

University of North Carolina at Greensboro
Bryan School of Business and Economics
Department of Information Systems and Supply Chain Management

SCM-402 Fall 2018

INTRODUCTION TO SUPPLY CHAIN MANAGEMENT
Syllabus



Created By	Date	
Kwasi Amoako-Gyampah, PhD, Instructor	Fall 2018	

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1.0 General Information

START Date:

August 14, 2018

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:

Office hours 11:00 a.m. – 12:30 p.m., Tuesdays and Thursdays; and 11:00 a.m.- 12:00 noon, Wednesdays, or 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:

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- 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 7th edition might be OK (ISBN 978-0-13-137670-0). 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 attempt to relate them to course materials.

PRE-REQUISITE COURSES AND REQUIREMENTS

Admission to an approved program or permission of the instructor.

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.

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:

<u>Knowledge</u>	Recognizes previously learned material Assessed by: Multiple Choice and / or Open-Ended & Essay Questions Mid-Term and Final Exam
<u>Comprehension</u>	Grasps meaning of material Assessed by: Multiple Choice and / or Open-Ended & Essay Questions Mid-Term and Final Exam
<u>Application</u>	Applies principles to new situations similar to learning situation Assessed by: Mathematical analysis using prototype data. Mid-Term and Final Exam
<u>Analysis</u>	Separates material into component parts, clearly recognizing relationships Assessed by: Multiple Choice and / or Open-Ended & Essay Questions Mid-Term and Final Exam
<u>Synthesis</u>	Combines elements and parts into a new whole Assessed by: Essay Questions and Case Studies Discussion Board and Case Analysis
<u>Evaluation</u>	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

228 and above = A	222-227 = A-		
215-221 = B+	200-214 = B	196-199 = B-	
190-195 = C+	180-189 = C	172-179 = C-	
165-171 = D+	150-164 = D	145-149 = D-	<145 = F

Grading Percentages:

The course grade will be calculated using the following assignment points:

Quizzes	40 points
Homework	40 points
Mid-Term Exam.....	60 points
Final Exam.....	70 points
SAP Assignment	40 points
Total.....	250 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 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 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 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 14:

Introduction to Supply Chain Management

Text Chapter 1: Introduction to Materials Management

Module 02 - Week of August 20:

Demand Management and Forecasting

Text Chapter 8: Forecasting

Module 03 - Week of August 27:

Sales and Operations Planning

Text Chapter 2: Production Planning System

Module 04 - Week of September 3:

Master Production Scheduling

Text Chapter 3: Master Scheduling

Module 05 - Week of September 10:

Capacity Planning & Management

Text Chapter 5: Capacity Management

Module 06 - Week of September 17:

Production Scheduling and Execution

Text Chapter 6: Production Activity Control

Module 07 - Week of September 24:

Supplier Relationship Management and Purchasing

Text Chapter 7: Purchasing

Week of October 1: Study for Mid-term exam; **Mid-Term Exam on Thursday October 4/
Friday October 5. Exam will be available from 12:05 Thursday October 4 through 12:30
p.m. Friday, October 5.**

October 8 & 9- Fall Break; October 10-14; Introduction to SAP

Module 08 – October 15-21:

Text Chapter 9: Inventory Management- Fundamentals

SAP Assignment #1

Module 08 continued - Week of October 22-28

Order Point Planning and Other Independent Demand Planning Processes

Text Chapter 10: Order Quantities

Text Chapter 11: Independent Demand Ordering Systems

SAP Assignment #2

Module 09- Week of October 29-November 4

Material Requirements Planning

Text Chapter 4: Material Requirements Planning

SAP Assignment #3

Module 10 - Week of Week of November 5-11:
Materials Requirement Planning (MRP) Continued
~~SAP Assignment#4 and Final report~~

Module 11 - Weeks o November 12-18:
Warehouse and Distribution System Management
Text Chapter 12: Physical Inventory and Warehouse Management
Text Chapter 13: Physical Distribution

~~SAP Assignment #2- Due November 19, 2018.~~

~~**Module 12 – November 19 & 20**
Text Chapter 16: Total Quality Management~~

~~**Module 13 – Week of November 26:**
Continuous Improvement and Lean Manufacturing~~

~~Text Chapter15: Lean Production~~

Review and Final Exam – Final Exam on **Friday, November 30, 2018, 12:05 p.m. through 12:30 p.m. Saturday, December 1, 2018.**

3.0 Learning Approach

BLENDED (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/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 [University of Missouri-Rolla](#), 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

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!