Fall 2009
Faculty: Mr. Nicholson
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Office Hours: Monday 1:00-3:00 p.m. Tues 2:00-4:00 p.m. Wednesday 5:00-6:00
Class Time: Thursday Noon-3:00 p.m. Independent Study

This course is designed to provide students with an understanding of the concepts, methods and applications of production and operations management in manufacturing and service organizations. Within a framework of quality productivity and competitive advantage, topics covered include operations planning and decision making, people and technology, materials management, production planning and scheduling, and quality control. Three lecture hours per week. Prerequisite: MTH 154. Usually offered in the fall.


*COURSE OBJECTIVES, ASSESSMENT GOALS AND ASSESSMENT STRATEGIES

1. Objective: Define Operations Management
EMPLOYMENT GOALS:
- Use several sources to generate a up to date definition of Operations Management
- Generalize mission statements and their implications
- Explain vision in a organizational mission

Assessment Strategy: Exam questions, quizzes and homework. *
2. **Objective:** Apply Operations Management principles in analyzing a business

**EMPLOYMENT GOALS:**
- List and define elements of business analysis
- Given a comparative analysis of line costs analyze a business
- Write a narrative to describe what a facilities charter is.

**Assessment Strategy:** Exam questions, quizzes and homework. *

3. **Objective:** List and define elements of analysis to distinguish and describe goods vs services in modern business applications

**EMPLOYMENT GOALS:**
- Distinguish operational differences between goods and services as applied to inventory management
- Distinguish operational differences between goods and services as applied to materials management
- Explain and define RFID theory and use

**Assessment Strategy:** Exam questions, quizzes and homework. *

4. **Objective:** Predict strategic planning implications in a case study business.

**EMPLOYMENT GOALS:**
- Examine a case study and state hypothetical strategic planning procedures
- Explain and describe strategic planning to measure operations performance
- Explain forecasting and capacity planning in strategic planning terms
- Describe the process of selecting and developing new products as a strategic decision.
- State why facilities might be proposed for modification

**Assessment Strategy:** Exam questions, quizzes and homework. *

5. **Objective:** Explain Operations strategy implementation

**EMPLOYMENT GOALS:**
- Explain and describe how you would design and implement a master schedule
- Describe and explain components of materials requirements planning
- Formulate a scenario using performance measurement in project planning, planning and control
- Map out a strong supplier partnership
- Explain process thinking and process documentation

**Assessment Strategy:** Exam questions, quizzes and homework. *

6. **Objective:** Enumerate and explain benefits associated with computer aided design and concurrent product design.
EMPLOYMENT GOALS:
- discuss computer simulation as related to decision analysis in operations management
- Enumerate and explain benefits associated with Rapid Prototyping.

Assessment Strategy: Exam questions, quizzes and homework. *

*Addresses GEOs 1,2,3,4,5,6,7

Content Topics to be Included:
1. Define Operations Management
2. Using Operations Management principles in analyzing a business
3. Goods and services
4. Strategic planning.
5. Operations
6. Processes and process types
7. Strategies
8. Degrees of customer contact
9. Design quality
10. Conformance quality
11. Time as a competitive advantage
12. Competing on speed and agility
13. Structured product development
14. Sensor based supply chains
15. New product delays
16. Mixed model/ versus clean sheet ramp-up
17. Value creation
18. Support for value creation
19. Process thinking
20. Process flexibility
21. Continuous process improvement
22. Facility planning
23. Capacity planning
24. Vertical Integration
25. Mix flexibility
26. Adjusting capacity to market conditions
27. Demand forcasts
28. Timing strategy
29. Bullwhip effect
30. Inventory management
31. Structuring a supply chain
32. Supplier partnerships
Course Requirements:

This is an independent study class. Each week students enrolled will present a chapter and 5 vocabulary words defined to all present. While still in class each Thursday the material presented and vocabulary list will be emailed to Mr. Nicholson. 
dnicholson@worwic.edu

Grading/Exams:
Grading will be determined on the basis of tests, assignments, homework assignments, quizzes, Electronic case study project, class meetings and final exam. This course will include a comprehensive final exam.

Final grade will be weighted as follows:
Class Independent Reports 45%
Midterm Exam 10%
Question based Assignments 10%
Vocabulary words submitted 10%
Electronic Case Study Project 10%
Final Exam 15%

Grading Scale
90 - 100% = A
80 - <90% = B
70 - <80% = C
60 - <70% = D

Attendance Policy
Absence / Lateness - NOT ALLOWED
ARRANGE TO GET NOTES FROM ANOTHER STUDENT.
School is like a job. It is a commitment and absence or lateness will not be tolerated as it would not be tolerated in the workplace. If you miss or are late for classes you miss important material and you will fall behind. It is YOUR RESPONSIBILITY to make up any missed class work.

Case Study/electronic Project
A electronic assignment will be produced on the topic of Operations Management

Late Assignment Policy
All homework, laboratories and reading assignments must be submitted on time.
NO CREDIT FOR LATE WORK. If you do not do your homework, labs and reading, you will not be able to keep up with the class. I cannot check that you have done your reading but it will show up in your work and your ability to keep up with the class.
Quizzes and Tests
If you miss a test, it will be the teacher’s decision to determine if it should be made up. If you miss a quiz you will receive ZERO (0) points for that quiz, no makeup quizzes will be given.

All Quizzes and Tests will be based on the Text, Independent Study Material, office meeting exercises and handouts.

*ACADEMIC HONESTY POLICY
Students are required to maintain a high level of academic performance. Cheating and plagiarism are defined in Wor-Wic's Student Conduct Policy found in the College Catalog. Infractions of this policy will result in the student's failure for the assignment or test.

*Addresses GEO 8

How to get the highest grade on your paper
Discuss and show your mastery of the material for this course 5%
Discuss and show the use of higher level skill in achieving the requirements of this course 5%
Demonstrate your ability to think beyond the limits of this course by writing information that ties this course to your whole program or career goal. 10%
Be sure to read what you wrote. It is often the case to receive a paper that the student did not bother to read after typing it. It is easy to tell. 25%
Cover page 5%
Intro paragraph-main idea 15%
Body-length and content 25%
Summary 5%
Spelling 5%
Papers are written in APA style which is defined on Wor-Wics’ website.