

University of Texas at Tyler - Department of Civil & Environmental Engineering
CENG 4341: Leadership, Professionalism & Public Policy
Spring 2020

Instructor: Joseph Boylan Office Hours:
RBS 1037 Daily 9 AM – 5 PM
(903) 565-5872 HELP by appointment (email for time)
jboylan@uttyler.edu

Lectures: 28 Classes; 2 Projects
We meet every Tuesday and Thursday from 2 – 3:20 RBS 1031

Course Website:

I will use both the texts and Canvas to manage the course material for the semester. There you will find current grades, lectures, assigned reading, homework assignments, handouts, exams and other material pertaining to the class. **Please check there daily.**

Course Description:

This is a capstone senior class on:

- A. Public policy and its connection to the the engineering profession,
- B. Understanding the unique profession engineering is and what that means with society
- C. Professionalism – what is required of you as an professional engineer
- D. Ethics for the professional engineer
- E. Understand Leadership, Management, Followship, and Team

ALL engineers are professionals and leaders. Engineers must “BE” a practicing professional which also implies you are lifelong learners and contributors to their profession and to society. **As** the key decision maker for complex technical issues being solved for your project (by you or your teams of highly qualified team players) you must know how to deal with great amounts of uncertainty and of risk AND you must learn and master the art of leadership. The tools we will study in this leadership course are real and can be scientific in nature but their application in leading is focused on people and project success – two very metaphysical things. We will also study how to make, influence and change public policy which is critical for all engineers and for your design freedom as you begin your engineering professional career as an engineer in training. This course will tie all these learnings specifically to the required skills and tasks Civil Engineers are required to perform.

Learning Objectives:

1. Know what an “engineer” is and what is engineering. We will investigate what society has defined as required engineering skills expected on an engineer professionally.
2. We will look at the link between Engineering and Society which is public policy and we will investigate the “public policy” model we practice engineering in.

3. This course will investigate what is public policy, how it is made, and we will discuss why engineers must understand and participate in public policy formation.
4. Understand the professional T model of development for a profession
5. We will investigate what the knowledge, practice, competence required for society to recognize a profession.
6. We will investigate the professional requirements for you to become a professional in a professional association and examine how this impacts concepts of identity and community.
7. Understand the concepts in “leadership” and specifically engineering leadership.
8. Understand what a manager is and what management does.
9. Understand what a team player/follower is and how they best support a team.
10. Understand what is required *in practice* and *character* of an engineer and a leader
11. Look at the TRUST between a professional and society and why this is so critical to sustain.
12. Look at briefly at contracts, Contract Law, obligations under contractual arrangements.
13. Look at the ethics expected of you as an engineering/technology leader and professional.

Prerequisite:

Senior standing and department chair approval

Required Text:

1. **Public Policy 6th Edition** by Michael Kraft and Scott Furlong SAGE , ISBN 9781506358154
2. **Leadership** by Northouse 8th edition , ISBN 9781506362311, Sage Publishing
3. **Common Sense Construction LAW** by Smith and Currie, Wiley, ISBN 978-1-118-85810-3

Final Grade Contribution

Exam and POP Quizzes (5 total)	50%
Professional Practice*	10%
Code of Ethics Project	20%
Public Policy Project	20%
	100%

Exams and Pop Quizzes:

There will be a total of 5 announced exams or unannounced quizzes this semester.

There is NO final examination.

Professional Practice – this is my subjective grade based upon your participation in this course.

****NOTE:**

There will be no makeup work or extra credit allowed/granted at the end of the semester. All assignments must be turned in at the appropriate due date and time to receive credit.

There is NO credit given for late assignments. Emergencies will be handled on a case by case basis. **IF you miss a deadline please contact me as soon as possible for a possible LATE SUBMISSION approval. I reserve the right to grant or deny this approval for a late assignment.**

THERE ARE NO MAKE-UP EXAMS GIVEN WITHOUT AN EXCUSED ABSENCES. A note from a medical professional is required for any absence due to illness.

All Graded Events are mandatory and becomes part of your grade. Failure to submit any required work will result in an incomplete. As an engineer your goal is to make a clear, logical, and professional presentation of your work, which is both accurate and correct. As such both your presentation and the accuracy of your work is important, and both will be graded. All submissions are due on the due date assigned through the Canvas which **should be uploaded to Canvas. Assignments are due by 5 PM on their due date. No late submissions will be awarded credit unless an extension was given by the instructor *prior to the due date.***

Reading Discussion Questions:

Reading or videos will be assigned when necessary for a lesson for your review. You are required to review these prior to the next lesson. There will be questions you will need to answer in class –this is your participation and professionalism grade.

Class Discussion Post Participation Activities:

You will be required to participate in class discussion and various project tasks for a grade. You should:

1. Give the project your best efforts and equally carry the load – don't be the weak link! *I will ask team mates to anonymously grade their team mates and this team-mate grade will count for your grade!*
2. Express your ideas and thoughts clearly and openly but remember keep the dialogue professional and focused on the issues of the course. These should be a learning/growth tool used for your professional development.

2 Legacy Projects:

Each student is required to participate two key project. You will be part of a team that will wrestle with some topic in the course, write a paper analysis, and make a presentation of your solution as a team. Details will be announced in class.

Final day to withdraw:

The final day to withdraw from the course without penalty is **April 2st 2020!**

Census dates:

The university requires that instructors to report the attendance to the register at various points in the semester. In Canvas I will have a class leader take roll and mark your attendance for that lecture. These lectures are required. An unauthorized absence will impact your final grade.

Academic Misconduct: Plagiarism of homework, submitted written paper assignments and cheating on examinations will be interpreted as academic misconduct and will not be tolerated. Please refer to the University of Texas at Tyler current Undergraduate Catalog for academic policies and Manual of Policies and Procedures for Student Affairs (MOPPS, Chapter 8), regarding academic integrity, cheating and plagiarism. Allegations of academic dishonesty will be immediately referred to the office of Student Affairs and the UT Tyler Judicial Affairs, , Ignorance of the rules and policies provides no protection from the consequences.

UT Tyler Honor Code:

I embrace honor and integrity. Therefore, I choose not to lie, cheat or steal, nor to accept the actions of those who do.

Collection of Student Work:

Throughout the semester I will collect student work (best, average, and worst) for the ABET outcomes notebooks. This will require me to make a copy of your work, keep your original and return a copy of the graded work to you. I will not draw attention as to what level of work you accomplished. **NOTE: On certain assignments, if your work is deemed to be unsatisfactory you may be asked to resubmit the assignment until it becomes satisfactory.**

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/StudentRightsandResponsibilities.html> .

Grade Replacement/Forgiveness and Census Date Polices: 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. 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 is the deadline for many forms and enrollment actions that students need to be aware of. 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.

Petitions for exemptions must be submitted to the Registrar's Office and must be accompanied by documentation of the extenuating circumstance. Please contact the Registrar's Office if you have any questions.

Disability Services: 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 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

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

Prepared by: Joseph Boylan
 Instructor
 Department of Civil Engineering and Construction Mgmt.

4341 Course Schedule (Subject to change as needed throughout the semester)				
Date	Lesson	Topic for Class	Reading	Assignment
1/14/2020	1	Syllabus and Intro/Project	Canvas Module 1	Teams for next class
1/16/2020	2	Public Policy	TEXT Chapter 1	
1/21/2020	3	Public Policy -	Chapter 2	
1/23/2020	4	Public Policy	Chapter 3	
1/28/2020	5	PP Project Teams assigned and project team time	Canvas	
1/30/2020	6	PP Project Time		
2/4/2020	7	PP Project Time Briefing		First Group For grade
2/6/2020	8	Engineering Ethics Exam#1		Canvas Test and Answer Sheet
2/11/2020	9	PP Project Time Briefing		2 nd group For grade
2/13/2020	10	Texas, Engineering and the LAW? DO I NEED A PE??	Canvas Texas PP Engineering Law	Read Pages 1-11 to Qualified Scientists
2/18/2020	11	Texas, Engineering Qualifications	Canvas Texas PP Engineering Law	Read pages 19-27; 41-49
2/20/2020	12	Texas and Engineering Ethics?	Canvas Texas PP Engineering Law	Pg 59-61
2/25/2020	13	What is Profession? What is a professional?	Canvas - Colby Sullivan Paper and Fledderman article	Team presentation to class
2/27/2020	14	Professional Duty of Care	Canvas Paper and Fledderman article	Team presentation to class
3/3/2020	15	Lead-er-ship and Management	Northrup Chp 1 TEXT	Team presentation to class
3/5/2020	16	Follow-ship	Northrup Chp 12	Team presentation to class
3/24/2020	17	Leadership and Followship Ethics	“ Chp 13	
3/26/2020	18	Team Ethics Project Defined & team time	Canvas	
3/31/2020	19	Team Ethics Project Time		
4/2/2020	20	Team Ethics Project Time		
4/7/2020	21	Ethics Project Briefing to Dean and Dept Heads	For Grade	Team presentation
4/9/2020	22	KR Law & Construction	Smith/Currie TEXT CHP 1	
4/14/2020	23	KR Interpretation	Chp 2	
4/16/2020	24	ECP and P3 Projects for the Engineering Designer	Chp 4	
4/21/2020	25	Duties and Accountabilities of Design Professional	Chp 9	
4/23/2020	28	Course Survey		
