INSY 5250/6250/6256 – Scheduling & Project Management

Fall 2011

Instructor: Dr. Chase Murray
E-mail: All e-mail communication will be handled via Blackboard.
Office: 3301F Shelby
Office Hours: Tues. 1:00 – 2:00pm, Wed. 3:00 – 4:00pm, or by appointment.

<table>
<thead>
<tr>
<th>Teaching Assistant</th>
<th>E-mail</th>
<th>Office</th>
<th>Office Hours</th>
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</thead>
<tbody>
<tr>
<td>Afua Dankyi-Anyinam</td>
<td><a href="mailto:akd0020@auburn.edu">akd0020@auburn.edu</a></td>
<td>3341 Shelby</td>
<td>Mon/Fri 12:30 – 1:30</td>
</tr>
<tr>
<td>Joseph Ekong</td>
<td><a href="mailto:jje0003@auburn.edu">jje0003@auburn.edu</a></td>
<td>2319 Shelby</td>
<td>Mon/Wed 11:30 – 12:30</td>
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- **Credit Hours:** 3
- **Course Website:** [https://blackboard.auburn.edu/webct/logon/935088531011](https://blackboard.auburn.edu/webct/logon/935088531011)
  Blackboard will be used for all course grades, for e-mail, material distribution, etc.
- **Lecture Schedule:** TR 11:00am – 12:15pm, Shelby 1120.

Course Objectives:
1. Learn fundamental scheduling theory and algorithms for “basic” problem classes.
2. Expand on these fundamentals by developing and coding algorithms for problems lacking “easy” solutions.
3. Relate project management to scheduling theory.

**2011 Catalog Description:** Sequencing and scheduling methods and models are presented, with special emphasis on scheduling and controlling projects.

Required Material:
- **Software:** MATLAB

Prerequisites:
- INSY 3410 – Deterministic Operations Research, or equivalent.
Course Requirements/Evaluation: Students will be evaluated based on the following:

<table>
<thead>
<tr>
<th>Item</th>
<th>Date (Subject to Change)</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework</td>
<td>Miscellaneous</td>
<td>35%</td>
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<tr>
<td>Programming Projects</td>
<td>Miscellaneous</td>
<td>35%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>Exact date TBD (probably late Oct. / early Nov.)</td>
<td>30%</td>
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Final course grades will be determined based on the following scale:

- Student’s Final Average $\geq 90\%$ A
- Student’s Final Average $\geq 80\%$ B
- Student’s Final Average $\geq 70\%$ C
- Student’s Final Average $\geq 60\%$ D
- Student’s Final Average $< 60\%$ F

*Do not expect your grade to be “rounded up.”*

Topics Covered:

<table>
<thead>
<tr>
<th>Single Machine Models</th>
<th>Flow Shops</th>
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<tr>
<td>Advanced Single Machine Models</td>
<td>Job Shops</td>
</tr>
<tr>
<td>Parallel Machine Models</td>
<td>Open Shops</td>
</tr>
<tr>
<td>General Purpose Procedures for Deterministic Scheduling</td>
<td>Project Management</td>
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The midterm exam will be held during the regularly-scheduled class period.

Homework and programming assignments are critical components of the course. Although you may discuss the assignments with your classmates, all work that you submit must be your own work.

Assignments are due by the beginning of lecture on their due date, unless explicitly stated otherwise. Some, perhaps all, of the assignments must be submitted electronically via Blackboard. **Late assignments will not be accepted.**

Policy for Off Campus Students: All assignments should be submitted electronically via Blackboard within one (1) week of the due date given to the “local” students. If this causes you a problem, let me know as soon as possible.

Exam Makeup Policy: Exams missed with appropriate Tiger Cub excuses must be made-up according to the following schedule: Makeup exams will take place at 7:00am on the Monday following the originally-scheduled exam.

Grade Disputes: If you disagree with the manner in which an assignment was graded, you must request a re-evaluation of your assignment within two (2) weeks of the due date of that assignment.
**Attendance:** While attendance is highly recommended, it will not be a factor in the course grade.

**Unannounced Quizzes:** There will be no unannounced quizzes in this course.

**Departmental Calculator Policy:** To avoid academic dishonesty, students are not to have calculators that store text and/or can connect to Bluetooth devices during class. The only calculators that are acceptable for in class exams or quizzes TI-30XA, TI-30XIIB or TI-30XIIS, and TI-34II.

**Disabilities:** Any student with a disability needing special accommodation should notify the instructor and contact Dr. Sarah Colby Weaver, Director of the Program for Students with Disabilities, located in 1244 Haley Center.

**Academic Honesty:** All portions of the Auburn University student academic honesty code (Title X11) found in the Tiger Cub will apply to this class. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee. Violations include, but are not limited to:

- **Cheating on an examination** – This includes such things as copying from another’s paper, using unauthorized notes, calculators, etc., or giving or receiving unauthorized aid, such as trading examinations, whispering answers, passing notes, or using electronic devices to transmit or receive information.

- **Plagiarism** – This is using someone else's work without giving credit. It is, for example, using ideas, phrases, papers, laboratory reports, computer programs, data - copied directly or paraphrased - that you did not arrive at on your own. Sources include published works such as book, movies, web sites, and unpublished works such as other students' papers or material from a research service. In brief, representing someone else's work as your own is academically dishonest. The risk of plagiarism can be avoided in written work by clearly indicating, either in footnotes or in the paper itself, the source of any major or unique idea or wording that you did not arrive at on your own. Sources must be given regardless of whether the material is quoted directly or paraphrased.

> Copying another student's assignment and putting your name on it is plagiarism.

- **Unauthorized collaboration** – This is working with or receiving help from others on graded assignments without the specific approval of the instructor. *If in doubt, seek permission from the instructor before working with others.* Students are encouraged to learn from one another: Form study groups and discuss assignments, but each assignment must be individual work unless specifically stated and turned in as a group assignment.

- You are encouraged to talk to one another about your assignments, however, all assignments must be done by the student(s) whose name is (are) on it!

- **Multiple submission** – This means using the same work to fulfill the academic requirements in more than one course. *Prior permission of the instructors is essential.*

Syllabus prepared by C. Murray

*Revision History:*

- 8/18/11 – Updated TA information.