

## I.E. 2100: SUPPLY CHAIN ANALYSIS (Fall Term 2019)

- INSTRUCTOR:** Dr. Jayant Rajgopal (1032 BEH; 624-9840; [rajgopal@pitt.edu](mailto:rajgopal@pitt.edu))
- LECTURE:** Thursday, 5:20-8:00 PM (with a break from 6:35 to 6:45); 1045 BEH  
Course Web Site: <http://www.pitt.edu/~jrclass/sca/>
- OFFICE HOURS:** 4:00-5:00 P.M., Mon., Wed., or by prior appointment. Walk-in consultations are always welcome!
- TEXT:** *Production & Operations Analysis*, by Steven Nahmias & Tava Lennon Olsen, Waveland Press. (recommended)  
An extensive set of notes/handouts/ overheads for the course have been developed and will be made accessible (as *pdf* files) from the web site. Please print out these notes and **bring them with you to every single class session.**
- REFERENCES:** *Supply Chain Engineering*, by Ravindran and Warsing; CRC Press.  
(all on reserve in the Engineering Library) *Supply Chain Management*, by Chopra and Meindl; Prentice-Hall.  
*Designing & Managing the Supply Chain*, by Simchi-Levi, Kaminsky and Simchi-Levi; McGraw-Hill.
- COURSE OUTLINE:** This course provides an overview of supply chain analysis with an emphasis on operations and a strong quantitative/analytical orientation. Topics to be covered include a general introduction to supply chains and operations; supply chain strategies; sourcing decisions; demand forecasting; aggregate production planning; managing supply and demand; production and inventory control systems; dealing with uncertainty; distribution networks; coordination & integration. Some topics may be deleted and other added depending on time constraints.  
  
NOTE: There's really no single book that covers just the topics mentioned above adequately. Students are therefore expected to attend lectures and make use of class notes, and to also supplement the recommended text with readings from other books such as the references listed above.

**PREREQUISITES:** IE 2000, IE 2001, IE 2005

**GRADING:** Final grades will be based upon two examinations that will count for 75% of the final grade, while homework and class participation, will count for the remaining 25%.

**COURSE  
POLICIES:**

- Attendance at all class sessions is required and students are expected to come prepared for each lecture by reading the appropriate material (as noted in the topical outline) **prior** to class.
- Late assignments will **NOT** be accepted and all assignments, projects, examinations, etc. must be completed/taken at the scheduled time. Exceptions will not be made unless there are highly extenuating circumstances - please do not put the instructor in an embarrassing position by asking for routine extensions.
- Professional classroom demeanor is required; in particular, **all cell phones and personal electronic devices must remain off during lecture.**
- **I take academic integrity very seriously** and cheating or academic dishonesty in **any** form will result in a grade of *F* for the course; there will be **no** exceptions to this policy. I have no objections if you wish to study with your friends or work together on homework - in fact, I encourage you to do so! However, you must write up *on your own* any work that you turn in, so that I can ensure that you understand your answers/solutions.
- If you have any disability that requires special accommodation please contact the instructor as well as Disability Resources and Services, 216 William Pitt Union, (412) 648-7890, **at the beginning of the term.** DRS will verify your disability and determine reasonable accommodations for this course. A comprehensive description of the services of that office can be obtained at <http://www.drs.pitt.edu>.
- As per university policy, to ensure the free and open discussion of ideas, students may not record classroom lectures, discussion and/or activities without the advance written permission of the instructor, and any such recording properly approved in advance can be used solely for the student's own private use.