

# ISyE 3025 Engineering Economy

## Fall 2015

### Course Overview

**Instructor:** Yale T. Herer  
Office: Groseclose 416  
Email: [yaletherer@gatech.edu](mailto:yaletherer@gatech.edu)  
Office hours: MW 2:00 – 3:00 and MW 6:00 until the queue is empty.

**Delivery:** This is an internet course. Video lectures are posted online at [www.isye.gatech.edu/engecon](http://www.isye.gatech.edu/engecon). In-class lectures will be used to reinforce topics taught in the online lectures, solve example problems, and answer questions.

**Course description:** Methods of economic analysis in engineering, including time value of money, equivalence, economic measures of worth, selection rules for alternatives, income taxes and equipment depreciation, inflation, and uncertainty. The material is divided into four (4) learning cycles.

### In-Class Lectures:

In-class lectures and quizzes will be held on Mondays and Wednesday. **Attendance is strongly advised.**

1. Monday at 4:05 to 4:55 in IC 109.
2. Monday at 5:05 to 5:55 in IC 109.
3. Wednesday at 4:05 to 4:55 in IC 109.
4. Wednesday at 5:05 to 5:55 in IC 109.

### Quizzes:

- There are FOUR Quizzes total (no make-up quizzes).
- All quizzes will be held in-class.
- Quizzes will be weighted as follows – 35% (best quiz grade), 15% (worst quiz grade), 25% (each remaining quiz grade).
- All quizzes are cumulative due to the nature of the course material.
- All quizzes will be closed notes and closed books. Tables and formulas will be provided.
- Calculators, pens, pencils, etc. will not be provided and cannot be shared. Calculators must be computation-only devices (no photos, notes, etc.) and must have no internet access.
- The overall class grade will be based on the average of all four quiz grades per the above weighting.
- There will be NO individual make-up quizzes. **This is a class policy.**
- The table below shows the schedule of quizzes.

Quiz	Date	Time and Location
Quiz 1	Week of Sept. 14	Regular class time and room location
Quiz 2	Week of Oct. 5	Regular class time and room location
Quiz 3	Week of Nov 2	Regular class time and room location
Quiz 4	Week of November 30/exam week	Regular class time and room location (unanimous) or during exam week

### Homework Assignments:

1. There will be four (4) sets of homework assignments (one for each learning cycle). Homework solutions will be provided soon after the assignment is posted. Homework assignments and solutions will be posted on T-Square.
2. Homework will not be graded and will not contribute to the course grade.

## Lecture Notes:

In addition to the video online lectures, PDF slides accompanying those lectures are posted on the course website ([www.isye.gatech.edu/engecon](http://www.isye.gatech.edu/engecon)).

Text material is on the T-Square site, and you may print and read this information for your personal use in the course.

## Guidelines and Quizzes/Grading Procedures:

1. The final course grade will be the weighted average of all four quizz scores. All quizzes will be cumulative.
2. The class will be graded based on a straight scale, i.e., A (100% to 90%), B (89.9% to 80%), C (79.9% to 70%), D (69.9% to 60%), and F (below 60%).
3. There will be **No Make-Up Quizzes for individual students** and there are **No Practice Quizzes**.
4. Students should be prepared to show a photo ID (Buzzcard or driver's license).
5. Quizzes will be closed book, closed notes. It is strongly recommended that you bring a calculator with power functions and storage registers. Calculators must be computation-only, with no more than three (3) lines of display, and no internet capability. Any interest tables, tax rate tables, and tax depreciation tables that are needed will be provided with the quizzes, as well as some interest factor tables.
6. Students should arrive no later than 15 minutes after the quiz starting time; otherwise, they may not be allowed to start the quiz.
7. Grade appeals should be presented in writing within one week after the graded quizzes are returned to the students.

## Administrative Procedures:

1. **Class attendance:** Although this is an Internet class, **attendance is highly encouraged. It has been observed in past semesters that students who simply view the online lectures without attending can fall behind and perform poorly.**
2. **Course websites:** There are two websites that you should keep track of:
  - a. [www.isye.gatech.edu/engecon](http://www.isye.gatech.edu/engecon)
  - b. the course T-Square website
3. **E-mail communications:** All emails about the course should be addressed to the instructor. If you send an e-mail message, be sure to include the course number in the subject field (ISyE 3025). Many procedural questions are already answered in the syllabus so please check the syllabus beforehand.
4. **Homework:** It is important that you do the homework problems. Assistance with the homework will be available during class periods when there is no exam, and with the graders. Grader office hours will be in the ISyE Studio, first floor of ISyE Main Bldg. Hours will be posted on the T-Square Schedule.
5. **Grades:** Grades will be posted on T-Square within 7 to 10 days.
6. **Forum:** You are encouraged to use the T-Square Forum for questions of a general nature, which may be of interest to **others**. For questions that pertain only to you, such as an error in computing an exam grade, you should communicate directly with the instructor: [yaletcherer@gatech.edu](mailto:yaletcherer@gatech.edu)
7. **Lectures and text material:** Since this is a “flipped class,” it is important to view the online lectures corresponding to the in-class lecture topics prior to attending the in-class lectures. You will be in a better position to have any questions answered. Additional text material will be posted on T-Square. It is **HIGHLY RECOMMENDED** that you make sure to download the lectures notes/pdf/videos from the course website and from T-Square well in advance of quizzes because OIT’s staff often carries out upgrades or service activities, and you do not want these items to be unavailable if you are looking for them the night before the quiz.
8. **Cell phones:** The use of cell phones during the in-class lectures is banned.
9. **Please pay close attention to the Georgia Tech Student Code of Conduct:** The instructional staff takes specific measures to protect against students violating the student code of conduct, including the creation of multiple versions of tests, checking of IDs, and the scanning of graded papers before returning them to students.