

1. CEE 4920 - Professionalism and Ethics
2. Course credit hours: 1
Contact hours per week: 1
Credit category: Engineering Topics
3. Course coordinator: Steven E. Qualls
4. Textbook: N/A

Supplemental materials: Engineering Ethics; Concepts and Cases (2005, 3rd Edition).
Harris, Charles; Pritchard, Michael S.; and Rabins, Michael)

5. Course information:

2020 Catalog description	A discussion of the ethical, social, and economic considerations in engineering practice, and professional and technical societies.
Prerequisite(s)	Senior standing
Course type	Required

6. Course instructional outcomes:

Course Outcome No.	Course Outcome (CO)	ABET Student Outcome
CO1	Recognize ethical engineering problems when they occur	4
CO2	Locate and apply the Codes of Ethics for ASCE, NSPE, and ABET.	4
CO3	Locate and apply the Rules of a Board of Architectural and Engineering Examiners in selected jurisdictions	4, 7
CO4	Complete the TTU online sexual harassment training and pass the associated online examination	4
CO5	Locate and document resource material from professional organizations that can assist with ethical decision making and professional issues	4, 7
CO6	Initiate the professional registration process by graduating with the BSCE degree and taking the FE exam	4, 7

ABET criterion 3 Student Outcomes addressed by this course:

SO No.	Student Outcome (SO)
3.4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
3.7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

7. Course topics:

1. General introduction (1 class)

2. Career services and professional presentation (1 class)
3. Non-discrimination and sexual harassment in the workplace (1 class)
4. Engineering codes of ethics, ethical decision making guidelines (3 classes)
5. Case study review and discussion (2 classes)
6. Professional registration, professional societies, and obligations (3 classes)
7. ASCE Body of Knowledge, curriculum design, and life-long learning (1 class)
8. External presentations – Professional registration (2 classes)
9. Testing and assessment (1 class)

Program criteria (curriculum) addressed by this course:

1. Explain the importance of professional licensure
2. Explain basic concepts in project management, business, public policy, and leadership

8. Additional topics, assignments, or requirements for dual-level (4000/5000) course:

N/A

9. Date: 07/14/2020