



EAST TENNESSEE STATE
UNIVERSITY

DEPARTMENT OF
Engineering,
Engineering Technology,
& Surveying

ENTC 4600 – Technical Practicum

Spring 2022

Instructor: Dr. Samia Afrin
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Class: On-ground, Room 016, MWF

Course Description: A senior-level capstone course in advanced problem solving by organized team methods. Requires the student to synthesize and apply subject matter studies in previous required courses. For example, in manufacturing, students will draw upon their knowledge of product design and manufacturing methods to solve a complex problem. Units of instruction will include project planning (GANTT and WBS), human factors, design aesthetics, systems methods, and group dynamics. Major requirements include a team presentation and a comprehensive technical report.

This course is an oral intensive course: The student will be required to make presentations as outlined in the project guideline.

Prerequisite Requirements: Senior standing, ENTC 3030, and at least 24 credits in a technology concentration

Textbook Requirements: There will be numerous handouts/postings on D2L. You will be responsible for knowing this material and using it in both your reports and class final.

Course Goals, Objectives and Student Learning Outcomes: Course outcomes are the measurable goals or objectives of the course. As such, these outcomes show what is expected of students by the time they complete this course.

Upon completion of this course, a student will be able to:

- (1) Describe and function on a team
- (2) Develop and deliver a formal presentation
- (3) Consider constraints in the development of specifications
- (4) Develop and execute to plan to project completion.

Methods of Instruction: In order to attain the student learning objectives listed above, students are expected to:

- 1) attend classes to listen to lecture materials

- 2) participate in classroom activity during allotted lab time, and
- 3) complete all assignments, including reviewing feedback on assignments and exams.

Evaluation Policy:

Grading is based on your performance as revealed in your attendance, presentation, report writing, calculation and final result.

*Construction students will receive a grade on their work from Dr. Kenneth Kellogg.

Percent of Final Grade

1. Midterm Presentation.....	10%
2. Midterm Report	20%
3. Peer Evaluation.....	5%
4. Final Presentation.....	20%
5. Final Report	35%
6. Exit Exam.....	10%

Total 100%

Course Requirements and Evaluation:

Percentage	Letter Grade	Quality Points
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
60-66	D	1.0
0-59	F	0

Grades assessed in the class will be based on attendance & participation, presentations, research assignments, writing assignments, and team assignments. Additionally, credit may be recognized for exams and/or quizzes, and involvement in extra-curricular activities.

Assignments are due BEFORE THE BEGINNING OF CLASS on the date specified.

Late assignments will be penalized 50%, and will be delayed in grading and feedback. Assignments will not be accepted more than two weeks late.

All assignments must be submitted as a filetype format that can readily be viewed with Microsoft Office software.

ALL submitted files must include the individual name (for individually-submitted files) or team name (for team assignments) within the filename; e.g. "JamesBernardAssignment1.doc".

Class Attendance Policy: You are expected to be in class on time, every day, and for the full class period. Note that a portion of the student's grade is based on attendance. If you missed three classes or more, instructor reserve the power to drop you out from the course. In accordance with University policy, attendance will be taken. It is the student's responsibility to ensure his attendance is recorded.

If you are unable to attend a class period, there are two steps to receive an excused absence.

- 1) Contact me ASAP before the class period you will miss (or ASAP after missing). **It is required that you notify me as soon as you know you will be absent.** Failure to contact the instructor ASAP prior to or following an absence will result in an unexcused absence.
- 2) You must present a valid excuse for absences by the class period following your return to class. Valid excuses include serious illness, death in the immediate family, and participation in University-sponsored events. Any other excuse will be evaluated by the instructor on an individual basis. The student must present **independent written verification** of the excuse (e.g. a doctor's note indicating illness dates, a newspaper obituary, a note from a coach indicating the student was at a game, etc.). Failure to contact the instructor and present a valid excuse within the designated time-frame will result in an unexcused absence.

*****BE HERE - physically & mentally! Pay attention, ask questions, NO cell phone/texting, etc.**

Makeup Examinations and Required Class Activity Policy: Makeups for missed examinations or in-class activities may be permitted at the instructor's discretion. If an examination or in-class activity is missed, you are expected to contact me ASAP. A valid excuse must be presented in person and we will discuss how to replace the missed grade; otherwise a grade of zero will be given.

Academic Integrity Policy Statement: The ETSU Student Disciplinary Policies are available at http://catalog.etsu.edu/content.php?catoid=11&navoid=522#Student_Disciplinary_Policies. Students are encouraged to read this policy.

Cases of academic misconduct (including plagiarism, cheating, falsification, and unauthorized access) and the penalty imposed by the instructor will be SEVERE, and will be reported to the department head and the Office of the Dean of Student Services.

D2L: Illustrating the global and technologically diverse society that we have become, this course will use D2L, a virtual learning platform used for communication, accessing and depositing content, and collaboration. Every student must be enrolled in D2L for this class, and to access D2L regularly throughout the semester in order to access and participate in D2L-based activities. Grades will be available in D2L as soon as the work is graded.

ETSU Policy Statements: Many important policy statements, including diversity awareness, academic integrity ("Honor Code"), and academic accommodations for students with disabilities are available at <http://www.etsu.edu/reg/academics/syllabus.aspx>. Students are encouraged to review and become familiar with these policy statements. These policy statements are also available for this course as a file named, "Syllabus Attachment University Policies.pdf".

Class Schedule: A tentative schedule will be provided. However, given the dynamic nature of this class, the schedule is subject to change. Attend class every day and monitor the D2L site and your email for notification of schedule changes.