

**The University of Texas at Tyler**  
**College of Engineering**

**CENG 4109: Preparation for Professional Practice in Civil Engineering**

**SPRING 2022 SYLLABUS**

**Description:**

Course focused on the preparation for Professional Practice through the study of professional ethics, organizations, licensure, and necessity for life-long learning specifically with preparation for the first step toward Professional licensure the Fundamental of Engineering Examination. Each student will develop the necessary focus on their professional development following graduation. One hour of lecture per week.

**Prerequisite:**

Senior Design 1 or concurrent enrollment.

**Meeting Time and Location:**

ONLINE ONLY

**Textbook:**

There is no assigned textbook for this course.

**Facilitator:**

Dr. Michael Gangone

Email: [mgangone@uttyler.edu](mailto:mgangone@uttyler.edu)

Office Hours: TUES/WED 2-3:30 pm and Thursday 9:30-10:30 am or by appointment

**Student Learning Outcomes:**

- a. Define the process for licensure as a Professional Engineer.
- b. Take advantage of review and refresher for FE content.
- c. State advantages of involvement in professional and civic societies.
- d. Access and explain Engineering Codes of Ethics and case studies describing ethical problems.
- e. Recognize an ethical problem and use critical thinking skills to construct and defend a solution to an ethical problem.
- f. Write a professional development plan.

**Class Schedule\*:**

<b>Week</b>	<b>Topic</b>	<b>Video Instructor</b>
1	FE Review: Mathematics FE Review: Ethics	Dr. Michaelson – Marshall University
2	FE Review: Engineering Economics	Dr. Saygili and Dr. Michaelson
3	FE Review: Statics FE Review: Dynamics	Dr. Vechione Dr. Michaelson
4	FE Review: Mechanics of Materials	Dr. McGinnis and Dr. Michaelson
5	FE Review: Fluid Mechanics	Dr. Gangone
6	FE Review: Surveying FE Review: CE Materials	Dr. Vechione Dr. Gangone
7	FE Review: Transportation Engineering	Dr. Michaelson – Marshall University
8	FE Review: Geotechnical Engineering	Dr. Saygili and Dr. Michaelson
9	FE Review: Water Resources FE Review: Environmental Engineering	Dr. Michaelson Dr. Gude - MSU
10	FE Review: Structural Analysis and Design	Dr. Michaelson – Marshall University
11	FE Review: Construction Management	Dr. Saygili
12	Professional Practice Topics	
13	Professional Practice Topics	
14	Professional Practice Topics	

\* This is a proposed schedule. You do not need to follow the order outlined in weeks 1-11. Weeks 12-14 you will need to focus on professional practice/development.

NOTE: Some of the review videos are provided by faculty from UT Tyler. Some are also found on YouTube by Dr. Michaelson, P.E. – Marshall University and Dr. Gude – Mississippi State.

## **Assignments and Grading Criteria:**

Professional Practice = 20%

- Attendance at 5 ASCE/ITE/CMsA technical meetings or career fair

Written Assignments = 20%

Submission of FE Registration = 20%

Submission of FE Results = 40% max

- Pass the exam = 40%
- Unsuccessful Attempt = 27%

## **Grade Scale:**

A: 90-100

B: 80-89

C: 70-79

D: 60-69

F: <60

## **Written Assignments:**

You will be required to view 5 videos related to professional development and submit a response to each. A paper template is provided for you to complete your response. These five papers will account for 20% of your overall grade.

## **Professional Practice:**

Your professional practice grade will consist of 20% of your overall grade in the class. This will be based on your attendance at **5 ASCE/ITE student technical meetings** (cookout and game night events do not count) throughout the spring semester. Example of valid meetings include guest speakers, field trips, career fair, ASCE Region 6 Student Symposium (for those traveling with concrete canoe) and local branch meetings for ASCE. A template will be provided online for you to download the complete for each event you attend. Once you have attended 5 events upload them as one document.

## **Your Responsibility:**

It is your responsibility to keep up with the schedule shown. This means the first 11 weeks of the semester you should be fully dedicated to spending time to and studying for the FE exam. **By April 29 at the latest, you should have submitted your FE registration and results.** NOTE, that it takes 10-14 days to receive your results. Therefore, you should plan on registering for the exam no later than April 18, 2022. There will be no exceptions at the end of the semester! So plan ahead. Register for a date early so that you can obtain your results on time. Any professional practice topics will be announced when they have been determined along with any corresponding assignments if necessary.

## ***UNIVERSITY POLICIES AND ADDITIONAL INFORMATION THAT MUST APPEAR IN EACH COURSE SYLLABUS***

### **UT Tyler Honor Code**

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

### **Students Rights and Responsibilities**

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

## **Campus Carry**

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

## **UT Tyler a Tobacco-Free University**

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation programs available to students looking to quit smoking, including counseling, quit-lines, and group support. For more information on cessation programs please visit [www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free).

## **Grade Replacement/Forgiveness and Census Date Policies**

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. (For Fall, the Census Date is Sept. 12.) Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date (Sept. 12th) is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through

## **Financial Aid State-Mandated Course Drop Policy**

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

## **Student Accessibility and Resources**

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and

the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the [Student Accessibility and Resources](#) (SAR) office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to [cstaples@uttyler.edu](mailto:cstaples@uttyler.edu)

### **Student Absence due to Religious Observance**

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

### **Student Absence for University-Sponsored Events and Activities**

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. At that time the instructor will set a date and time when make-up assignments will be completed.

### **Social Security and FERPA Statement**

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

### **Emergency Exits and Evacuation**

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

### **Student Standards of Academic Conduct**

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

- i. "Cheating" includes, but is not limited to:
  - copying from another student's test paper;
  - using, during a test, materials not authorized by the person giving the test;
  - failure to comply with instructions given by the person administering the test;
  - possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
  - using, buying, stealing, transporting, or soliciting in whole or part the contents of an un-administered test, test key, homework solution, or computer program;
  - collaborating with or seeking aid from another student during a test or other assignment without authority;
  - discussing the contents of an examination with another student who will take the

- examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructor has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
  - substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
  - paying or offering money or other valuable thing to, or coercing another person to obtain an un-administered test, test key, homework solution, or computer program or information about an un-administered test, test key, home solution or computer program;
  - falsifying research data, laboratory reports, and/or other academic work offered for credit;
  - taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
  - misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
- ii. “Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.
- iii. “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
- iv. All written work that is submitted will be subject to review by SafeAssign™, available on Blackboard. UT Tyler Resources for Students
- [UT Tyler Writing Center](https://www.uttyler.edu/writingcenter) (903.565.5995), [writingcenter@uttyler.edu](mailto:writingcenter@uttyler.edu)
  - [UT Tyler Tutoring Center](https://www.uttyler.edu/tutoring) (903.565.5964), [tutoring@uttyler.edu](mailto:tutoring@uttyler.edu)
  - The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
  - [UT Tyler Counseling Center](https://www.uttyler.edu/counseling) (903.566.7254)