

## Syllabus DSCI 304 – Spring 2006

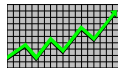
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Office Hours: 8 – 9 MWF  
11 – 12 MWF  
or by appointment



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## Course Catalog Description

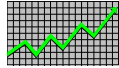
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This course will address planning and control of production and service operations with emphasis on demand forecasting, design of production systems, aggregate planning, inventory management, and quality assurance.

Additional topics will include just-in-time production, cellular manufacturing, flexible manufacturing systems, robotics, computer aided design, and quality circles.

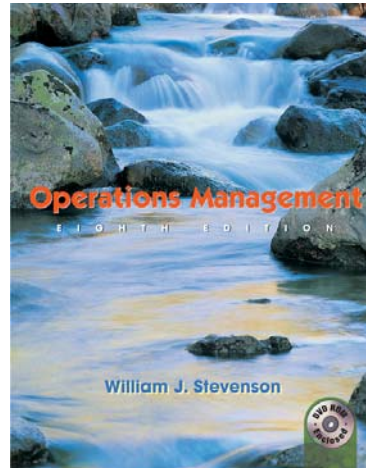
Students will use appropriate computer software (EXCEL) to gain experience with decision techniques.

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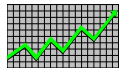


## Required Text

Operations Management, William J. Stevenson, 8<sup>th</sup> Edition, 2005



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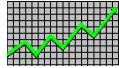
## Prerequisite Skills

MATH 105 or MATH 231  
MATH 104 or MATH 216  
DSCI 232  
MGMT 301

A working knowledge of the following concepts:

- . EXCEL
- . Descriptive statistics
- . Probability analysis
- . Binomial probability distribution
- . Poisson probability distribution
- . Normal probability distribution
- . Sampling techniques

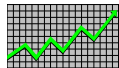
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## Course Objectives

- . To expose students to the operations function of an organization and the associated management issues
- . To provide students with the quantitative tools with which to analyze operations management issues
- . To provide academic experience (including computer applications) to address these issues

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## Grading Scale & Grade Composition

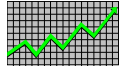
The grade for this course will be evaluated based on the total points earned on 4 Exams plus Multiple Choice quizzes on each chapter. There will not be a cumulative final examination.

MC Quizzes	200 points
Exam 1	50 points
Exam 2	50 points
Exam 3	50 points
Exam 4	50 points

See Grade Lookup for quiz points.

A	- 360 to 400
B+	- 352 to 359
B	- 320 to 351
C+	- 312 to 319
C	- 280 to 311
D	- 240 to 279
F	- 0 to 240

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## Exams

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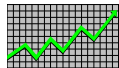
DSCI 304 is qualitative (Chapter material and classroom presentation) and quantitative (problem-solving course).

**The qualitative portion of each examination will approximate 50% of the examination total. The quantitative portion of each examination will be focused on examples either directly from or similar to homework assignments.**

Each examination will be thorough and may require the use of computer software (**EXCEL**) to assist in solving problems.

A calculator will be useful in the class to check out computerized formulas for accuracy; however, calculators will be too time-consuming to utilize in examination situations.

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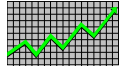
## Homework

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**Homework is an integral part of this course. All homework assignments are expected and required. Do not pick and choose which problems you do. Do them all.** Timely completion of homework will reinforce concepts which have been presented in classroom lectures.

Homework will not be picked up and graded. It will be my assumption that unless you ask for help that you understand the material. It is your responsibility to seek help with issues which you need reinforcement. You will find in your business careers a similar philosophy.

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## Homework (continued)

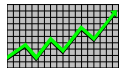
If you are having difficulty with lecture material or with a particular homework problem, you should do the following:

- . Review the classroom example
- . Visit with me during my office hours or by appointment.

Failure to organize your work (notebooks, computer diskettes, etc) and keep up on a timely basis with assignments will result in a poor grade for this course.

*You should allow approximately 2 hours of review and/or homework time for each 1 hour of classroom presentation.*

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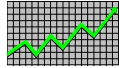


## Attendance Policy

You are near the end of your business careers and are expected to attend class unless there is *good excuse* for the absence. *Three (3) absences (one week of class) are allowed for this purpose.* It is not necessary to explain the reason for the missed class because it is automatically assumed that it is for a valid legitimate reason.

*If you miss more than the allowed number above you will be withdrawn from the course. This policy is non-negotiable*

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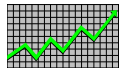
## Honor Code

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Cheating in any form is **NOT** allowed and will be rewarded, at a **MINIMUM**, with a grade of **F** in the course.

If copying is involved, both parties will be judged equally guilty.

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## Make-Up Exams

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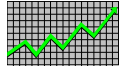
Exams will not be made up for any reason.

Missed exams will result in a grade of **ZERO**.

If you know in advance of a legitimate reason for missing an exam you should discuss this with me. We may be able to work out a solution in this situation.

Legitimate excuses for missing an exam, which are brought to my attention after the exam time will be considered; however, my judgement in this situation will be final and non-negotiable.

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## Grading Errors

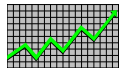
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The professor's judgement with respect to grading exams, homework, etc. is not debatable in this course.

However, if an error has been made in grading your exam, the mistake will gladly be corrected.

However, it is your responsibility to detect such a mistake and bring it to my attention on the day of the exam is returned to you. You forfeit this right to appeal errors by being absent when the exam is returned, or by waiting until later in the semester to contact me.

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## Basic Requirements

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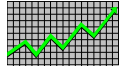
Print out a copy of the lecture notes from the College of Charleston website [www.cofc.edu/~hodgesh](http://www.cofc.edu/~hodgesh) and bring them to class with you each day. You should print these 3 per page to allow for notes during each lecture.

Keep a binder, folder, or notebook for your homework, lecture presentations, class notes and handouts. Bring it to class each day.

Bring a calculator to class each day and know how to operate it properly.

Keep all of you assignments in an organized, orderly format. Easy reference to homework may be necessary for timely completion of an EXAM.

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## Basic Requirements (continued)

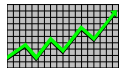
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Do all homework assignments. Do not try to guess at which ones are the most important. Any homework assignment is a potential EXAM question.

If you use a computer that is not on campus, ensure that the software is compatible with the classroom software.

You will be using EXCEL and WORD. If you are using EXCEL you may have to perform an **add-in** to make sure the classroom software works properly. You can see the EXCEL Basics lessons on my website to learn how to do this.

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## Computer Facilities

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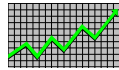
The College of Charleston is equipped with state of the art computer facilities for your use.

The PC Network may be accessed at numerous campus locations.

A convenient location near my office is in the JC Long Building, 9 Liberty Street, Room 404.

The Microsoft Office software that will be utilized in this class is available in this lab.

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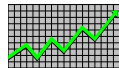
## Ask For Help

If you need assistance, see me during my office hours.

If my office hours are not convenient, I can be available by appointment.

I do not mind receiving important calls at home.

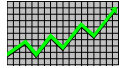
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## Exams & Course Outline

	Hodges	Stevenson
Exam 1 Project Management	18	17
Production/Operations Management	1	1
Productivity, Competitiveness and Strategy	2	2
Decision Theory	2S	5S
Forecasting	3	3
Product and Service Design	4	4
Exam 2 Process Selection, Capacity Planning & Facilities Layout	5,6	5,6
Linear Programming	5S	6S
Design of Work Systems	7	7
Location Planning and Analysis	8	8
The Transportation Problem	8S	8S

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## Exams & Course Outline

	Hodges	Stevenson
Exam 3 Management of Quality	9,11	9
Quality Control	10	10
Acceptance Sampling	10S	10S
Aggregate Planning	12	12
Exam 4 Inventory Management	13	11
Material Requirements Planning	14	15
Just In Time Systems	15	14
Supply Chain Management	16	16

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