

Department of Industrial and Systems Engineering
689 Course Syllabus

Number and title of course: "INEN 689 Competing on Information Flows in Supply Chains"

Hours: Theory 3, Practice 0, Credits 3

Prerequisites: INEN 615, or instructor's permission

Description of course: The course focuses on how information can be used to gain competitive advantages in supply chain management. A major part of the course is dedicated to a discussion of new identification technologies such as RFID and their relation to information management in supply chains. A strong emphasis is placed on becoming familiar with the existing body of literature in this field. The project component has students develop a research proposal that ideally will lead directly to thesis research. This course will be most suitable for PhD students and Masters students who have elected the thesis option.

Textbook: none required; but "Foundations of stochastic inventory theory" by Evan Porteus is strongly recommended. Additional references provided during first lecture.

Course outline by major topics:

	Th	Pr
1. The supply chain as a system	3	0
2. Review of standard inventory control models	3	0
3. Value of advance demand information	3	0
4. Value of information sharing	4	0
5. Automatic identification technologies / RFID	3	0
6. Adoption and proliferation issues of RFID	4	0
7. Improved inventory control policies	4	0
8. Product visibility in retail	4	0
9. Counterfeit protection	3	0
10. Transportation security and e-pedigrees	4	0
11. Asset tracking	4	0
12. Project presentations	6	0
Totals	45	0

Tentative grade basis: Participation and homework 20%, Presentations 30%, Project 50%

Date: 05/16/06

Course Instructor: G. M. Gaukler

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"An Aggie does not lie, cheat, or steal or tolerate those who do." It is the responsibility of students and instructors to help maintain scholastic integrity at the university by refusing to participate in or tolerate dishonesty. (<http://www.tamu.edu/aggiehonor>)