Course: SCIM 373
Instructor: Andrew Blevins
Supply Chain Team Ldr
AstenJohnson, Inc
Email: Andrew.blevins@astenjohnson.com

Supply Chain Planning and Analysis

Term: Fall Semester 2017
Class Times: T 5:30 – 8:15pm; Beatty 212.
Web: Oaks
Office Hours: by appointment & email

Course Description
Covers the introduction of analysis required for efficient and effective supply chain planning, with an emphasis on real life examples and various models used in developing supply chain systems.

Prerequisites: DSCI 304 – Production & Operations Management

Course Objectives
This course is an opportunity for you to gain
- An understanding of how quantitative methods can be applied to decision-making and planning in supply chain systems.
- An understanding of how to leverage supply chain systems into a competitive advantage.
- Skills for interpreting and reporting analytical results for various audiences.
- The ability to utilize concepts to use data to drive change within the supply chain.
- A better understanding of the financial impacts of efficient supply chains and the potential disasters of out of control supply chain systems.
- Introduction of lean concepts throughout the supply chain.

Course Materials
Text: Pearson Course Create Text: SCIM 373 - Supply Chain Planning and Analysis - ISBN 1269822845
Software: Microsoft Excel 2010 or later with Analysis Tool-Pack and Solver add-ins installed.

Website: The course website will contain class notes and homework assignments. Material will be available the Friday before class on Tuesday. You should check the website regularly and print the notes for subsequent class sessions, as you desire.

Course Policies
The course grade will be comprised of the following:
- 20% Homework/Special Assignment
- 25% Weekly Quizzes
- 25% Mid-Term Examination (In-class)
- 30% Final Exam

You are allowed to drop your lowest quiz.

Final Grades will be assigned based on the following [(+/‐) scores may be given to your advantage based on your relative performance or at the instructor’s discretion]]:

A 90 – 100
<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>B</td>
<td>80 – 89</td>
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<tr>
<td>C</td>
<td>70 – 79</td>
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<tr>
<td>D</td>
<td>60 – 69</td>
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<tr>
<td>F</td>
<td>0 – 59</td>
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**Attendance/Participation.** Students are expected to be active participants in class daily, which requires attendance! You are allowed one absence. Any additional absences will impact your final grade 5 points each time.

**Grades/Assessments:**
**Exams:**
- The Mid-term Exam may contain multiple-choice, short-answer, and questions requiring the use of Microsoft Excel software based on material from class and the assigned portions of the text. All exams will be completed by the individual student without any assistance from other students whatsoever.
- If you are unable to take an Exam at the scheduled time, arrangements must be made PRIOR to the Exam.

**Homework and Special Problem Assignments:**
Homework and special problem assignments are designed to help you learn and practice the fundamental mechanics of the methods and concepts discussed in class. Working together with others in discussing the homework problems and general solution approaches is encouraged; however, copying another student’s solution or Excel file is a violation of the CofC Honor Code.

**Cell Phones, PDAs, Computers, etc.:**
Please turn off cell phones, PDAs, iPods, and all other electronic devices and remove any headphones and ear buds before class starts. All electronic devices, except calculators, are prohibited during in-class exams. Using an iPad, laptop, or tablet computer during class to take notes, etc. is encouraged; however, please refrain from using any of these devices for any non-class activities such as checking or sending email, texting, web browsing, etc. Please turn off your computer if you are not using it for class-related activities.

**Students with Disabilities**
If there is a student in the class who has a documented disability and has been approved to receive accommodations through the Center for Disability Services / SNAP, please come and discuss this with me.

**E-Mail Communication:**
When you send me an e-mail, make sure that the subject line is clear. For example, SCIM 373 Question...

**Academic Honesty:**
College of Charleston, as a community of scholarship, is also a community of honor. Faculty, staff, administrators, and students work together to achieve the highest standards of honesty and integrity. Academic dishonesty is a serious offense at C Of C because it threatens the quality of scholarship and defrauds those who depend on knowledge and integrity. Academic dishonesty includes:
- a) Cheating—Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
b) Fabrication—Intentional falsification of information or citation in an academic exercise.

c) Plagiarism—Intentionally or knowingly representing the words or ideas of someone else as one’s own in an academic exercise.

d) Facilitation of Academic Dishonesty—Intentionally or knowingly helping or attempting to help someone else to commit an act of academic dishonesty, such as knowingly allowing another to copy information during an examination or other academic exercise.

Exams are closed book and closed notes and may include the use of Excel. You may use calculators, but not PDAs, cell phones, or other electronic devices unless specifically permitted. All exams should be done individually. Working together with other students on homework and in-class exercises is permitted and encouraged; however, copying another student’s homework, Excel file, or in-class exercise is NOT permitted. Excel files for all assignments must be individually created. Copying Excel files from other students and submitting them for assignments as your own is a violation of the CofC honor code.

**Miscellaneous:**

You are encouraged to keep up with the course requirements. If you experience difficulties with Excel or other software, the course website, course material, or any other aspect of the course, please let me know immediately so that we can work together to successfully resolve any problems PROACTIVELY.

**Course Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8/29</td>
<td>Introduction; Understanding the Supply Chain;</td>
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<tr>
<td>9/5</td>
<td>Aligning Supply Chain Strategies; Supply Chain Simulation – Dot Game</td>
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<tr>
<td>9/12</td>
<td>Supply Chain Drivers and Metrics/KPIs; <strong>Guest Speaker</strong></td>
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<td>9/19</td>
<td>Intro. Linear Programming (LP)1 for SCM Applications; LP 1- Mix, and Constraint Management Problems;</td>
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<td>9/26</td>
<td>Strategic Outsourcing Decisions ; LP2 – Make vs. Buy and Vehicle Loading Problems; <strong>Guest Speaker</strong></td>
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<tr>
<td>10/3</td>
<td>Multi-period Aggregate Forecast Planning Applications; Intro SC Network Design – Facility Location &amp; Planning;</td>
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<tr>
<td>10/10</td>
<td>Network Design – Facility Location and Capacity Allocation; <strong>Mid-term Exam 1</strong></td>
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<td>10/17</td>
<td><strong>Fall Break</strong></td>
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<td>10/24</td>
<td>Transportation and Network Models; <strong>Guest Speaker</strong></td>
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<tr>
<td>10/31</td>
<td>Managing Economies of Scale: Inventory Location Decisions</td>
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<td>11/7</td>
<td>Managing SC Uncertainty: Safety Inventory and the Bullwhip Effect</td>
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<tr>
<td>11/14</td>
<td>Coordination in a Supply Chain; <strong>Guest Speaker</strong></td>
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<td>11/21</td>
<td>Special Assignment</td>
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<tr>
<td>11/28</td>
<td>Managing Product Availability/Tailored Sourcing</td>
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<td>12/9</td>
<td><strong>Final Exam</strong></td>
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