

## CEE 677: CE Engineering Economics

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**Course Scope :** The impact of economic decisions on engineering projects and the associated decision making process.

**Course Materials:** Course Packet available for \$30.83 at the UC Bookstore includes pages from *Project Management: Processes, Methodologies, and Economics*, 2004 edition, by Avraham Shtub, Jonathan F. Bard, and Shlomo Globerson. Reproduced with permission from Pearson Education, Inc.

### Assignments, Exams, and Grading:

There will be three in-class quizzes and a final exam. You may discuss homework problems with other students, but you should develop your own solutions. Assignments turned in after 9:10 AM on the due date will not receive credit. Grades will be based on the following breakdown:

	Percentage of Total Grade
Homework Assignments	18%
Quiz 1	18%
Quiz 2	18%
Quiz 3	18%
Final Exam	28%

### Course topics include :

Cash Flow Diagrams, Interest Formulas
Equivalent Worth Methods, Unequal Lives, Bonds
Life of an asset, Decision-making, Spreadsheets
Internal Rate of Return, Incremental IRR Analysis
Payback Period, B/C Analysis, Incremental B/C Analysis
Sensitivity and Breakeven Analysis, Taxes and Depreciation
Replacement Analysis, Inflation
Currency Differences, Decision Trees