



## Department of Engineering Technology

### CNET 4790 – Senior Design II Section 002/101 – spring 2018 Syllabus

**Lecture Meeting Times:** Thursday: 1:00 pm – 1:50 pm  
**Meeting Room:** NTDP F183

**Lab Meeting Times:** Thursday: 3:30 p.m. – 7:20 p.m.  
**Meeting Room:** NTDP F187

<b>INSTRUCTOR</b>	Aloysius (Al) Attah, P.E.	<b>EVALUATION</b>	
<b>OFFICE</b>	NTDP F115G	Project Report Project Presentation Individual Contribution	70% 20% 10%
<b>PHONE</b>	(940) 565 – 2022		
<b>OFFICE HOURS</b>	Mon./Wed/Thu: 10:00am -11:30am Tue.: 1:00 p.m. - 2:30pm		
<b>E-MAIL:</b>	<a href="mailto:alloysius.attah@unt.edu">alloysius.attah@unt.edu</a>		
		<b>TOTAL</b>	100%

#### COURSE OBJECTIVES:

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

- *implement* a team-based approach to construction projects.
- *prepare* documentation regarding site logistics, safety, 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:

##### Project Report:

- In the teams assigned for projects, each team will apply the requirements of the design project to the project report.
- The report should contain sections regarding the following:
  - Logistics and layout
  - Budget
  - Schedule
  - Sustainability
  - Value analysis
  - Risk assessment (**including safety plan**)
  - Business plan
  - Computer modeling (BIM, etc.)
- **The report will be worth 70 points towards the final grade.**
  - Members of the group will peer-review each other on a scale of 0 to 10 where 0 is no contribution and 10 is complete/active contribution to the project.
  - A student's final grade on the report will be a factor of the peer-review score. This means that members of a group may not receive the same grade on the report.
- The report must be submitted by the due date shown on the schedule, and no late submissions will be accepted.

#### Project Presentation:

- Each team must present on their assigned project for 25 to 30 minutes on Senior Design Day.
- The presentations will be graded based on the rubric to be provided during mock presentations.
- The grades will be assigned based on the following distribution: 1/3 by the instructor, 1/3 by the project mentor(s), and 1/3 by all other evaluators.
- The presentation will be worth 20 points towards the final grade, and all members of the group will receive the same grade.

#### Individual Contribution:

- As an appendix to the project report, each member of the project team must include a one-page statement that addresses their contribution towards the project, as well as the lessons they drew from carrying out the project.
- This statement will be worth 10 points towards the final grade, and each team member will receive an individual grade for this portion.

#### 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:**

- No required textbook.
- Supplemental materials will be provided as necessary.

**COURSE OUTLINE:****Subject to Change**

<b>WEEK-DATE</b>	<b>TOPIC</b>	<b>WORK DUE</b>
1 – Jan. 18	Introduction to course.	
	Guest Speaker	
2 – Jan. 25	Project Abstracts	
3 – Feb. 1	Project Report Outline	
	Lab – Begin Logistics Plan and Layout	
4 – Feb. 8	Market Research – Business Case/Business Plan	
	Logistics Plan and Layout Due	Logistics Plan
5 – Feb. 15	Safety Program Detailed with Budget	
	Lab - BIM & Schedule Details	
6 – Feb. 22	Status Updates	
	Lab – Financial Details/Detailed Budget for Project	
7 – Mar. 1	Sustainability	
	Lab – Value Analysis	
8 – Mar. 8	Sponsor Day – Submit /Review Detailed Schedules	
<b>9 – Mar. 15</b>	<b>NO CLASS (Spring break).</b>	
10 – Mar. 22	Midterm PPT Presentations	
11 – Mar. 29	Submit Detailed Budget for Project	Detailed Budget for Project
12 – Apr. 5	Status Updates	Project Abstracts.
	Lab – Prepare Poster and Display	First Draft of Project Poster.
13 – Apr. 12	Risk Assessment	Register Projects.
	Lab – Prepare Written Report Draft	
14 – Apr. 19	Mock Presentations for Groups 1, 2, 3, and 4	Final Draft of Project Poster.
	Finalize Written Project Report	Written Project Report
15 – Apr. 26	Mock Presentations for Groups 5, 6, and 7.	
	Prep for Actual Presentations	
15 – April 27	Senior Design Day.	Actual Project Presentations
16 – May 3	Meet As Needed.	