

# IE618 - Engineering Production and Cost Economics Spring 2010

## COURSE OUTLINE

Room: GITC1205-MEC214  
 Schedule: Monday, 6:00pm-9:05pm  
 Instructor: Dr. Reggie J. Caudill  
 Office: 203 MEC  
 Hours: By Appointment  
 email: [caudill@njit.edu](mailto:caudill@njit.edu)  
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Text: Hansen, Mowen & Guan, "Cost Management, Accounting and Control", 6th Edition.  
 Students Guide

Course Web: <http://web.njit.edu/~caudill/>

Objective: The course will enable students to perform financial/cost management activities including planning, measurement and control of operational financial data.

Topics include budgeting, activity based costing, quality costs, productivity, life cycle management, pricing & profitability, sustainability & eco-efficiency, capital investment decisions and efficient utilization of resources.

All topics are considered in the context of manufacturing and service industry applications where industrial engineers are expected to provide significant contribution.

Class	Chapter	Topic	Homework and Example Problems
Jan 28	1,2	Cost Management Concepts	2-(3, 5, 7, 8, 15, 16)
Feb 4	3,4	Cost Behavior / Activity-Based Costing	3-(6, 7, 10, 11, 14) 4-(2, 5, 16, 18)
Feb 11	5,6	Product and Service Costing	5-(2, 6, 14, 18, 21, 23) 6-(4, 8,9,12)
Feb 18	7,8	Allocating Costs / Budgeting	7-(5, 6, 7, 15, 18) 8-(3 ,5, 11, 12, 13)
Feb 25	9,10	Standard Costing / Decentralization	9-(2, 3, 9, 10,12, 14) 10-(5, 11, 21)
Mar 04	11,12	Strategic Cost / Activity Based Management	11-(5, 6, 9, 20) 12-(1, 3, 5, 9, 16)
Mar 11		<b>Exam 1</b>	
Mar 18		Spring Break	
Mar 25	13, 14	Control / Cost of Quality	13-(5, 6, 17, 18) 14-(6, 7, 13)
Apr 01	15,16	Productivity / Lean-Value Streaming	15-(3, 4, 9) 16-(3, 4, 7)
Apr 08	17	Cost, Volume, Profit, Breakeven Analysis	17-(2, 4, 6, 11, 14, 15, 21)
Apr 15	19,20	Tactical Decision Making / Capital Investment	19-(7, 8, 13, 14, 21, 22)
Apr 22	20	Capital Investment	20-(4, 5, 10, 13, 14, 18)
Apr 29	Notes	Sustainable Management Systems	Handout
May 06		Project Presentations	
May 13		<b>Exam 2</b>	

Grade: **Exam 1 25%, Exam 2 25%, Team Project 30%, Profiles 10%, and Homework 10%**