



Finance for Engineering Management

ENG/TE 566

Instructor

Brian Lilly, PhD

Associate Professor, Technology Entrepreneur Center

blilly@illinois.edu

Teaching Assistant (TA)

Abdullah AlOmani

PhD Candidate, Construction Management

alomani2@illinois.edu

Class Schedule: Monday-Wednesday, 1:00 to 2:50 pm

Location: Lincoln Hall 1066

Course Requirement

Book

Title: Understanding Financial Statements – A Primer of Useful Information

Author: Gill and Chatton

ISBN: 978-1-56052-425-0

ISBN-10: 1-56052-425-1

Course Description

Finance for Engineering Management introduces engineers to the important elements and metrics of business finance and contemporary engineering economics. The course covers a broad range of topics and explains the relationships between customers, employees, and shareholders in a corporate environment. The course covers the cornerstone financial concepts for engineering management to enable analysis of engineering projects from a financial perspective: income statements; the balance sheet; cash flow statements; financial ratio analysis; corporate organization; the time value of money; net present value; and discounted cash flow analysis are among the topics discussed.

Homework & Assignment

Assignments should be submitted on Compass2g. Homework assignments and due dates will be posted on compass. A major homework effort involves producing a finance program in excel or a programming language of your choice that performs many of the basic functions that a small business software package is designed to do. Various modules will be created throughout the course with the final program being the integration of the various modules. Homework assignments will be announced throughout the course.

Quizzes

Quiz will be an open book submitted on compass by [September 19th, 2019](#).

Grading Breakdown

30%: Individual homework assignments (*no credit given for late homework*)
30%: Quiz
40%: Software Program

Grading Scale

A 94-100%
A- 90-93%
B+ 86-89%
B 82-85%
B- 79-81%
C+ 75-78%
C 70-74%
C- 67-69%
D+ 63-66%
D 60-63%
F <60%

Outline of Sessions

Classes	Date	Session Topic
1	08/26/2019	Overview: Business of Engineering
2	08/28/2019	Balance Sheet Reading: Gill and Chatton pg. 1-11 (1 st assignment)
3	09/02/2019	Labor Day
4	09/04/2019	Income Statement Reading: Gill and Chatton pg. 12-15 (2 nd assignment)
5	09/09/2019	Cash Flow Reading: Gill and Chatton pg. 16-20
6	09/11/2019	Recovery – program discussion
7	09/16/2019	Financial Analysis: Payroll Processing, Hidden Expenses
8	09/18/2019	Financial Analysis: Tax Requirements
9	09/23/2019	Quiz covering all previous weeks
10	09/25/2019	Real Estate and business lease agreements
11	09/30/2019	Depreciation

12	10/02/2019	Financial Analysis: Net Present Value
13	10/07/2019	Business Plan Preparation
14	10/09/2019	No class – work on your program
15	10/14/2019	Turn in computer program
16	10/16/2019	

Academic Integrity

The University of Illinois at Urbana-Champaign Student Code should also be considered as a part of this syllabus. Students should pay particular attention to Article 1, Part 4: Academic Integrity. Read the Code at the following URL: <http://studentcode.illinois.edu/>.

Academic dishonesty may result in a failing grade. Every student is expected to review and abide by the Academic Integrity Policy: <http://studentcode.illinois.edu/>. Ignorance is not an excuse for any academic dishonesty. It is your responsibility to read this policy to avoid any misunderstanding. Do not hesitate to ask the instructor(s) if you are ever in doubt about what constitutes plagiarism, cheating, or any other breach of academic integrity.

Family Educational Rights and Privacy Act (FERPA)

Any student who has suppressed their directory information pursuant to Family Educational Rights and Privacy Act (FERPA) should self-identify to the instructor to ensure protection of the privacy of their attendance in this course. See <http://registrar.illinois.edu/ferpa> for more information on FERPA.