SCM-402 Spring 2019

INTRODUCTION TO SUPPLY CHAIN MANAGEMENT
Syllabus

Table of Contents

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:
January 14, 2019

PLACE AND TIME:
This is an on-line 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 learning approach for this course incorporates standard e-learning with added “WebEX” sessions on as needed basis. WebEx sessions (and recordings) will be used to present / clarify course concepts and allow opportunity for sharing and dialogue between the Professor and course participants. WebEx Sessions will be recorded to allow access by students unable to participate in “live” sessions.

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:
Electronic office hours 11:00 a.m. – 12:30 p.m., Tuesdays and Thursdays; Please send an e-mail message 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:

Text: “Introduction to Materials Management”: Pearson, Prentice Hall, Arnold, Chapman, and Clive, 8th Edition; The text is available for purchase at the UNCG Bookstore, located in the Elliott University Center. It is also available from online bookstores or direct from APICS.

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 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:

SCM-402_Spring 2019_Syllabus
| **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**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>228 and above</td>
</tr>
<tr>
<td>A-</td>
<td>222-227</td>
</tr>
<tr>
<td>B+</td>
<td>215-221</td>
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<tr>
<td>B</td>
<td>200-214</td>
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<tr>
<td>C+</td>
<td>190-195</td>
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<tr>
<td>D-</td>
<td>145-149</td>
</tr>
<tr>
<td>F</td>
<td>&lt;145</td>
</tr>
</tbody>
</table>

**Grading components:**

SCM-402_Spring 2019_Syllabus
The course grade will be calculated using the following assignment points:

- Quizzes ........................................ 40 points
- Homework ........................................ 40 points
- Mid-Term Exam............................... 60 points
- Exam.2 ........................................... 70 points
- SAP Assignment ............................. 40 points
- **Total** ........................................ 250 points

You are reminded that Canvas is only a repository for grades and that final grades will be non the relative weights shown above.

**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 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 Exam 2 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 to meet other family commitments.

**SAP Assignment:** This will be a brief introduction to the SAP software with assignments designed to get students to understand the business process behind the software. Details will be provided as the semester progresses.

**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 grade. 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 January 14:
Introduction to Supply Chain Management
Text Chapter 1: Introduction to Materials Management

Module 02 - Week of January 21:
Demand Management and Forecasting
Text Chapter 8: Forecasting

Module 03 - Week of January 28
Sales and Operations Planning
Text Chapter 2: Production Planning System

Module 04 - Week of February 4:
Master Production Scheduling
Text Chapter 3: Master Scheduling

Module 05 - Week of February 11:
Capacity Planning & Management
Text Chapter 5: Capacity Management

Module 06 - Week of February 18:
Production Scheduling and Execution
Text Chapter 6: Production Activity Control

Module 07 - Week of February 25:
Supplier Relationship Management and Purchasing
Text Chapter 7: Purchasing

Week of March 4-March 10 Spring Break:

Week of March 11: Study for Mid-term exam; Mid-Term Exam on Thursday March 14/ Friday March 15. Exam will be available from 2:05 pm Thursday March 14 through 2:05 p.m. Friday, March 15.

Module 08 – Week of March 18:
Text Chapter 9: Inventory Management- Fundamentals
Introduction to SAP
SAP Assignment #1- Navigation

Module 08 continued - Week of March 25
Order Point Planning and Other Independent Demand Planning Processes

Module 08 continued - Week of April 1
Text Chapter 10: Order Quantities
Text Chapter 11: Independent Demand Ordering Systems
SAP Assignment #2- SOP and Forecasting

Module 09- Week of April 8
Material Requirements Planning
Text Chapter 4: Material Requirements Planning
**SAP Assignment #3**

**Module 10 - Week of April 15:**
Materials Requirement Planning (MRP) Continued

**Module 11 - Week of April 22:**
Warehouse and Distribution System Management
Text Chapter 12: Physical Inventory and Warehouse Management
**SAP Assignment #4- Due April 26, 2019**

**Week of April 29: Review and Exam 2 —**
Exam 2 on Friday, May 3, 2019, 12:05 p.m. through 12:30 p.m. Saturday, May 4, 2019.
3.0 Learning Approach

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

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.
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 Missouri University of Science & Technology, and a BSc (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
4.0 Helpful Internet sources

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
5.0 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!