

ISyE 6202 – Warehousing Systems

1. web page: www.isye.gatech.edu/~jclu (there will be a web page for this class in May 2009)
 2. Instructor: Professor J.-C. Lu
 3. Class Time: TBA
 4. Location: TBA
 5. Textbook: *Warehouse & Distribution Science* [version 0.89](#) (pdf format, 5MB), released 20 August 2008. Please visit the following web page for a free textbook written by Professors Bartholdi and Steve Hackman
http://www2.isye.gatech.edu/people/faculty/John_Bartholdi/wh/book/editions/history.html
Reference: Several research papers including Ph.D. theses
 6. Office Hours: TBA
 7. Office: TBA
 8. E-mail: jclu@isye.gatech.edu (preferred channel of communication)
 9. Telephone number: ?
 10. Teaching Assistant: None
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Note #1: We will review students' background and needs in the beginning of the summer session for setting class teaching goals. In particular, this class will emphasize on getting students hands-on experience through various class projects. There is also possible **leadership training** activities from team project(s) and class presentation. For some students who have desire to continue their graduate studies towards their Ph.D. degree, there are opportunities for reading research publications and conducting some small research projects.

Tentative Schedule for Class Materials:

First four weeks: Chapters 1 to 7 (Exam #1)

Subjects: Warehouse in the supply chain, pallets, storage and equipment for pallets and small parts, EOQ, safety stock, reorder points, inventory pooling, warehouse activity profiling, data mining for warehouse management, warehouse activity simulation, carton-picking.

Second four weeks: Chapters 8 to 11 (Exam #2)

Subjects: Warehouse layout, layout for piece-picking: quantity stored and SKUs stored, carton slotting (and software tool), order picking, pick-path optimization, warehouse benchmarking, inventory accuracy and cycle-counting.

Third three weeks: Chapter 12 to 16 (Exam #3)

Subjects: Automation, crossdocking, crossdocking networks, warehouse in the supply-chain distribution systems, warehousing around the world. This component will focus on class project studies.

Note: References will be included in the class teaching and exam.

Grade Distribution: Exam #1 (25%), Exam #2 (30%), Exam #3 (25%) and Homework (20%)

Take-home exams and homework assignments will include computer laboratory assignments.