ISYE 3025 Engineering Economy
Fall 2024 Course Syllabus
Sections T12

Instructor: Prof. Valerie Thomas, valerie.thomas@isye.gatech.edu, George Tower

Office Hours: By appointment, in George Tower.

Teaching Assistants: Nkoyo Inuikim

Class Meetings: In person. In-person attendance is expected. There is no online attendance.

0268 George Tower

Official Course Description and Objective: 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.

Textbooks: None. The class is based upon Newnan, Donald G., Eschenbach, Ted G. and Lavelle, Jerome P. *Engineering Economic Analysis* (Eleventh Edition). Oxford University Press: Oxford, 2011.

Course Website: We will use Canvas to communicate important dates and deadlines. Please make sure you are receiving important class e-mails via the course's distribution list. We will use Canvas exclusively for this class, including announcements, course material, and online quizzes & tests. The link to Canvas: https://gatech.instructure.com/

Grading: Contribution to Course Grade

Attendance	5%
Test 1	20%
Test 2	25%
Test 3	20%
Final	30%

There are 13 modules to be completed in sequence, with a practice quiz associated with modules 2 – 13 (there is no quiz for module 1). Each quiz is open book, open notes, not timed, and does not contribute to the grade.

Each week, a different topic will be covered in that week's module. The quiz for that topic will become available several days before class, the class for that week will focus on in-class practice problems for that topic, and the quiz will close before the next week's class. The table shows the plan for each module. My suggestion is that when the module becomes available, you review the powerpoint and

maybe take the first attempt at the quiz. If you don't understand something or miss something on the quiz, ask questions in that week's lecture, and then redo the quiz in the next day or two before it closes.

Module	Date	Topic
1 and 2	25-Aug	Introduction; Making Economic Decisions
3 and 4	1-Sep	Engineering Costs & Estimating; Interest
Test 1	8-Sep	Test 1
5	15-Sep	Single Payment
6	22-Sep	Uniform Series
7	29-Sep	Complicating Factors
	6-Oct	No class, fall break
8	13-Oct	Present Worth Analysis
Test 2	20-Oct	Test 2
9	27-Oct	Annual Cash Flow Analysis
10	3-Nov	Rate of Return Analysis, Incremental Analysis
Test 3	10-Nov	Test 3
11	17-Nov	Depreciation
12	24-Nov	Income Taxes
13	1-Dec	Inflation
14	8-Dec	Review
Final Exam	17-Dec	11:20-2:10

Grading scale will be [90-100] = A, [80-90) = B, [70-80) = C, [60-70) = D, and <60 = F. If you score in the appropriate range, you are guaranteed at least that grade.

Course Policies:

Attendance and Participation
In-person attendance and participation is expected for each class. The tests and final exam are in-person.

Re-Scheduled or Missed Tests and Exams
Make-up exams will be given only if you have an official or pre-approved reason or medical emergency. If you have a personal medical emergency and miss an exam, in-class exercise, or assignment due date, you must submit valid proof (no later than 7 days after

absence). Incomplete grades will be given only if you have a valid medical reason and proof for not completing the requirements of the course (following the Institute's rules).

Student Use of Mobile Devices in the Classroom
Use of electronic devices during class is limited to (i) taking notes, (ii) carrying out in-class exercises, and, if allowed during a test or exam, (iii) working on and answering tests questions in an approved online test environment.

Accommodations for Students with Disabilities
If you are a student with learning needs that require special accommodation, contact the Office of Disability Services (404-894-2563) to discuss your special needs and to obtain an accommodations letter. Please also e-mail me to set up a time to discuss your learning needs.

Student-Faculty Expectations Agreement
At Georgia Tech, we strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. The Student-Faculty Expectations articulate some basic expectations that you can have of me and that I have of you. Respect for knowledge, hard work, and cordial interactions will help build the environment we seek. I encourage you to remain committed to these ideals.

Academic Integrity
Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. Review Georgia Tech's Honor Code and the student Code of Conduct.

Any student suspected of cheating or plagiarism on a tests or exam will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.