

**ENGR 1201 Course Objectives, Syllabus, and
Course Policies Fall 2026**

“I have never let my schooling interfere with my education.”

-Mark Twain (1835-1910)

COURSE: **ENGR1201 – Introduction to Engineering**
Lectures: Mondays and Wednesdays 10:10-11:05 a.m. in RBN 3039

COURSE DESCRIPTION: An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. Two hours of lecture per week.

REQUIRED TEXT: None

INSTRUCTOR: Dr. J. Torey Nalbone, Office – RBS 2003; Phone – 903 – 565 – 5520–
tnalbone@uttyler.edu
Office hours generally 0730 – 0900 M, T, & W or as posted or with appointment when other arrangements are made.

Also available is a ZOOM Office hours available during Regular hours and you are welcome to seek additional instruction. **I have set aside virtual office hours via ZOOM posted on Canvas.**

Torey Nalbone is inviting you to a scheduled Zoom meeting.

Join Course Office Hours Zoom Meeting

<https://uttyler.zoom.us/j/85751252646?pwd=Ybb7Y1j01GiJeiHE42MkhNzdX8GTpD.1>

Meeting ID: 857 5125 2646

Passcode: 704507

One tap mobile

+13462487799,,85751252646# US (Houston)

+17193594580,,85751252646# US

All materials for the course will be available on the CANVAS web site for the course. An appropriate introduction will be provided when a quest lecturer's video is part of the lessons for the day.

ABOUT THE COURSE

This course is all about you. It will focus on the tools for you to be a success in your journey as an engineering student. The course objectives are also the foundation stones for you becoming a successful practicing engineer and to meet these long-term goals for the course and for you. We will see how math and science establish the foundation for engineering analysis and design and how we work to maximize the use of computers in support of our work. You will hear practicing engineers and computer scientist talk about real world engineering and computer science problems. You will do projects to be introduced to analysis and the engineering design process. We have six (6) specific objectives in this course (listed below), each is focused on an essential skill for success as an engineering student and as an engineer in the future. They can be generally grouped and summarized as learning about how engineering impacted the modern world, introduce you to some of the tools and techniques you will need to complete your studies in engineering, and give you an appreciation for the engineering profession. In this course you will also explore how engineering has impacted the modern world

COURSE OBJECTIVES AND TOPICS COVERED

Course Objectives

- a. Explain the engineering profession and engineering ethics.
- b. Explain engineering analysis and design using the proper techniques and processes to plan and execute.
- c. Use technical communication skills to explain the results/analysis of process of design and data presentation.
- d. Contribute as a member of a design team to construct a simple engineering device, write a design report, and present the design as part of team and participate in a competition for design adequacy and specification adherence.
- e. Demonstrate computer literacy with the use of computer tools for engineering.
- f. Analyze the impact engineering has had on the modern world.

Topics Covered

- The impact engineering had in the Modern World
- Introduction to engineering as a profession and career
- Design project processes of applying specifications and engineering constraints.
- Technical report writing skills, style and proper documentation.
- Technical presentation skills, different methods.
- Study skills using library activities.
- Engineering competence by use and reference to standards, specifications and codes.
- Development of essential professional survival skills (resumes, social media, interviewing, etc.)

CANVAS

Course syllabus and all course material including handouts will be posted on CANVAS Please review all the material posted on CANVAS on a regular basis. We will also use Announcements with in CANVAS to post announcements, record grades and contact students. Contact of student's may also be accomplished through e-mail. Only a student's assigned UT Tyler email address will be used for all course correspondence, so be certain to check it often.

ATTENDANCE

Regular attendance is imperative if you want to do well in college and specially this course. Therefore, **regular attendance is required**, and course grades WILL be adjusted if necessary, within the Grading rubric covered by Professional Practice. (See below)

Important and Continued Public Health Information for Classrooms and Team Activities

UT Tyler is operating under general good public health practices and guidance. If you do not feel well then stay home, and notify the instructor of the anticipated absence when feasible. Self-isolation is important to reduce exposure whether a cold, flu or other contagious ailment. You may visit the ([CDC quarantine/isolation guidelines](https://www.cdc.gov/quarantine/isolation-guidelines)).if needed. Please work with your instructor(s) to maintain coursework and please consult [existing campus resources](#) when available or your instructor.

CLASS OPERATIONS

- 1) All materials will be placed on the Canvas Platform for access including links to class lecture.
- 2) All important information will be communicated in this syllabus or through timely class wide announcements posted in CANVAS.
- 3) All Announcements are important and are also part of the consideration for Professional Practice. A record of attendance will be made for every class meeting. A student's failure in meeting the minimum attendance requirement may result in a grade of "F" in the course (see grading section). In case you must miss a class please contact the instructor as soon as feasible, preferably prior to the absence. It is however your responsibility to keep up with the class work and be informed of all announcements made in the class on assignments, work to be submitted, lab/project reports, communication with your project team members, etc.

RESEARCH/TECHNICAL PAPER

Each student will write a research/technical paper in this course with both draft and final (revised) versions graded. Details will be announced in class. **Everyone will be required to take their outline and drafts to the writing center to be evaluated.** WRITING CENTER: The UT-Tyler Writing Center provides professional writing tutoring for all students. You will be provided additional information on how to access this resource as the course moves forward. When you use the Writing Center, you should plan in advance for a minimum of one-two hour-long tutorials per assignment: the first to assess your needs, and the second to follow up. Be prepared to take an active role in your learning, as you will be asked to discuss your work. While Writing Center tutors are happy to give constructive criticism and teach effective writing techniques, they will under no circumstances write your paper for you. Appointments are required and should be anticipated that the available times will be limited. So, start early and consider the resources often when writing anything for this course is strongly encouraged: Appointments call 903-565-5995, or visit <http://www.uttyler.edu/writingcenter/>

DESIGN PROJECT

Each student is required to participate in a semester design project will be assigned. Instructions and rules will be provided. The Fall Semester project is required participation in Ratliff Relays. This will be our 5th year of the relays and specific of the event will be provided. The project is according to declared major and teams will be assigned along the Major delineations for consistency, learning purpose, and also to gain project team experience within on your major for future course opportunities.with class mates in your major.

FINAL GRADE Allocations

Final grades in this course are based on:

Professional Practice (see below) (includes attendance considerations)	12.5%	250 points
Class assignments/Homework	22.5%	450 points
Technical Paper (Outline & Final)	35%	700 points
Team Design Element (See Team Rules)	30%	600 points
Total	100%	2000points

FINAL GRADES ASSIGNMENT

HI	LOW	%	Final Grade
2000	1800	90%	A
1799	1600	80%	B
1599	1400	70%	C
1399	1200	60%	D
1199	0	<60%	F

What is Professional Practice? – There are certain expectations of professionals in the workplace (especially of engineers) and those same expectations are key components in this course and in preparing you for success as an engineering student. These practices demonstrate that an engineer is:

- a) Prepared – students are expected to be prepared for the lesson by reading or completing assigned materials prior to class.
- b) Present – students are expected to attend class (see above) just as an employer will count on your presence at work we count on your attendance to class. Any student present less than 60% of the class meetings, lectures or lessons may fail the course.
- c) Punctual – students are expected to submit assignments according to the attached class schedule or due date provided on the assignment sheet. Assignments are due prior to class submitted through the appropriate CANVAS portal for the assignment. Assignments turned in after class starts will be considered late.
- d) COORDINATED LATE Submission penalties are as follows:
 - i) Course assignment turned in late
 - (1) but prior to 5:00p.m. (1700 hrs.) on the date due - 5% reduction
 - (2) within one (1) day of the due date - 15 % reduction; homework turned in within two days of the due date will receive a 25 % reduction. *No credit will be given for homework turned in more than two days late.* **You will receive an Incomplete in the Course if all Assignments have not been submitted.** Obviously there may be circumstances that will occur and make a timely submission impossible. Notify me immediately and I will work with you if/when they occur.
- e) Participating – students are expected to contribute to each lesson when called upon during class and as a member of their design/work teams.

WRITTEN ASSIGNMENT FORMAT

The production of a neat, organized, high-quality assignments cannot be overestimated nor can its importance to your course grade be overstated. An assignment should be something you are proud of and not something hastily “slapped together”. Toward this end, considerable emphasis will be placed on not only getting the assignment completed, but also on completion and in accordance to format and style requirements. These format and style requirements will be provided on CANVAS but will also be included in each assignments sheet. As an engineer your goal is to make a clear, logical, and professional presentation of your work, which is both accurate, correct and appropriately attributed to sources relied upon for your completion of the assignment. As previously mentioned, all submissions are due at the beginning of class on the due date. The Late grade deduction is as Follows

SUBMISSION	LATE Penalty
Due date at prior to beginning of class or earlier	No Penalty
After class but before 1700 (5:00 p.m.) of due date	25% reduction
One (1) day late (next day at midnight)	50% reduction
Two (2) days late (second day after assignment due)	No points

Late submissions should be uploaded to CANVAS just as original submittals. Any work submitted after the submission timer will be considered late unless previous arrangements with the instructor have been made. All work submitted late will be subject to a reduction in grade as described above.

Work submitted more than 48 hours late will not be graded but MUST be submitted in order to receive completion credit in the course.

TENTATIVE COURSE ENGR 1201 SCHEDULE

This schedule may be adjusted, as needed, to better serve the educational needs of the class.

Wk. #	DATE	LSN	Topic	Reading	Guest	Assignments
1	8/ 24	1	Course Introduction/Syllabus and Schedule Review			Who Am I Self-Intro.
	8/26	2	Team Formation and Planning	Canvas		HW1
2	8/ 31	3	Design Objectives and Engineering Constraints What is key to engineering design	Reading on Canvas		PD-All
	9/ 2	4	Career Fair Preparation		Purdy	HW1 and PD1
3	9/7		Labor Day (No Class Meeting)			
	9/9	5	Project Management and Design Teams			HW2
4	9/14	6	Building the Team for the Project			PD2
	9/16	7	Building a presentation			HW3A
5	9/21	8	Another Communication level - Poster			HW3B
	9/23	9	Library Research and Engineering Resources			TP1
6	9/28	10	Engineering Measurements and Calibration			
	9/30	11	Thinking Like an Engineer – Data and Decisions			
7	10/5	12	Thinking Like an Engineer - Units and Numbers			PD3
	10/7	13	Specifications, Criteria, Standards and Codes			HW4
8	10/12	14	Sustainability and Engineering (What and How)			
	10/14	15	Thinking Like and Engineer – Sustainability and Use			HW4
	10/17	RR	Ratliff Relay 0830 on UT Tyler Main Campus			PD4
9	10/19	16	Ratliff Presentation of Project in class			Mid Term Grades Published
	10/21	17	Engineering Ethics			
10	10/26	18	The Engineering Profession and Engineering Ethics			HW5
	10/28	19	Real Lie Ethics in Practice in Engineering			
	10/30		Last Day to Withdraw for any 15 week course			
11	11/2	20	Thinking like an Engineer – Energy Efficiency			
	11/4	21	When is efficiency worth the cost?			PD5
	11/2-5		Spring Registration begins by classification			
12	11/9	22	Chemical Engineering in the Real World, practitioner	CHEN		
	11/11	23	Civil Engineering in the Real World, practitioner	CENG		HW6
13	11/16	24	Internships Getting Ready		Purdy	HW7
	11/18	25	Your personal Brand (Using social media)		Purdy	TP2
14	11/23		Thanksgiving Holiday (YES, a great time to celebrate with your family)			
	11/25					
15	11/30	26	Life Cycle and the Engineer			
	12/2	27	Space for Extra Content for Misalignment			HW9
16	12/7	29	No Final EXAM			
	12/11	30	ENJOY your WINTER BREAK			

HW	Homework-Deliverables
HW 1	How Do Engineering Constraints Guide Design Response
HW 2	What are the Attributes of a Team in Design
HW 3 a&b	Presentation Exercise
HW 4	Codes, Specifications & Standards
HW 5	Engineering Ethics and Professionalism
HW 6	Analysis of your Social Media Profile
HW 7	Planning and Consider the Future Career
HW 8	Analysis of Ideas for Sustainability
HW 9	The Benefit of extracurricular experiences
TP	Technical Paper-Deliverables
TP1	Technical Paper Outline and Short list References
TP2	Receipt of Writing Center Review
TP3	Complete Technical Paper
PD	Project Deliverable – Ratliff Relay (Team Project)
PD1	Proposed Design for Machine
PD2	Project Design and Drawing Explanation
PD3	Photos and Video of Project Development and Operation
PD4	Final Project display and competition
PD5	Final Project Report

ASSIGNMENTS – FINAL NOTES

All graded events are mandatory and used to compute your final grade in the course. Failure to submit any required work will result in a lower grade and **you may receive an Incomplete “I” in the course if all assignments have not been submitted.** All submissions are due in class on the date specified on the assignment or the course schedule. Final grades will be determined based on the assignments submitted and the overall class average. If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence.

Laptops/PDAs/iPads/any MP3 players/Cell Phones or other electronic devices:

With the delivery platform consideration for this course all electronic devices necessary to complete the assignments or make connection for participation in the course are approved. Need for electronic devices may be identified specifically for certain class topics. Please be aware that I will **not record** the class through the ZOOM platform. However, with approved absence as arranged above, I will make portions of the lecture available in some format for your review and will provide the address for that download in a timely fashion after the lecture. Lecture recording or photos of board notes is not permitted. Only students with documented and approved SAR will be allowed to use a recording device, but the instructor must have a completed SAR on file and notice given before recording begins.

USE of Artificial Intelligent Systems (AI in Engineering Studies)

The use of AI and the resources provided within this technology sphere are approved within the scope of this course for any assignment and resulting deliverable for grade consideration. The Guardrails for this use allowance are however straight forward.

1. Any use or consideration of information from such a tool **MUST** be disclosed to and discussed with the instructor **BEFOR** use is authorized. Use the checklist below.
2. You may use the tools for spelling, grammar, written clarity and as a polishing resource for your work without attribution as this is normally expected with current writing applications..
3. You may not use the AI tools for primary content, research summaries of the internet, compilation of briefs, summaries of various sources description of topics or the depth in which **YOU** choose to cover the material. This should be consistent with the level of expectation of this course.
4. Depth of content beyond the expected rigor of the course content will be subject to more focused assessment of the AI usage for the assignment.

Student AI Use Checklist (Read Before You Submit)

Before turning in any assignment, ask yourself the following questions:

Understanding & Learning

- ☐ Did I personally do the thinking, analysis, and problem-solving required for this assignment?
- ☐ Can I explain my solution, design choices, or reasoning without help from AI?
- ☐ Did AI support my learning rather than replace it?

Appropriate Use

- ☐ Did I only use AI in ways allowed for this type of assignment (homework, lab, project, reflection, etc.)?
- ☐ Did I avoid using AI on quizzes or exams unless explicitly permitted?
- ☐ Did I verify all calculations, results, and technical content myself?

Integrity & Responsibility

- ☐ Is all submitted work accurate, original, and honestly represented?
- ☐ Did I avoid copying or submitting AI-generated content as my own work?
- ☐ Did I avoid fabricating data, sources, or results using AI?

Disclosure

- ☐ Did I clearly disclose my AI use at the end of the assignment?
- ☐ Did my disclosure state *what tool* I used and *how* I used it?

If you answered “no” to any of these questions, revise your work before submitting.

Remember: using AI responsibly is part of becoming a professional engineer. The goal is not to avoid AI—but to use it ethically, transparently, and thoughtfully.

This declaration is required at the bottom of **ALL SUBMITTED** work for graded consideration

AI Use Declaration:

I affirm that any use of artificial intelligence tools for this assignment complied with the AI use policy stated in the course syllabus. The submitted work reflects my own understanding and effort, and I take full responsibility for its content.

I understand that failure to accurately disclose AI use or using AI beyond the scope permitted by the syllabus may constitute a violation of academic integrity policies.

Student Name: _____

Course / Section: _____

Assignment Title: _____

Date: _____

Additional Academic policies regarding withdrawal from the course, state-mandated course drop rule, grade forgiveness, student rights, absence for religious observance, grade replacement, social security and privacy, learning disability, academic dishonesty and others can be found at

<http://www.uttler.edu/academicaffairs/syllabuspolicies.pdf> . And are reproduced for your convenience on the CANVAS webpage for the course.