Address:				
E-mail Address		Fax Phone:		
ARTICULATION COURSE(S)	Course Title	Instructor	Hrs.	Semester Grade
CORE COURS	ES (15 SCH)			
EMIS 7300	Systems Analysis Methods		3	
EMIS 7301	Systems Engineering Process		3	
EMIS 7303	Integrated Risk Management		3	
EMIS 7305	Systems Reliability, Supportability			
	& Availability Analysis		3	
EMIS 7307	Systems Integration and Test		3	
SYSTEMS ENC	GINEERING TRACK (select and che	ck one)		
System Engineering Technology Track				
Systems Engineering and Design Track				
Logistics & Supply Chain Management Track				
Systems 1	Engineering Application Track			
ELECTIVE CO	DURSES			
		TOTAL HOURS	<u>30</u>	
APPROVED	Advisor / Date	EMIS Departme	ent Hea	d / Date
	Director of Graduate			

MASTER OF SCIENCE IN SYSTEMS ENGINEERING

- 1. Thirty (30) term-credit hours of graduate courses with a minimum graduate G.P.A. of 3.00 on a 4.00 scale.
- 2. Satisfactory completion of the core curriculum encompassing five (5) courses:
 - EMIS 7300 Systems Analysis Methods
 - EMIS 7301 Systems Engineering Process
 - EMIS 7303 Integrated Risk Management
 - EMIS 7305 Systems Reliability, Supportability and Availability Analysis
 - EMIS 7307 Systems Integration and Test
- 3. Satisfactory completion of one (1) of the following tracks:

Systems Engineering Technology Track

Satisfactory completion of following five (5) courses:

- EMIS 7310 Systems Engineering Design
- EMIS 7312 Software Systems Engineering
- EMIS 7320 Systems Engineering Management
- EMIS 7330 Systems Reliability Engineering
- EMIS 7340 Logistics Systems Engineering

System Engineering and Design Track

Satisfactory completion of any five (5) of the following courses:

- CSE 7365 Introduction to Numerical Analysis
 CSE 7376 Introduction to Telecommunications
- EE 7360 Analog and Digital Control Systems
- EE 7362 Systems Analysis
- EE 7370 Communications & Information Systems
- EE 7374 Digital Image Processing
- ME 7331 Advanced Thermodynamics
- ME 7357 Optimized Mechanical Design
- ME 8361 Multivariate Control System Design

Logistics & Supply Chain Management Track

Satisfactory completion of following three (3) courses:

- EMIS 7330 Systems Reliability Engineering
- EMIS 7340 Logistics Systems Engineering
- EMIS 7362 Product & Operations Management

plus any two (2) of the following courses:

- EMIS 7364 Statistical Quality Control
- EMIS 7369 Reliability Engineering
- EMIS 8360 Operations Research Models
- EMIS 8361 Economic Decision Analysis
- EMIS 8378 Optimization Models for Decision Support

Systems Engineering Application Track

Satisfactory completion of five (5) electives, with the approval of the student's academic adviser, in one or more of the following concentrations (concentration must be in a different field from the undergraduate major):

Computer Engineering Electrical Engineering Environmental Engineering Mechanical Engineering Operations Research Systems Engineering Computer Science
Engineering Management
Information Engineering & Management
Manufacturing Engineering
Software Engineering
Telecommunications