



Department of Engineering Technology

CNET 4780 – Senior Design I Section 001 – Fall 2017 Syllabus

Meeting Times: Thurs.: 10:00 a.m. – 10:50 a.m.
Meeting Room: NTDP F185

INSTRUCTOR	Aloysius (Al) Attah, P.E.	EVALUATION	
OFFICE	NTDP F115G	<div>Sample Project Milestones70%</div> <div>Project Plan Presentation10%</div> <div>Project Plan Report20%</div>	
PHONE	(940) 565 – 2022		
<div>OFFICE HOURS</div> <div>Mon: 1:30 p.m. – 3:30 p.m.</div> <div>Tue: 9:00 a.m. – 10:00 a.m.; 11:00 a.m. – 1:00 p.m.</div> <div>Wed: 9:30 a.m. – 10:30 a.m.; 1:30 p.m. – 2:30 p.m.</div> <div>Thu: 9:30 a.m. – 10:00 a.m.; 1:30 p.m. – 3:00 p.m.</div> <div>OR</div> <div>By appointment</div>			
E-MAIL: alloysius.attah@unt.edu			
TOTAL			

COURSE OBJECTIVES:

At the conclusion of this course, you should be able to:

- *discuss* the construction project lifecycle from conception to completion as used in the construction industry.
- *implement* a team-based approach to construction projects.
- *prepare* a preliminary versions of documentation regarding site logistics, budget, schedule, sustainability, value analysis, risk assessment, and business planning for a construction project.
- *communicate* the products of the planning process in oral and written formats.

COURSE POLICY/GRADING:

Sample Project Milestones (SPM):

- In the teams assigned for projects, each team will apply the requirements of the design project to a sample project.
- The requirement for each milestone will be detailed in handouts to be distributed during class sessions.
- Each milestone will be due in the session listed in the course outline below.
- There will be 7 milestones worth 10% each. Therefore, all the milestones will be worth 70% of the course grade.
- All members of the project team will receive the same grade for all milestones.
- Each team will present one of the milestones to the class for discussion in lieu of a milestone submission, and will receive the points for that milestone on the basis of the class' evaluation of their presentation.

- Only one late milestone will be accepted during the semester. It must be handed in by the next session after which it is due, and it will be graded at a 4% penalty (i.e. the maximum grade possible for a late milestone will be 6%).
- The milestone presentation must be made on the date assigned to each team, and no late milestone presentations will be permitted

Project Plan:

- The individual team projects will be distributed during the semester.
- After completing the sample project milestones, each team must compose a plan to complete the project requirements for their individual projects.
- The specific requirements of the project plan will be outlined when the project is distributed, but, in general, the plan must:
 - summarize the nature and objective of the project
 - outline the process and timeline by which the project requirements will be completed during the spring semester
 - clarify each team member's role in the process, and specific approaches they will take to carrying out their role

Other Policies:

- This course will adhere to UNT academic policies, including those for academic integrity (<http://vpaa.unt.edu/academic-integrity.htm>) and overall conduct (<http://deanofstudents.unt.edu/conduct>). It is your responsibility as a UNT student to be familiar with these policies, but feel free to ask the instructor any questions pertaining to these.
- Any accommodations for differing abilities will be made for this course as per the policies and determination of the Office of Disability Accommodation: <http://disability.unt.edu/>

COURSE MATERIALS:

- All materials to be provided in class/on website, including excerpts from manuals, etc.

See Course Outline on the Next Page

COURSE OUTLINE:

The instructor reserves the right to change the following course outline/content at any time.

WEEK-DATE	TOPIC	WORK DUE
1 – Aug. 29	Introduction to course /Review of syllabus. Organization of teams.	
2 – Sept. 5	Organization of teams cont'd. <i>Topic 1:</i> How to be a team.	Team contract.
3 – Sept. 12	Introduction to sample project. <i>Topic 2:</i> Site logistics and layout.	
4 – Sept. 19	Team 1 logistics/layout presentation. <i>Topic 3:</i> Budget.	
5 – Sept. 26	Team 2 budget outline presentation. <i>Topic 4:</i> Schedule.	SPM1: logistics/layout
6 – Oct. 3	Team 3 rough schedule presentation. <i>Topic 5:</i> Sustainability.	SPM2: budget outline
7 – Oct. 10	Team 4 green review presentation. <i>Topic 6:</i> Value analysis.	SPM3: rough schedule
8 – Oct. 17	Team 5 value analysis presentation. <i>Topic 6:</i> Risk assessment.	SPM4: green review
9 – Oct. 24	Team 6 risk assessment presentation. <i>Topic 7:</i> Business plan.	SPM5: value analysis
10 – Oct. 31	Team 7 business plan presentation. Distribution of projects.	SPM6: risk assessment
11 – Nov. 7	Quality issue: Project coordination and communication	SPM7: business plan
12 – Nov. 14	Quality issue: The owner, design professional, and constructor.	
13 – Nov. 21	Quality issue: Partnering.	
14 – Nov. 28	Project plan presentations. (Part 1)	
15 – Dec. 5	Project plan presentations. (Part 2)	Project plan report (12/5)
16 – Dec. 12	Finals Week – No Class	