Concordia University

Concordia Institute for Information Systems Engineering

INSE 6300/4/UU - Quality Assurance in Supply Chain Management (Winter 2007)

Time:	Thursday, 17h45 – 20h15
Classroom:	FG-355
Office hours:	Wednesday, 10h00 – 12h00 or by appointment (Office: EV.7.630)

Instructor:	Dr. J. Bentahar E-mail: bentahar@ciise.concordia.ca Tel: 514-848-2424 Ext. 5382

Course Web:	http://www.ciise.concordia.ca/~bentahar/inse6300.html You can use this web site to get lecture notes, useful links, assignments, and other useful information. It is highly advised to visit the web site regularly.

Textbooks: **Required**	**1)** *Supply Chain Management: Strategy, Planning, and Operation.* (3rd Edition), 2006 Sunil Chopra, Peter Meindl Prentice Hall ISBN: 0-13-173042-8 This book covers the main issues of supply chain management and quality assurance principals, including supply chain drivers and metrics, supply chain network design, planning demand, managing inventories, managing uncertainty, and coordination.
Suggested Readings	**2)** *Designing and Managing the Supply Chain: Concepts, Strategies, and Case Studies* David Simchi-Levi, Philip Kaminsky, Edith Simchi-Levi McGraw-Hill, 2006 ISBN: 0-07-249256-2 This book is a reference in the supply chain community. It covers a comprehensive breadth of supply chain principals and challenging issues, particularly inventory management, supply chain integration, and decision support systems for supply chain management.

Description: This course is about quality assurance in Supply Chain Management. It introduces supply chain principals and quality assurance issues in supply chain systems. The following issues will be covered: definition, models, and evolution of supply chain management, quality attributes, information technology and decision support systems, e-business transaction, inventory management, verification and security issues, strategic alliances, sourcing decisions, etc. Students will discover various concepts and techniques developed in recent research about supply chain management and learn to apply them through lectures, readings, assignment, and team project. Several materials from different sources will be used, particularly scientific papers.

Prerequisites: There is no prerequisite for this course.
Good knowledge in probability, statistics, and mathematics will be helpful.

Requirements:

- One individual/group assignment
- One in-class mid-term exam (closed book)
- One in-class final exam (closed book)
- One team project (2~3 members, presentation + report)

Grading:

- One assignment: 20%
- Mid-term exam: 25%
- Final exam: 25%
- Project (presentation + report): 15% + 15% = 30%

Project and assignment will be graded based on originality, clarity, and comprehensiveness. In-class exams will test students' knowledge and ability to understand, analyze, and synthesize concepts.

Important dates:

- Project proposal: February 01, 2007
- Assignment: February 08, 2007
- Mid-term: February 15, 2007
- Final exam: March 29, 2007
- Project presentation: April 12, 2007
- Project report: April 12, 2007

Useful Links:	Supply Chain and Quality Management http://www.12manage.com/i_sq.html Supply Chain Today http://www.supplychaintoday.com The World of Logistics http://www.logisticsworld.com/ American Society for Quality http://www.asq.org
Submission:	All assignments are at the beginning of class. Late assignments will incur a penalty of 20% deduction (up to 100%). No points will be given to the assignment submitted 5 days after the due date.
Policies:	Cheating and plagiarisms will be very seriously considered and handled according to the Concordia Academic Code of Conduct (can be found in the graduate student handbook) without exception. Please note the schedule of the exams. A makeup test will be given only in the case of a serious illness or emergency. You must contact the instructor before the exam. Only written and proved documentations are accepted for verification purposes.

Tentative Schedule: The table below provides a brief summary of some of the material that will be covered during the term. The schedule may change slightly.

LECTURE	TOPIC	EVENT
1	Introduction to Supply Chain Management	
2	Supply Chain Performance, Metrics, and Quality Attributes	
3	Quality Assurance in Designing the Supply Chain Network	
4	Inventory Management and the Value of Information	
5	Managing Uncertainty in a Supply Chain	Project Proposal
6	Supply Chain Coordination and Bullwhip Effect	Assignment
7	Supply Chain Integration and the Impact of E-Business	Midterm
8	Information Technology in a Supply Chain	
9	E-business, E-marketplaces, E-auction and Supply Chain Management	
10	Sourcing Decisions in a Supply Chain	
11	Decision-Support Systems for Supply Chain Management	
12	Strategic Alliance and Customer Value	
13	Final Exam + Project	Final Exam