

**2021 - 2022**  
**Degree Plan: Master of Science in Engineering Management**  
**Manufacturing & Industrial Engineering Department**

**Name:** \_\_\_\_\_ **SID:** \_\_\_\_\_

last first middle

**Address:** \_\_\_\_\_  
Street
city
state
zip

Tel \_\_\_\_\_ E-mail \_\_\_\_\_ Advisor \_\_\_\_\_

**Delivery Mode** (check one): On-campus ☐, Online ☐, AOP ☐

**Degree Option** (check one): Thesis ☐, Non-thesis ☐

**Leveling Courses** (check one): None ☐, Required (See below) ☐

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions
MANE 3332	MANE 3332 Engineering Statistics (or MATH 4339)	3			Waived with MANE 6399
MANE 3337	MANE 3337 Engineering Economy	3			Waived with MANE 6342 or 6354
MANE 3340	MANE 3340 Fundamentals of Industrial Engineering	3			Waived with MANE 6375

**Required Courses.** (6 hours)

Course Number	Title	Hours	Semester	Grade	Comments or Substitutions
MANE 6345	Engineering Management	3			
MANE 6380	Engineering Project Management	3			

**Prescribed Electives.** (9 hours. Select one unduplicated course in each area.)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions
					Engineering Management Area
					Quality Systems Area
					Engineering Analysis Area

**Elective Courses.** (Select three unduplicated courses from graduate courses offered by the College of Engineering and Computer Science, the College of Science, or by the Robert C. Vackar College of Business and Entrepreneurship)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions

**Capstone Requirement, Thesis Option.** (Thesis Option: Take MANE 7300 and 7301)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions
MANE 7300	Thesis I				
MANE 7301	Thesis II				

**Capstone Requirement, Non-Thesis Option.** (Six hours of unduplicated courses from engineering management, quality systems, and engineering analysis areas. Course project report showing graduate level work from one of the MANE courses approved by the graduate coordinator)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions

Course Project Report Submitted ☐

**Total Number of Hours:** \_\_\_\_\_ (Both options require 30 hours.)

**Approvals:** \_\_\_\_\_  
Graduate Coordinator      Date      Department Chair      Date  
\_\_\_\_\_  
Dean, CECS      Date

**Thesis Title (if applicable):**

\_\_\_\_\_  
\_\_\_\_\_

**Advisor's name:** \_\_\_\_\_

**Co-Advisor:** \_\_\_\_\_

**Committee Members:** \_\_\_\_\_

## Manufacturing Engineering Electives

Course Number	Course Title	Engineering Management Area	Quality System Area	Engineering Analysis Area
MANE 6304	Industrial Cost Analysis	✓		✓
MANE 6311	Advanced Quality Control		✓	
MANE 6313	Design of Experiments		✓	✓
MANE 6315	Reliability Engineering		✓	✓
MANE 6319	Quality Management Systems	✓	✓	
MANE 6331	Advanced Manufacturing Planning & Control	✓		✓
MANE 6334	Optimization of Industrial Systems			✓
MANE 6337	Lean Manufacturing & Engineering Systems	✓	✓	
MANE 6340	Operations Research and Analysis	✓		✓
MANE 6342	Decision Support Systems	✓		✓
MANE 6347	Facilities Layout	✓		✓
MANE 6348	Systems Engineering			✓
MANE 6349	Advanced Work Science	✓		
MANE 6352	Manufacturing Systems Simulation			✓
MANE 6354	Advanced Engineering Economy			✓
MANE 6357	Ergonomics	✓		
MANE 6368	Logistics Engineering		✓	✓
MANE 6375	Human Factors		✓	✓
MANE 6399 Topics courses require the approval of your advisor or the graduate program coordinator to determine the area or areas that the course satisfies				

## Business Electives

ACCT 6301	Accounting for Managers
FINA 6303	Introduction to Finance
MGMT 6330	Organizational Behavior
MGMT 6331	Human Resource Management
MANE 6360	Production & Operations Mgmt
MGMT 6365	Supply Chain Management
MGMT 6372	Organizational Leadership and Change
MARK 6300	Foundations of Marketing
The inclusion of other Business courses requires the approval of your advisor or graduate coordinator	