Syllabus for BU 407
Production and Operations Management (3 Cr.)

Dr. Steelquist
Fall 2001, MWF 10 00, H 107

COURSE OBJECTIVE

To understand the importance and techniques of managing the operations and production functions of manufacturing and service companies. Both quantitative methods and non-quantitative considerations will be studied. Specific objectives are understanding of

1. The operations function
2. Process design
3. Quality processes
4. Facilities design
5. Materials control
6. Scheduling

OUTLINE

Introduction	Chapt 1
Operations Strategy	Chapt 2
Process Design	Chapt 3
Technology Manageme	Chapt 4
Work Measurement	Chapt 5
Quality Management	Chapt 6 & 7
MIDTERM	
Facilities	Chapt 8, 9, & 10
Materials Control	Chapt 11 & 13
Production Scheduling	Chapt 14
MID	
MRP	Chapt 15
JIT	Chapt 16
Operations Scheduling	Chapt 17
Project Management	Chapt 18
FINAL	

GRADING

Midterm	30%.
Final	30'/a
Projects	30%
Quizzes	10%

The final letter grade will be assigned by totaling the points from each graded item. No letter grades will be given for individual items. Unless notified otherwise, exams and quizzes are open book Attendance is expected and will be reflected by quiz grades. There will be no make up for missed quizzes! The lowest quiz grade will be dropped. Quizzes may be either announced or unannounced. Do enough problems to insure that you understand each problem type. An exam can be made up My if the instructor is notified before the exam. The final will be cumulative with an emphasis on the material after the last midterm.

TEXT

Krajewski, L., Ri an, L., Operations Management Strategy and Analysis, 5th. Edition, Addison-Wesley, Reading Ma., 1998.

OFFICE HOURS

Mon, Wed, Fri I :00 P.M. and by request in Keiffer, 14 FF Phone 739-4602 steelq_chaminade.edu

Operations Management Projects

OBJECTIVE

The purpose of operations management projects is to give you experience in identifying, analyzing, solving, and presenting solutions to operational problems. You may pick your own project, but it must deal with some aspect of operations. You must use appropriate quantitative techniques. Actual problems are preferred, but prepared cases are acceptable if they are extensive enough for an extended analysis and are supported my multiple research sources.

PROCEDURE

1. Submit a one-paragraph description of your project for approval before starting work
2. Start your work with a careful statement about the organization. This statement is usually refined and modified during analysis.
3. Do a complete and logical analysis of your operation.
4. Define a problem and a proposed solution to improve the operation including recommended steps for implementation.
5. Prepare your written report to include a comprehensive description of the operation of your organization. Based on this description discuss an important problem, a complete analysis of that problem with the appropriate quantitative analysis, and your proposed solution. Provide supporting data, computations, charts, and assumptions.
6. Prepare a verbal report with the same format. Be prepared to answer questions on your project beyond the scope of the presentation -
7. For group projects all members of a group will receive the same grade unless a consensus within the group and instructor's approval determines otherwise.

ASSIGNMENT

Project #1. An individual project is due Sept. 24, 2001. with presentations that week Target length 5-7 pages and 4-6 minutes.

Project #2. A group project with 3 to 5 members. This project is due Nov. 30, 2041 with presentations to follow. Target length 10-20 pages and 15-25 minutes.