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

SMU ID #: _____ Name: _____

Home Address: _____ Home Phone: _____

Business Address: _____ Business Phone: _____

E-mail Address _____ Fax Phone: _____

ARTICULATION COURSE(S)	Course Title	Instructor	Hrs.	Semester	Grade

CORE COURSES (15 SCH)

EMIS 7300	Systems Analysis Methods		3		
EMIS 7301	Systems Engineering Process		3		
EMIS 7303	Integrated Risk Management		3		
EMIS 7305	Systems Analysis and Optimization		3		
EMIS 7307	Systems Integration and Test		3		

***SYSTEMS ENGINEERING TRACK* (select and check one)**

- System Engineering Technology Track ☐
- Systems Engineering and Design Track ☐
- Logistics & Supply Chain Management Track ☐
- Systems Engineering Application Track ☐

ELECTIVE COURSES

TOTAL HOURS 30

APPROVED _____
Advisor / Date EMIS Department Head / Date

_____
Director of Graduate Division / Date

SEE BACK SIDE OF FORM FOR ACCEPTABLE COURSES.

02.07.03

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 Analysis and Optimization
   - 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 7358 Design of Electronic Packaging
     - 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