

ISE 642 – Warehousing and Distribution Systems

Spring 2004

Course: ISE 642 – Warehousing and Distribution Systems - 4 credit hours

03592

Catalog description:

Quantitative and operational approach to the design of the total receiving, storage, and retrieval system including packaging, palletizing, storage, material handling, order picking, shipping, facility sizing and layout, information systems, and operating policy.

Sessions: M-W 1:10-2:00, 194 Stocker

Instructor: Dale Masel *masel@ohio.edu*

273 Stocker Center, 593-1541

Office hours: Tues & Thurs – 1:00-2:00, Weds – 9:00-11:00

Textbooks: None—Selected readings will be provided

Course objectives:

This course will focus on the design of warehouse facilities and the management of warehouse operations. Some background information will be presented regarding issues that arise in the operations of a distribution center, but it is expected that students with no background in warehousing will need to do additional reading for a complete understanding. A suggested text is "World-Class Warehousing and Material Handling" by Edward H. Frazelle (2002).

An emphasis in this course will be on the modeling of distribution operations. Development of accurate and realistic models is essential to managing and optimizing a warehouse system. Models will include deterministic and stochastic models; research articles will be used as a basis for the discussion of how the models are developed and how they can be extended.

Grading policy:

Assignments:

• Homework assignments.....	25%
• Course project.....	15%
• One midterm in class—closed book.....	30%
• Final exam—closed-book (Monday, June 7 at 12:20 pm).....	30%
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	100%

Grading Scale:

A	90-100%	D	60-69%
B	80-89%	F	0-59%
C	70-79%		

Attendance policy:

Attendance will not be taken for lecture classes, but students are expected to be present for all class periods and are responsible for all material covered in class.

Academic misconduct:

Cheating will not be tolerated. If you copy from another person, plagiarize, turn in someone else's work as your own, or otherwise fail to maintain a high standard of academic honesty, you will receive a 0 on the assignment and the case will be referred to the university judiciary office.

Quarterly Schedule:

Wk.	Date	Topics
1	3/29	Introduction to distribution centers
2	4/5	Storage Design
3	4/12	Storage Management
4	4/19	Order Picking
5	4/26	Order Picking – Routing
6	5/3	Order Picking – Scheduling
7	5/10	Sortation and order consolidation
8	5/17	Shipping
9	5/24	Cross docking distribution centers
10	5/31	Project presentations