Course Outline

Instructor: John Hironaka, P.E.
Office: 250 AOB IV
Office Phone: 530-752-7371
Email: jdhironaka@ucdavis.edu

Office Hours: Tuesday: 4:30 pm – 6:00 pm

Class Website: SmartSite

Lectures: Tuesday @ 6:10 pm – 9:00 pm  6 Olson Hall

TA: Anu Mahendran
Office: 161 AOB
Office Hours: Monday @ 2:00 pm – 3:30 pm
Email: amahendran@ucdavis.edu

Discussion Sections: Section 1  161 AOB IV  Friday 10:00 am – 10:50 am
Section 2  161 AOB IV  Friday 11:00 am – 11:50 am

Irwin with CD

Course Description

An introduction to the basic concepts and methods used to manage the production and
distribution of goods and services. Problems, issues and decisions presented are related to
forecasting, queuing, location strategy, quality, inventory, material requirements planning, just-
in-time, learning curves, aggregate planning, scheduling, and supply chain management.

Course Objectives

1. To provide students with knowledge of the fundamental issues that impact the performance
   of components of the supply chain and the supply chain itself.

2. To introduce students to quantitative techniques for managing production, distribution and
   provision of services within the supply chain.
**Preparation for Lecture**

The textbook can be difficult to read and follow. The attached schedule indicates which chapters we will cover during each class session. The best way to prepare for the lecture is to read the assigned chapters before prior to the lecture.

**Lecture Slides or Notes/Course Material**

PowerPoint lecture slides or notes and other course material will be available on the class SmartSite.

**Grades**

The course grade will be determined based on your percentage of total possible points with the usual distribution of 90%, 80% and 70% for A, B, and C grade respectively. Depending on the class performance, the course grade may be based on a curve. Any student earning 90% or above on the course is guaranteed an “A” grade and pluses and minuses will be distributed within the grade categories based on a curve at the discretion of the instructor.

<table>
<thead>
<tr>
<th>Homework Assignments</th>
<th>20%</th>
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</thead>
<tbody>
<tr>
<td>Midterms</td>
<td>30%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>50%</td>
</tr>
</tbody>
</table>

**Policies**

1. Coffee, water and soft drinks are fine in class, however, no food allowed.
2. Use of cell phones, pagers, iPods, MP3 players, or other electronic devices are not allowed during the class, i.e., no photographing, recording, reading/sending text messages/emails allowed during class. Turn off or silence your cell phones and pagers prior to the start of lecture.
3. The use of personal computers during class sessions is not allowed unless you clear it with instructor. If you use a personal computer in class you will be relegated to the front row.
4. I expect all of us to be professional in our behavior and respectful of each other not only in class but in our campus community as well.
5. The university has adopted policies with regard to inappropriate conduct by students. These policies are found on a University’s webpage. These policies address, among other topics, plagiarism and cheating. The instructor follows the University’s policies.
6. No make-up exams will be given.
7. All assignments are due at the beginning of the class, i.e., 6:10 pm. Late assignments will be accepted and are due at 10:00 am on Friday of that week at the beginning of first discussion section. A penalty of 25% will be assessed against the earned score. All assignments are to be hand delivered; no e-mail, fax, et cetera will be accepted.
8. Talking during class and tardiness are not tolerated and are disruptive to the class and me.
9. During the course of the class, there may be some changes to the syllabus. In that event, you will be notified by email or on the class website.
# Class Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>Read Chapter(s)</th>
<th>Problems Due</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept 30</td>
<td>Introduction, Forecasting</td>
<td>1, 3</td>
<td></td>
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</tr>
<tr>
<td>Oct 7</td>
<td>Quality</td>
<td>9, 10</td>
<td>3.2, 3, 7, 15</td>
<td>20</td>
</tr>
<tr>
<td>Oct 14</td>
<td>Location Analysis, Learning Curves, Review</td>
<td>8, 7</td>
<td>9.1, 2, 6; 10.1, 3, 8, 10</td>
<td>30</td>
</tr>
<tr>
<td>Oct 21</td>
<td><strong>Midterm (3, 7S, 8, 9, 10), MRP</strong></td>
<td>14</td>
<td>8.9, 13</td>
<td>150, 20</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>7S.5, 18</td>
<td></td>
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<tr>
<td>Oct 28</td>
<td>Inventory</td>
<td>12</td>
<td>14.1, 3, 6, 14, 16</td>
<td>25</td>
</tr>
<tr>
<td>Nov 4</td>
<td>JIT, Queuing</td>
<td>15, 18</td>
<td>12.5, 7, 13, 28, 36</td>
<td>25</td>
</tr>
<tr>
<td>Nov 11</td>
<td>Aggregate Planning, Review</td>
<td>13</td>
<td>15.5, Taking Stock 1, 2, 3; 18.1, 4, 7, 8, 9</td>
<td>35</td>
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<tr>
<td>Nov 18</td>
<td><strong>Midterm (12, 14, 15, 18)</strong></td>
<td>13</td>
<td>13.1, 2, 3, 13, 18</td>
<td>150, 25</td>
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<tr>
<td>Nov 25</td>
<td>Scheduling</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec 4</td>
<td>Supply Chain Management, Review</td>
<td>11</td>
<td>16.4, 6, 7, 19</td>
<td>20</td>
</tr>
<tr>
<td>Dec 11</td>
<td><strong>Comprehensive Final Examination</strong></td>
<td></td>
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<td>500</td>
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**Note:** This schedule may be revised at the instructor’s discretion.