

American University of Beirut
Faculty of Engineering and Architecture
Engineering Management Program

ENMG 611: Supply Chain Design and Management
Spring 2017

Instructor:

Hussein Tarhini, Ph.D.

email: hussein.tarhini@aub.edu.lb

Office Hours: MW:4:00 PM-5:30s pm or by appointment

Course Description:

This course covers several supply chain design and management concepts including planning, production systems, inventory control, operations scheduling, facility layout, strategic collaboration, and information technology. It focuses on using analytical tools to design and implement competitive Supply chain systems.

Textbook:

-Steven Nahmias: Production and Operations Analysis, 6th edition

-Ravi Ravindran and Donald Warsing, Jr., Supply Chain Engineering Models and Applications, CRC Press.

-Gerard Cachon and Christian Terwiesch, Matching Supply with Demand: An Introduction to Operations Management, McGraw-Hill/Irwin, 2nd Edition.

Tentative schedule:

- Week 1: Inventory Control with known demand
- Week 2: Inventory Control with known demand
- Week 3: Inventory control with unknown demand
- Week 4: Supply Chain Contracts
- Week 5: Location and distribution decisions in supply chain Management
- Week 6: Transportation in supply chain management
- Week 7: Review for Midterm, **Midterm I**
- Week 8: Issues in Supply Chain Management
- Week 9: Issues in Supply Chain Management

- Week 10: Issues in Supply Chain Management
- Week 11: Facility Location and Network Design
- Week 12: Facility Location and Network Design
- **Final Exam: Comprehensive**

Assignments:

Students are encouraged to solve the assignments and to discuss their solution with each other and the instructor. However, each student must independently write and submit one assignment.

Grading

- Assignments: 15%
- Midterm: 40%
- Final: 45%

University Rules and Regulations:

Students are advised to review all relevant university rules and regulations including those related to attendance, cheating, plagiarism, misconduct, and academic integrity, among many others. It shall be expected that strict enforcement of these rules and regulations will be exercised.