

## FLORIDA STATE COLLEGE AT JACKSONVILLE

## COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	MAN 4504
COURSE TITLE:	Operational Decision Making
PREREQUISITE(S):	STA 2023 or QMB 2100
COREQUISITE(S):	None
STUDENT ADVISING NOTES:	Senior-level status
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	
Other _____:	
FACULTY WORKLOAD POINTS:	3
STANDARDIZED CLASS SIZE ALLOCATION:	35

## CATALOG COURSE DESCRIPTION:

This course focuses on operational decision-making management techniques to improve the processes and productivity in organizations. Discussion of quality and outcomes, efficiency, forecasting, work-flow processes, inventory control, design of goods and services, waiting lines, and critical path. Managing a project from beginning to end, including how to identify needs, and define, assign, and track items, is addressed.

SUGGESTED TEXT(S):	Jacobs, R.F. and Chase, R. B., <u>Operations and Supply Management: The Core</u> , Current Ed. McGraw-Hill,
IMPLEMENTATION DATE:	Fall Term, 2008 (20081) Proposal 2008-16
REVIEW OR MODIFICATION DATE:	Fall Term, 2009 (20101) Proposal 2009-16

COURSE TOPICS	CONTACT HOURS <u>PER TOPIC</u>
I. Introduction to Operations and Supply Management	9
A. Operations and Supply Strategy	
B. Project Management techniques	
C. Critical Path Method	
II. Operations Processes	12
A. Capacity Planning Concepts	
B. Learning Curves	
C. Break-even Analysis	
D. Waiting Line models	
E. Introduction to Statistical Quality Control	
III. Supply Chains	12
A. Sourcing opportunities and decisions	
B. Logistics-related decision making	
C. Lean manufacturing	
IV. Inventory and Material Management	12
A. Demand management and demand forecasting	
B. Time series analysis techniques	
C. Production Planning	
D. Inventory Control systems and models	
E. Material Requirements planning	



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

<b>Section 1</b> COURSE PREFIX AND NUMBER: MAN 4504	SEMESTER CREDIT HOURS (CC): <u>3</u> CONTACT HOURS (NCC):
COURSE TITLE: <b><u>Operational Decision Making</u></b>	

<b>Section 2</b> TYPE OF COURSE: (Click on the box to check all that apply)												
<table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> <b>AA Elective</b></td> <td><input type="checkbox"/> <b>AS Required Professional Course</b></td> <td><input type="checkbox"/> <b>College Prep</b></td> </tr> <tr> <td><input type="checkbox"/> <b>AS Professional Elective</b></td> <td><input type="checkbox"/> <b>AAS Required Professional Course</b></td> <td><input type="checkbox"/> <b>Technical Certificate</b></td> </tr> <tr> <td><input checked="" type="checkbox"/> <b>Other <u>BAS</u></b></td> <td><input type="checkbox"/> <b>PSAV</b></td> <td><input type="checkbox"/> <b>Apprenticeship</b></td> </tr> <tr> <td colspan="3"><input type="checkbox"/> <b>General Education: (For General Education courses, you must also complete Section 3 and Section 7)</b></td> </tr> </table>	<input type="checkbox"/> <b>AA Elective</b>	<input type="checkbox"/> <b>AS Required Professional Course</b>	<input type="checkbox"/> <b>College Prep</b>	<input type="checkbox"/> <b>AS Professional Elective</b>	<input type="checkbox"/> <b>AAS Required Professional Course</b>	<input type="checkbox"/> <b>Technical Certificate</b>	<input checked="" type="checkbox"/> <b>Other <u>BAS</u></b>	<input type="checkbox"/> <b>PSAV</b>	<input type="checkbox"/> <b>Apprenticeship</b>	<input type="checkbox"/> <b>General Education: (For General Education courses, you must also complete Section 3 and Section 7)</b>		
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<b>Section 3 (If applicable)</b> INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:						
<table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> <b>Communications</b></td> <td><input type="checkbox"/> <b>Social &amp; Behavioral Sciences</b></td> <td><input type="checkbox"/> <b>Mathematics</b></td> </tr> <tr> <td><input type="checkbox"/> <b>Natural Sciences</b></td> <td><input type="checkbox"/> <b>Humanities</b></td> <td></td> </tr> </table>	<input type="checkbox"/> <b>Communications</b>	<input type="checkbox"/> <b>Social &amp; Behavioral Sciences</b>	<input type="checkbox"/> <b>Mathematics</b>	<input type="checkbox"/> <b>Natural Sciences</b>	<input type="checkbox"/> <b>Humanities</b>	
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<b>Section 4</b> INTELLECTUAL COMPETENCIES:										
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	<b>Section 5</b> <b>LEARNING OUTCOMES</b>	<b>METHOD OF ASSESSMENT</b>
•	Understand how operations and supply strategy relate to business process and success	Demonstration or examination
•	Determine the critical path for a project	Demonstration or examination
•	Be able to use decision trees to analyze alternatives	Demonstration or examination
•	Be able to develop and interpret break-even analyses	Demonstration or examination
•	Understand waiting line (queuing) analysis and model common waiting line situations	Demonstration or examination
•	Be able to use control charts to monitor quality	Demonstration or examination
•	Understand the issues related to sourcing decisions	Demonstration or examination
•	Understand the major issues related to locating business facilities	Demonstration or examination
•	Understand and apply "just-in-time" concepts	Demonstration or examination
•	Know how to use different models to estimate demand	Demonstration or examination

<b>Section 6</b> Name of Person Completing This Form: <u>Steven DiFranco</u>	Date: <u>March 4, 2008</u>
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