SCM-402 Fall 2015

INTRODUCTION TO SUPPLY CHAIN MANAGEMENT
Syllabus

Table of Contents

<table>
<thead>
<tr>
<th>Created By</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kwasi Amoako-Gyampah, PhD, Instructor</td>
<td>Fall 2015</td>
</tr>
</tbody>
</table>

1.0 General Information .................................................................................................................. 2
2.0 Course Schedule .......................................................................................................................... 6
3.0 Learning Approach ....................................................................................................................... 8
4.0 Biographical Sketch Of Faculty Member ...................................................................................... 9
5.0 Helpful Internet .......................................................................................................................... 10
6.0 Course Governance and Expectations ............................................................................................ 11
1.0 General Information

START Date:
August 17, 2015

PLACE AND TIME:
This is an on-line “blended learning” course. There are no regularly scheduled “face-to-face” class sessions. However, instructor is available to meet students face to face through an appointment system.

The blended learning approach incorporates standard e-learning with added “Collaborate” sessions on as needed Collaborate schedule. Collaborate Sessions will be recorded to allow access by students unable to participate in “live” sessions.

Collaborate sessions will be used to present / clarify course concepts and allow opportunity for sharing and dialogue between the Professor and Participants.

Computer demonstrations and simulations may be used to demonstrate and evaluate understanding of mathematical concepts and problems.

Students will be expected to read the reference textbook and other materials to develop an understanding of core concepts. Discussion Board posts will enable students to seek answers from colleagues and the instructor.

FACULTY MEMBER:
Kwasi Amoako-Gyampah, PhD
Professor
Department of Information Systems and Supply Chain Management
480 Bryan Building, UNCG
Phone Numbers: (336) 334-5739
Email: kwasi_amoako@uncg.edu

APPOINTMENT TIME:
Office hours by appointment. Please send an e-mail message or call to discuss any problems or suggestions concerning the course.

BRIEF DESCRIPTION OF THE COURSE:
This course presents the basic principles of the core knowledge related to the field of supply chain management. It provides insight into the complex, cross-functional elements of demand and supply planning and execution. The content of this course is designed to provide foundational knowledge of Supply Chain Management to enable the student to pursue further study in the field.

CREDITS:
3.0 credit hours

FOR WHOM PLANNED:
Required course for the baccalaureate Supply Chain Management Undergraduate Major

STUDENT LEARNING OUTCOMES:
On completion of this course, students will be able to:

- Explain the role of Supply Chain Management (SCM) in the attainment of company goals to balance demand and supply, meet customer service objectives and minimize total supply chain cost.

- Identify the concepts and processes used for demand management and forecasting and be able to apply these concepts to different types of businesses.

- Analyze demand data / patterns to establish optimum forecasting process and complete statistical forecasts for a cross section of practical examples.

- Identify the core planning and execution processes used to create and deliver products and services to market from purchasing through manufacturing & distribution to delivery to the final customer.

- Analyze practical data and use theories to solve problems related to the core planning and execution processes used to create and deliver products and services to market from purchasing through manufacturing & distribution to delivery to the final customer.

- Identify the links and applicability of key continuous improvement processes to demand and supply planning and execution.

**REQUIRED TEXTS, READINGS, & REFERENCES:**


Supplemental readings and other materials relevant to this course are accessible through our Canvas online course management software. You must have an active UNCG email account to access Canvas. Several folders will be created within Canvas that will provide you with the structure and delivery mechanisms used in the course.

It is also important that participants keep abreast of current events that are relevant to the subject of economic development, and attempt to relate them to course materials.

**PRE-REQUISITE COURSES AND REQUIREMENTS**

Admission to an approved program or permission of the instructor.

This course relies very heavily on basic Excel skills so you need to spend time to review your Excel skills as soon as possible. Almost all of the homework assignments will have to be done using Excel.

Self-motivation and commitment to learning represent key requirements for success.

Students can expect the faculty member to be equally motivated and supportive in this learning environment.
Students should possess excellent written communication skills. Grammar and spelling should be thoroughly proofed prior to sending all written communications & assignments.

**EVALUATION AND GRADING:**

**Knowledge**
- Recognizes previously learned material
- Assessed by: Multiple Choice and / or Open-Ended & Essay Questions
- Mid-Term and Final Exam

**Comprehension**
- Grasps meaning of material
- Assessed by: Multiple Choice and / or Open-Ended & Essay Questions
- Mid-Term and Final Exam

**Application**
- Applies principles to new situations similar to learning situation
- Assessed by: Mathematical analysis using prototype data.
- Mid-Term and Final Exam

**Analysis**
- Separates material into component parts, clearly recognizing relationships
- Assessed by: Multiple Choice and / or Open-Ended & Essay Questions
- Mid-Term and Final Exam

**Synthesis**
- Combines elements and parts into a new whole
- Assessed by: Essay Questions and Case Studies
- Discussion Board and Case Analysis

**Evaluation**
- Evaluates material according to set of specific criteria
- Assessed by: Essay Questions and Case Studies
- Discussion Board and Case Analysis

The following criteria will apply to the grading of assignments.

A: Student’s work reflects a very deep understanding the different aspects of supply chain management as evidenced by quiz assignments, homework, tests and performance on the final exam. The student’s work often incorporates outstanding features beyond average expectations.

B: Student’s work meets expectations and reflects a good understanding of the material being covered. The student is able to integrate important concepts of supply chain management in the completion of assignments, and performance on exams.

C: Important expected components missing in assignments, homework and exams.

The course will be letter graded. A student’s final grade will depend on: Assignments, case analyses, web discussions, and final exam.

**Grading Scale**

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>A</td>
<td>182 and above</td>
</tr>
<tr>
<td>A-</td>
<td>178-181</td>
</tr>
<tr>
<td>B+</td>
<td>172-177</td>
</tr>
<tr>
<td>B</td>
<td>162-171</td>
</tr>
<tr>
<td>B-</td>
<td>158-161</td>
</tr>
<tr>
<td>C+</td>
<td>152-157</td>
</tr>
<tr>
<td>C</td>
<td>144-151</td>
</tr>
<tr>
<td>C-</td>
<td>138-143</td>
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Grading Percentages:
The course grade will be calculated using the following weights:

- Quizzes and Homework: 70 points
- Mid-Term Exam: 60 points
- Final Exam: 70 points
- Total: 200 points

COURSE GRADING METHODOLOGY:

**Quizzes & Homework Assignments**: Quizzes made up of True/False and multiple choice questions will be assigned. Also homework based on quantitative concepts covered in the course will also be assigned. These will be used throughout the course to test comprehension of information presented in each Course Module. Quizzes and homework assignments will be administered through Canvas.

**Mid-Term and Final Exams**: The Mid-Term and Final Exam will be administered through Canvas. Exams will, in general, not be rescheduled for anyone (so as to protect the integrity of the tests). Thus you need to note the dates for the two exams on your calendar right at the beginning of the semester and make appropriate arrangements for any potential conflicts at your workplace or family commitments.

**Continuous Improvement of Course**: Students are given the opportunity to provide feedback on the course content and instruction. This is a critical element and 100% participation is expected. Use the Course Feedback forum to provide feedback on the course – what you like, what you don’t, suggestions for improvement, etc. You may post anonymously or self-identify, whichever you prefer.

**ACADEMIC HONOR CODE**: Each student is required to sign the Academic Integrity Policy on all work submitted for the course. Refer to UNCG Undergraduate Bulletin.

**STUDENT RESPONSIBILITIES**: The student is expected to actively participate in all electronic discussions and complete all assignments on schedule. Failure to participate will result in a lowering of a student’s average. Participation based upon informed synthesis of reading material (assigned as well as other retrieved information by the students from relevant publications) is expected.

Again this is course relies very heavily on basic Excel skills so you need to spend time to review your Excel skills as soon as possible. Almost all of the homework assignments will have to be done using Excel.
2.0 Course Schedule

Module 01 - Week of August 17:
Introduction to Supply Chain Management
Text Chapter 1: Introduction to Materials Management

Module 02 - Week of August 24:
Demand Management and Forecasting
Text Chapter 8: Forecasting

Module 03 - Week of August 31:
Sales and Operations Planning
Text Chapter 2: Production Planning System

Module 04 - Week of September 07:
Master Production Scheduling
Text Chapter 3: Master Scheduling

Module 05 - Week of September 14:
Material Requirements Planning
Text Chapter 4: Material Requirements Planning

Module 06 - Week of September 21:
Capacity Planning & Management
Text Chapter 5: Capacity Management

Module 07 - Week of September 28:
Production Scheduling and Execution
Text Chapter 6: Production Activity Control

Week of October 5: Study for Mid-term exam; Mid-Term Exam on October 8

October 12 & 13: Fall Break

Module 08 - Week of October 19:
Supplier Relationship Management and Purchasing
Text Chapter 7: Purchasing

Module 09 - Week of October 26:
Inventory Management
Text Chapter 9: Inventory Fundamentals

Module 10 - Week of November 4:
Order Point Planning and Other Independent Demand Planning Processes
Text Chapter 10: Order Quantities
Text Chapter 11: Independent Demand Ordering Systems
Module 11 - Weeks of November 11 & 18:
Warehouse and Distribution System Management
Text Chapter 12: Physical Inventory and Warehouse Management
Text Chapter 13: Physical Distribution
Root Beer Game Simulation – Team Event (on-line)

Module 12 - Week of November 25-26:
Continuous Improvement and Lean Manufacturing
Text Chapter 15: Lean Production
Text Chapter 16: Total Quality Management

Week of December 2
Review and Final Exam – Final Exam on Friday December 4, 2015.
3.0 Learning Approach

BLENDENNED (INTERACTIVE) LEARNING APPROACH
The Professor will utilize a blended learning approach even though this is primarily an e-learning experience. This combines: self-learning (reading textbook / other materials in a devoted website); practice problems, homework assignments and quizzes; and Collaborate Sessions.

The professor will facilitate learning through the venues mentioned above and is also available for individual or group consultation as required.

The textbook and published articles, will be used as primary reference materials.

A list of pertinent topics is included in the Schedule in Section 2.0 above.

Note: the syllabus provides a general plan for the course; deviations / alterations may be necessary as the course progresses. However, the Professor will maintain a 2-week “frozen period” (no critical changes in assignments 2 weeks prior to due date) to ensure stability in the program.
4.0 Biographical Sketch of Faculty Member

Kwasi Amoako-Gyampah is a Professor in the Department of Information Systems & Supply Chain Management, Bryan School of Business & Economics, at the University of North Carolina at Greensboro, USA. He obtained his doctorate from the University of Cincinnati and has an MBA for Virginia Tech and MS (Engineering) from University of Missouri-Rolla, and a B.Sc (Hons) from the University of Science & Technology, Kumasi, Ghana. His research has published in journals such as Information & Management, European Journal of Operational Research, Journal of Operations Management, OMEGA, International Journal of Production Research, International Journal of Operations & Production Management, International Journal of Production Economics, Information Systems Frontiers, Computers in Human Behavior, and others. Prior to pursuing graduate studies, he worked as a quality control engineer at Kaiser Aluminum & Chemical Company in Ghana. He has done consulting projects for Allegiance Healthcare, Guilford Mills, and the Department of Navy. He regularly teaches graduate level classes in Supply Chain Management, Project Management, Quantitative Methods, and Managing Technology & Innovation. He can be reached at kwasi_amoako@uncg.edu
5.0  Helpful Internet

The following websites may be useful for your reference and to enhance your learning experience:

www.apics.org
www.triadapics.org
www.supplychainlink.com
www.inddist.com
www.logisticsworld.com
www.supply-chain.org
www.gartner.com
www.nistevo.com
www.scdigest.com
6.0 Course Governance and Expectations

PREAMBLE – OUR COMMITMENT
The administration, faculty, staff, and students of the Bryan School of Business and Economics at UNCG are committed to professional and ethical behavior in all areas of their academic and professional lives. The principles and expectations established in this document and the addendums encompass many aspects of professional behavior and integrity. It is not an exhaustive list, since change is part of life both inside and outside the university.

This set of Guidelines constitutes a statement of values and expectations; concerns and issues are still best addressed by conversations between the individual faculty member and student. If further discussions are necessary, please contact the faculty member’s Department Head.

EXPECTATION OF ALL LEARNING COMMUNITY MEMBERS
The first sentence of the UNCG Student Code of Conduct is: “Members of the UNCG community respect fundamental principles for ensuring a campus environment conducive to peaceful and productive living and study. These principles include five values: honesty, trust, fairness, respect, and responsibility.” All university members (students, faculty, and staff) have a responsibility to uphold these five values, and this is true in the Bryan classroom environment and related academic activities.

EXPECTATIONS OF STUDENTS
Students in the Bryan School must conform to all existing principles found in UNCG’s Academic Integrity Policy and the Student Code of Conduct. Further details may be found at the following sites: "http://academicintegrity.uncg.edu/complete/" and "http://studentconduct.uncg.edu/policy/code/" The attached addendum lists specific expectations of students regarding the learning process and environment at the Bryan School.

EXPECTATIONS OF FACULTY
Faculty in the Bryan School must conform to all existing UNCG codes and policies, and their teaching roles are of particular relevance to these Guidelines (see "http://provost.uncg.edu/faculty/h_section4.asp" for further details). The attached addendum lists specific expectations of faculty regarding the learning process and environment at the Bryan School.

Footnote 1: This document does not constitute a binding contract between students and the University.

Footnote 2: Portions of these Guidelines were modeled after the Professional Standards developed by the College of Business at Illinois State University. We thank them for their contributions!