

# EDISON STATE COLLEGE

Division of Professional and Technical Studies

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## COMMON COURSE SYLLABUS

**PROFESSOR:**

**OFFICE LOCATION:**

**E-MAIL:**

**PHONE NUMBER:**

**OFFICE HOURS:**

**SEMESTER:**

**I. COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDIT HOURS:**

MAN 3502 Operations and Supply Chain Management 3 Credits

This course provides detailed analysis of concepts in design, and control of operating systems. Students will address issues in facility location and layout, work standards, quality control, MRP, planning and scheduling applied to production and service systems.

**II. PREREQUISITES FOR THE COURSE: None  
Major restriction**

**III. GENERAL COURSE INFORMATION:**

- OPERATIONS STRATEGY
- QUALITY AND QUALITY IMPROVEMENT MANAGEMENT
- NEW PRODUCT DEVELOPMENT
- FORECASTING
- PROCESS DESIGN AND APPLICATION
- CAPACITY PLANNING
- INTEGRATED SUPPLY CHAIN MANAGEMENT

**IV. LEARNING OUTCOMES AND ASSESSMENT:**

**GENERAL EDUCATION COMPETENCIES:**

General education courses must meet at least four out of the five following outcomes. All other courses will meet one or more of these outcomes.

*Communication (COM):* To communicate effectively using standard English (written or oral).

*Critical Thinking (CT):* To demonstrate skills necessary for analysis, synthesis, and evaluation.

*Technology/Information Management (TIM):* To demonstrate the skills and use the technology necessary to collect, verify, document, and organize information from a variety of sources.

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*Global Socio-cultural Responsibility (GSR):* To identify, describe, and apply responsibilities, core civic beliefs, and values present in a diverse society.

*Scientific and Quantitative Reasoning (QR):* To identify and apply mathematical and scientific principles and methods.

**ADDITIONAL COURSE COMPETENCIES:**

At the conclusion of this course, students will be able to demonstrate the following additional competencies:

<b>LEARNING OUTCOMES</b>	<b>ASSESSMENTS</b>	<b>GENERAL EDUCATION COMPETENCY</b>
Formulate a quality improvement program for a selected company.	Reviewing a completed term project presentation, including a process plan.	CT, COM
Analyze an operations management issue and recommend a solution.	Review completed case studies.	CT,COM
Forecast the outcome of a strategic operations decision	Review completed case studies.	CT,COM,QR,TIM
Complete a break even analysis in a process redesign for new versus old process.	Exam questions, homework exercise.	COM, QR
Illustrate the use of critical path methodologies in managing projects employing the integrated supply chain management theory.	Exam questions and homework exercises.	COM, TIM
Solve a capacity planning issue by estimating requirements, developing and choosing alternatives.	Reviewing homework exercise.	COM,QR