

BCN 5705C Project Management for Construction

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CLASSROOM: As Assigned

OFFICE: RNK 314

OFFICE HOURS: By Appointment

DESCRIPTION: Examination of the methods and techniques associated with the organization, planning and implementation of the Project Plan for a construction project. Covers the life cycle of the project including estimating, contract award, subcontractor selection/management, cost/schedule control, change orders, field record keeping, quality control, safety, project closeout and warranties/claims.

COURSE Students who complete this course will demonstrate their ability to:

OBJECTIVES: 1. Apply their knowledge of project management to perform the function of project engineer on a construction project.

2. Understand and appreciate the various forms of project delivery methods (DBB, DB, CM) and describe the underlying principles for choosing the appropriate system.

3. Recognize and deal with the complexity of the preconstruction process including conceptual estimating & scheduling, life cycle costing constructability reviews, value engineering, and special contract requirements (MBE, etc.).

4. Create, track and expedite purchases to coordinate with the construction schedule.

5. Control and report costs of material and equipment
6. Understand the elements of a successful quality control program.

7. Recognize techniques to assess and manage operational risk.

8. Understand and manipulate a computerized project management system.

PREREQUISITES: Graduate Standing or Instructor Permission.

TEXT (Required): Pearson, Construction Project Management, 4th Ed, Fredrick Gould, Nancy Joyce.

READING Students are responsible for the contents of all reading assignments

whether or not the material is covered in Class.

GRADING:	Attendance	40%
	20 Page Paper	20%
	Exams	<u>40%</u>
		100%

GRADING SCALE:	A = 90.0 and Above	C = 70.0 to 76.9
	A- = 87.0 to 89.9	C- = 67.0 to 69.9
	B = 80.0 to 86.9	D = 60.0 to 66.9
	B- = 77.0 to 79.9	E = Below 60.0

SYLLABUS

Week	Topic	Chapter
1	Introduction The Construction Project	1
2	Project Participants Organizing and Leading	2 3
3	Project Delivery Methods	4
4	EXAM Project Chronology	5
5	Const. Services During Design	6
6/7	Bidding and Procurement	7
7	Construction and Closeout	8
8	Estimating Project Costs	9
9	Project Planning and Scheduling	10
10	Controlling Cost, Time and Quality	11
11	Project Administration	12
12/13	Construction Law	13
14/15	Construction Safety and Health	14

Note: Coverage of the syllabus material is contingent upon availability of time and student progress in grasping the subjects covered. All class content is subject to change and revision.