

Course Syllabus – CNST 4341

Project Controls

Course Description

This course is designed to give the student a chance to implement the full range skills, knowledge, and ideas learned throughout the construction management program prior to this course. The students will have the opportunity to demonstrate their abilities and knowledge while learning many of the vital elements and challenges that construction managers will face in the development and execution of a construction project, while also learning of the processes and systems available to them from pre-construction to closeout

Course Prerequisites

C or better in CNST 4331.

Textbook

Project Documents, reading materials, quizzes and video presentations supplied by the instructors facilitating the course.

Course Learning Outcomes:

The student should better understand and demonstrate the ability to create and/or deliver:

1. Public presentation incorporating and reflecting the elements of a project controls
2. Executive summaries on project status
3. Integrate knowledge of previous courses such as; estimating, scheduling, accounting into project execution, monitoring, and controlling.
4. Understand and manipulate a project management information system to document, track and analyze data.
5. Better understand Project Delivery methods and methodologies
6. Better understand construction contract document requirements

Refine construction management skills by gaining a fuller understanding of responsibility matrices, risk management and team accountability, in addition to an enhanced skill set involving logistics, safety and communication.

Student Learning Outcomes:

- 1 Create written communications appropriate to the construction discipline
- 2 Create oral presentations appropriate to the construction discipline
- 4 Create construction project cost estimates
- 5 Create construction project schedules
- 7 Analyze construction documents for planning and management of construction processes
- 10 Apply electronic-based technology to manage the construction process
- 13 Understand construction risk management
- 14 Understand construction accounting and cost control
- 16 Understand construction project control processes

Course and Student Learning Outcome Mapping:

Student Learning Outcome	Course Learning Outcomes
1	2
2	1
4	3
5	4
7	6
10	4
13	3, 4
14	3, 4
16	3, 4

Student Learning Assessment and Assessment Target:

Assessment	SLO#1	SLO#2	SLO#3	SLO#4	SLO#5	SLO#7	SLO#10	SLO#13	SLO#14	SLO#16
Support (S)	X	X	X	X	X	X	X	X		X
Assess (A)									X	

Assessment Target: At least 70% of students receive a grade of 70 or better

Class Grading:

Class Quizzes/Homework	20%
Midterm Exam	20%
Final Exam	30%
Class Project	20%
Class Participation/Safety Moment	10%

Grading Scale:

Letter Grade	Score
A	93-100%
A-	90-92%
B+	86-89%
B	83-85%
B-	80-82%
C+	76-79%
C	73-75%
C-	70-72%
D+	65-69%
D	60-64%
F	<60

Class Schedule:

Week #	Topic
1-13	<ul style="list-style-type: none"> ✓ Project Team Creation ✓ Sample Construction Project Review ✓ Understanding Overhead, Cost and Fee of a Construction Agreement ✓ Communication plan ✓ Responsibility Matrix ✓ Risk Management ✓ Project Delivery Methods ✓ Project Delivery Concepts ✓ Project Management Information Systems ✓ Project Controls- Forms and Processes ✓ Public Speaking and Presentations ✓ Project Closeout ✓ Understanding the elements of a Project Execution Plan ✓ Quality Controls ✓ Logistics ✓ Procurement ✓ Buy Out and bid tabulations ✓ Scheduling ✓ Safety ✓ Project estimate ✓ Project status reports
14	Class Work Session for final Presentation
15	Final Presentation and Final Completion Report

Academic Honesty:

The instructor reserves the right to adjust letter grades, upward only, based on individual attendance and class participation if numerical grade warrants such consideration. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of The University, policies on scholastic dishonesty will be strictly enforced.

Exam Policy:

Exams will include material covered in class discussions and homework assignments. Exam make-ups will be given only in the event of a verified emergency or doctor-verified sickness. The student is responsible for all reading assignments and class handouts whether or not covered in class or listed on the syllabus.

The last day of class is the deadline for students to verify their grades and the accuracy of their score. After this deadline, there will be no consideration for any changes.

University Counseling and Psychological Services:

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (UH main campus www.uh.edu/caps, or UH Sugar Land campus <http://www.uh.edu/dsaes/uhsugarland/>) by calling [713-743-5454](tel:713-743-5454) during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let's Talk” program, a drop-in consultation service at convenient locations and hours around campus.

UH main campus: http://www.uh.edu/caps/outreach/lets_talk.html

UH Sugar Land campus: <http://www.uh.edu/dsaes/uhsugarland/>

Classroom Behavior:

High level of professionalism in the classroom is expected. The instructor has the right to set the rules in his/her classroom. A student does not have the right to make changes to the instructor's way of managing the classroom. Disruptive behaviors, such as excessive talking, arriving late to class, and using unauthorized electronic devices during class is not permitted. Repetitive and seriously disruptive behavior may result in removal from class in accordance with policies and procedures set by the Dean of Students Office.

Course/Instructor Evaluation:

A Start-Stop-Continue survey and a course/instructor evaluation will be conducted in the middle and the end of this semester. Any suggestions you have on improving the course, however, are welcome throughout the semester.

For detailed information about Disabilities, Religious Holy Days, the Academic Calendar, and Academic Honesty, and other information, please visit the following website: http://www.uh.edu/provost/stu/stu_syllabsuppl.html

Students with Disabilities:

University of Houston provides, upon request, appropriate academic adjustments for qualified students with disabilities. Any student with a documented disability (physical or cognitive) who requires academic accommodations should contact the Center for Students with Disabilities (713/743-5400) for more assistance.

For detailed information about Disabilities, Religious Holy Days, the Academic Calendar, and Academic Honesty, and other information, please visit the following website:

<http://www.uh.edu/provost/policies/student/resources/>.

