

CE 4200

Professional Engineering Practice Issues

Spring 2022 Semester

William D. Lawson, P.E., Ph.D.

Education & Careers

ASCE CONTINUING EDUCATION

- Continuing Education
- Conferences and Events

LICENSURE & CERTIFICATION

- Getting Licensed and Certified
- Live Exam Reviews
- Professional Certifications
- Civil Engineering Body of Knowledge

CAREER & WORKFORCE DEVELOPMENT

- Civil Engineering Body of Knowledge
- Diversity & Inclusion
- Civil Engineering Salaries
- Careers
- Leadership Training

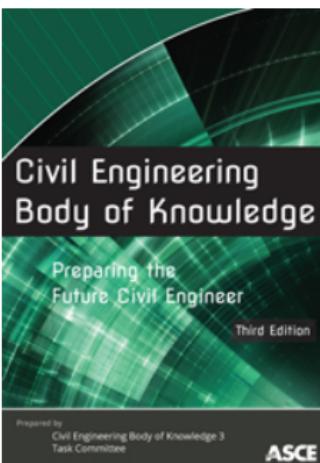
CIVIL ENGINEERING BODY OF KNOWLEDGE

Civil engineering is a demanding field that requires a broad knowledge base and combinations of skills to practice successfully as a professional.

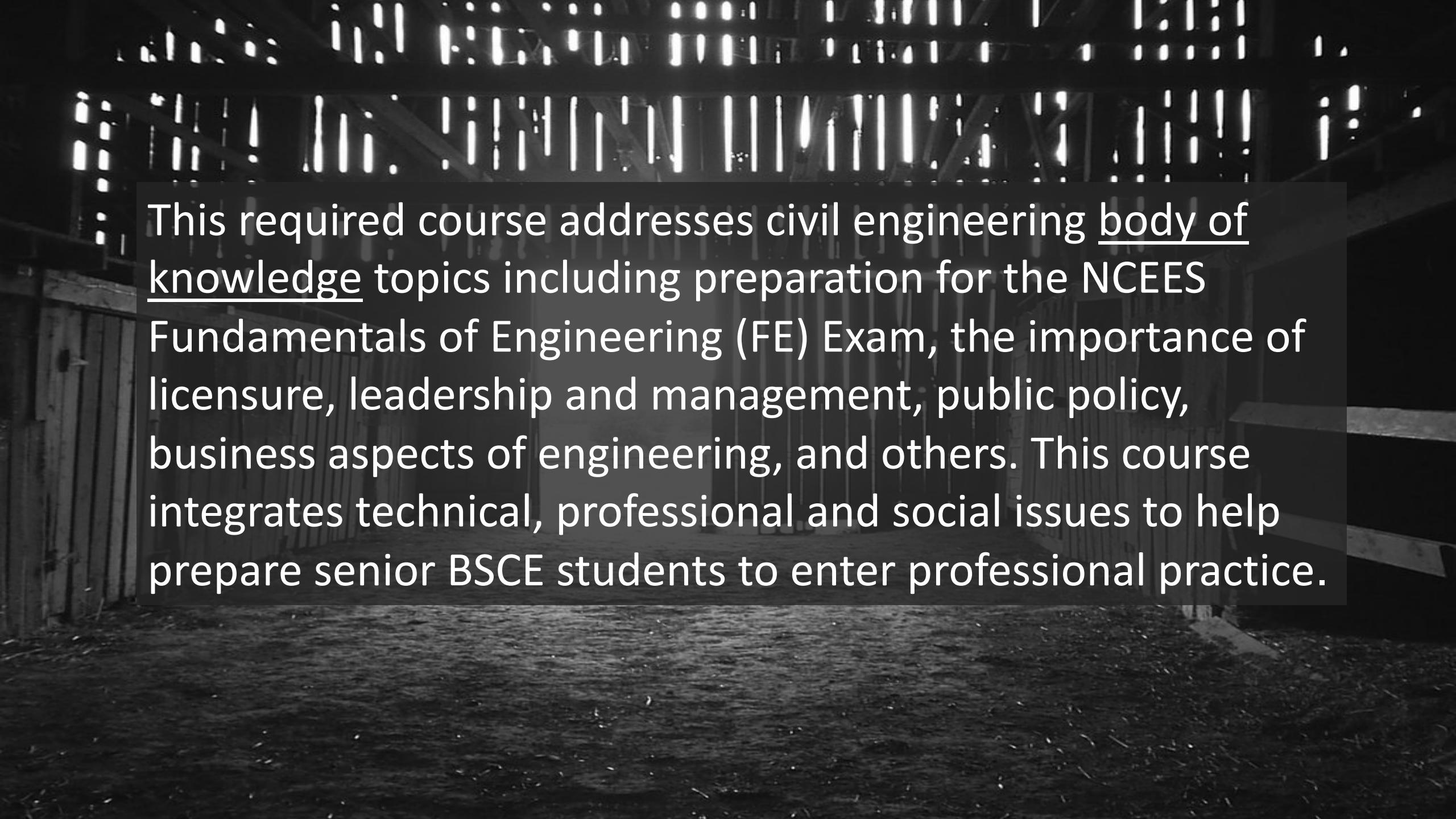
PURPOSE

The purpose of the *Civil Engineering Body of Knowledge* is to define the knowledge, skills, and attitudes needed to enter into professional practice.

Download a free PDF copy of the Civil Engineering Body of Knowledge: Preparing the Future Civil Engineer (3rd Edition)

**DOWNLOAD 3RD EDITION (PDF)**

Civil Engineering Body of Knowledge: Preparing the Future Civil Engineer, Third Edition, outlines 21 foundational, technical, and professional practice learning outcomes for individuals entering the professional practice of civil engineering. Recommendations for fulfilling the outcomes through formal education, both at the undergraduate and postgraduate levels, and mentored early career experience are provided.



This required course addresses civil engineering body of knowledge topics including preparation for the NCEES Fundamentals of Engineering (FE) Exam, the importance of licensure, leadership and management, public policy, business aspects of engineering, and others. This course integrates technical, professional and social issues to help prepare senior BSCE students to enter professional practice.

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ASCE BODY OF KNOWLEDGE (CEBOK3 & CEBOK2)

Exercise 1.1

What does it take
to be a **SUCCESSFUL** Civil Engineer?



1. Think about and jot down at least 3 skills – *other than* technical competency – you think are necessary to successfully practice civil engineering (individual assignment).
2. Be prepared to discuss your ideas.

Civil Engineering Body of Knowledge: Preparing the Future Civil Engineer

ASCE Policy Statement 465

The screenshot shows the ASCE website's navigation bar at the top, featuring the ASCE logo and links for Membership & Communities, Education & Careers, Conferences & Events, and Issues & Advocacy. Below the navigation is a breadcrumb trail: Issues & Advocacy > Public Policy Statements >. On the left side, there is a sidebar titled "KEY PROGRAMS" containing sections for "Infrastructure" (with links to 2017 Report Card, Failure to Act Reports, Infrastructure Policy Reports, and Life Cycle Cost Analysis Report), "Engineer Tomorrow" (with links to Sustainability at ASCE, Sustainability Resources, Sustainability Project Profiles, Envision, and Sustainable Infrastructure Certificate), and "Sustainability". The main content area on the right is titled "POLICY STATEMENT 465 - THE CIVIL ENGINEERING BODY OF KNOWLEDGE AND THE PRACTICE OF CIVIL ENGINEERING". It includes approval dates: July 16, 2019 (Committee on Preparing the Future Civil Engineer), July 24, 2019 (Committee on Professional Advancement), August 9, 2019 (Public Policy Committee), and October 14, 2019 (Board of Direction). A section titled "POLICY" describes the support for the CEBOK as a requirement for civil engineering practice.

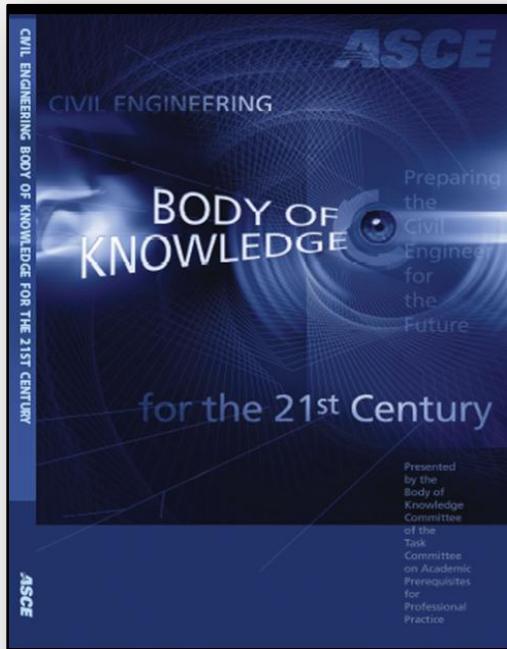
POLICY STATEMENT 465 - THE CIVIL ENGINEERING BODY OF KNOWLEDGE AND THE PRACTICE OF CIVIL ENGINEERING

Approved by the Committee on Preparing the Future Civil Engineer on July 16, 2019
Approved by the Committee on Professional Advancement on July 24, 2019
Approved by the Public Policy Committee on August 9, 2019
Adopted by the Board of Direction on October 14, 2019

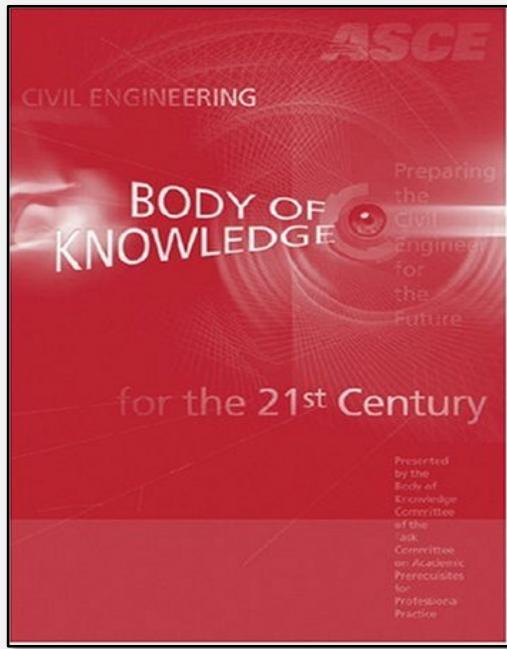
POLICY

The American Society of Civil Engineers (ASCE) supports the attainment of the Civil Engineering Body of Knowledge (CEBOK) as a requirement for exercising responsible charge in the practice of civil engineering. The CEBOK is defined as the knowledge, skills, and attitudes necessary to exercise responsible charge in the practice of civil engineering and is attained through undergraduate and post-graduate engineering education, mentored experience, and self-development. Licensure constitutes a legal authority to practice engineering, however, the requirements for licensure do not ensure attainment of the CEBOK.

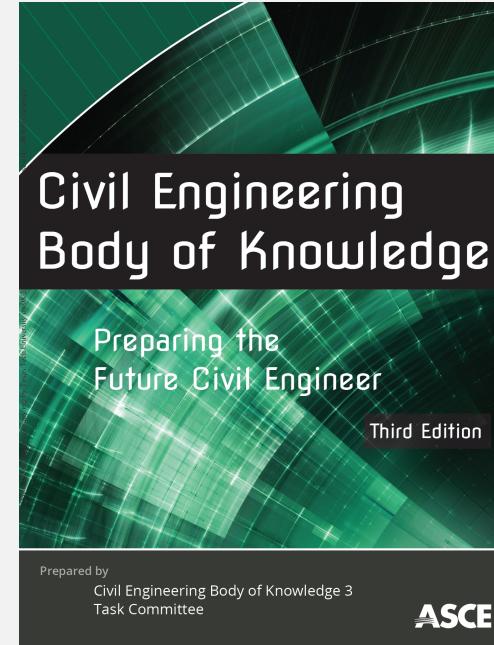
ASCE encourages institutions of higher education, governments, employers, engineers,



CEBOK1 (2004)



CEBOK2 (2008)



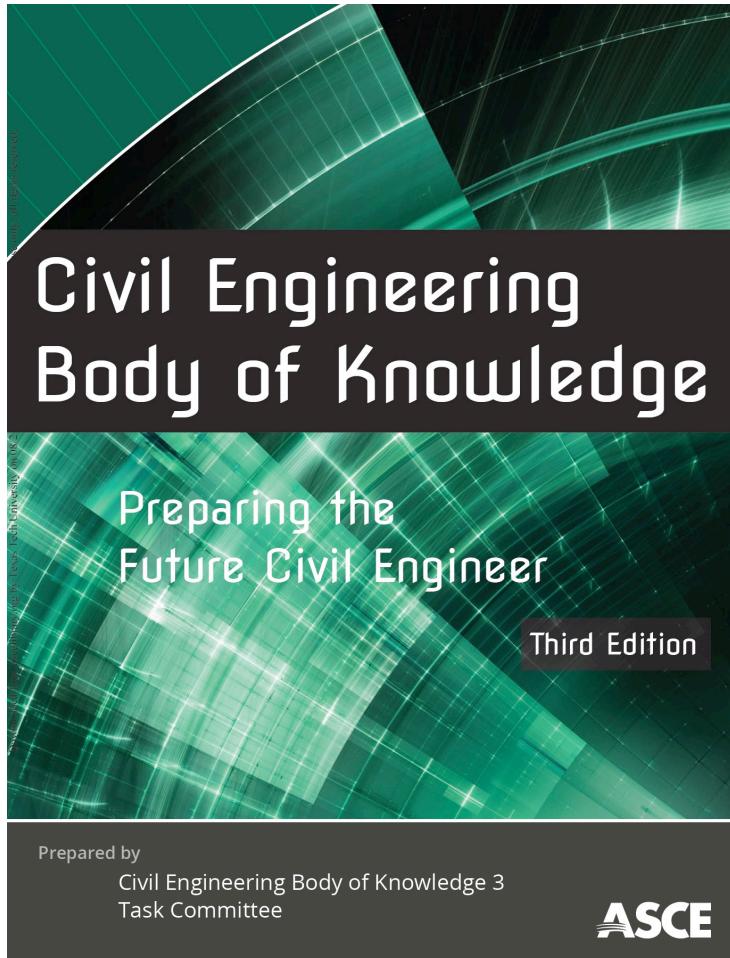
CEBOK3 (2019)

Outcomes

Civil Engineering Body of Knowledge for the 21st Century

- Outcomes are statements that describe what individuals are expected to know and be able to do by the time of entry into the practice of civil engineering at the professional level in the 21st century—that is, attain licensure.
- Outcomes define the knowledge, skills, and attitudes that individuals acquire through appropriate formal education and pre-licensure experience.

CEBOK3



- Published Mar 2019
- Compliant with 2016-17 and later ABET Program Objectives
- 21 Learning Outcomes
- Cognitive and Affective levels of achievement

CEBOK3 Outcomes

Civil Engineering Body of Knowledge for the 21st Century

Table ES-1. *Civil Engineering Body of Knowledge Outcomes.*

Foundational	Engineering Fundamentals
Mathematics	Materials Science
Natural Sciences	Engineering Mechanics
Social Sciences	Experiment Methods and Data Analysis
Humanities	Critical Thinking and Problem Solving
Technical	Professional
Project Management	Communication
Engineering Economics	Teamwork and Leadership
Risk and Uncertainty	Lifelong Learning
Breadth in Civil Engineering Areas	Professional Attitudes
Design	Professional Responsibilities
Depth in a Civil Engineering Area	Ethical Responsibilities
Sustainability	

Example 1.2

CEBOK3 Professional Responsibilities



1. Domain (cognitive or affective)
2. Level of achievement (SIX levels, Bloom's taxonomy)
3. Demonstrated ability (note the verb)
4. Typical pathway (expert status, for licensure, for undergraduate study)

Professional Responsibilities

Table 2-20a. Professional Responsibilities (Cognitive Domain).

Cognitive Domain Level of Achievement	Demonstrated Ability	Typical Pathway
1 Remember (remember previously learned material)	Identify professional responsibilities relevant to the practice of civil engineering, including safety, legal issues, licensure, credentialing, and innovation.	Undergraduate education
2 Comprehend (grasp the meaning of learned material)	Explain professional responsibilities relevant to the practice of civil engineering, including safety, legal issues, licensure, credentialing, and innovation.	Undergraduate education
3 Apply (use learned material in new and concrete situations)	Apply professional responsibilities relevant to the practice of civil engineering, including safety, legal issues, licensure, credentialing, and innovation.	Mentored experience
4 Analyze (break down learned material into its component parts so that its organizational structure may be understood)	Illustrate professional responsibilities relevant to the practice of civil engineering, including safety, legal issues, licensure, credentialing, and innovation.	Mentored experience
5 Synthesize (put learned material together to form a new whole)	Integrate professional responsibilities relevant to the practice of civil engineering, including safety, legal issues, licensure, credentialing, and innovation.	Mentored experience
6 Evaluate (judge the value of learned material for a given purpose)	Assess the integration of professional responsibilities relevant to the practice of civil engineering, including safety, legal issues, licensure, credentialing, and innovation.	

Table 2-20b. Professional Responsibilities (Affective Domain).

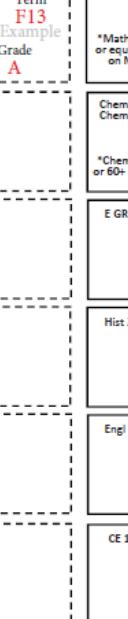
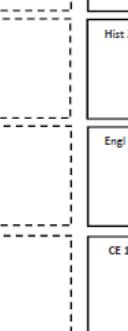
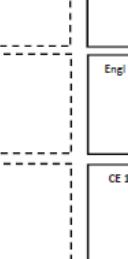
Affective Domain Level of Achievement	Demonstrated Ability	Typical Pathway
1 Receive (be aware of, willing to receive, and be attentive to a particular phenomenon or behavior)	Acknowledge professional responsibilities relevant to the practice of civil engineering including safety, legal issues, licensure, credentialing, and innovation.	Undergraduate education
2 Respond (actively participate in activity, attend to task, react to motivation)	Examine professional responsibilities relevant to the practice of civil engineering including safety, legal issues, licensure, credentialing, and innovation.	Undergraduate education
3 Value (attach value to particular object, phenomenon, or behavior)	Value professional responsibilities relevant to the practice of civil engineering including safety, legal issues, licensure, credentialing, and innovation.	Mentored experience
4 Organize (sort values into priorities by contrasting different values, resolve conflicts between them, and creating a unique value system)	Form judgments about professional responsibilities relevant to the practice of civil engineering including safety, legal issues, licensure, credentialing, and innovation.	Self-developed
5 Characterize (follow a value system that controls behavior that is pervasive, consistent, predictable, and a defining characteristic)	Advocate for professional responsibilities relevant to the practice of civil engineering including safety, legal issues, licensure, credentialing, and innovation.	

Where This Course Fits In



<http://www.iheartorganizing.com>

Civil Engineering Curriculum

Dynamic Enrollment Management Plan Curriculum for Bachelor of Science Civil Engineering Texas Tech University									
Name: _____					Date Entered COE: _____ Date Entered CE: _____				
R #: _____									
Pre-Entry Term F13 Example Grade A	Freshman		Sophomore		Junior		Senior		
	Math 1451 <small>*Math 1350 or equiv. > 7 on MPE</small>	Math 1452 <small>*Math 1451</small>	Math 2450 <small>*Math 1452</small>	Math 3350 <small>*Math 1452</small>	CE 3309 CE 3171 <small>*CE 3305 *Chem 1308 Chem 1108</small>	CE 3372 <small>CE 3354</small>	CE 4330 <small>See Note D *Last Full Semester</small>		
	Chem 1307 Chem 1107 <small>*Chem 1301 or 60+ on CPE</small>	Chem 1308 Chem 1108 <small>*Chem 1307 Chem 1107</small>	ECE 3301 <small>*Math 1452</small>	CE 3303 <small>*CE 2301</small>	CE 3354 <small>*CE 3305</small>	CE 3341 <small>*CE 3440</small>	CE 4343 <small>*CE 2201 *CE 3341</small>	Design Elective <small>See Note C</small>	
	E GR1207	Phys 1408 <small>*Math 1451</small>	CE 2301 <small>*Math 1452 *Phys 1408</small>	IE 2324 <small>*Math 1451</small>	CE 3440 <small>*CE 3303</small>	CE 3302 <small>*CE 2301 **Math 2450</small>	Design Elective <small>See Note C</small>	ENGR 2392 <small>*Jr or Sr Standing</small>	
	Hist 2300	ENGR 1315 <small>**Math 1451</small>	CONE 2302 <small>*Math 1321 or equiv.</small>	CE 3305 <small>*CE 2301</small>	CE 3103 <small>*CE 3303</small>	CE 3321 CE 3121 <small>*CE 3303</small>	Oral Comm <small>See Note A</small>	Creative Arts <small>Multicultural See Note B</small>	
	Engl 1301	Engl 1302 <small>*Engl 1301</small>	CE 2201 <small>*MATH 1452 & PHYS 1408</small>	Statistics IE 3341 or Math 3342 <small>*Math 2450</small>	CE 3105 <small>*CE 3305</small>	Pols 2306	CE 4361 <small>*CONE 2302 **CE 3321 & Sr. Standing</small>	Basic Science Elective <small>See Note E</small>	
	CE 1130	Pols 1301	International Experience						
SEE NOTE 1: DEGREE AUDIT SEE NOTE 2: INTENT TO GRADUATE FILED									
Foreign Language Fulfilled: <input type="checkbox"/> YES / <input type="checkbox"/> NO									
<small>* Denotes pre-requisite course(s) **Denotes co-requisite course(s)</small>									
<small>Minimum hours required for graduation: 129</small>									
<small>Note 1: Student can meet with their academic advisor to plan out their last two years, during advance registration planning or separately.</small>									
<small>Note 2: Student must submit an INTENT TO GRADUATE form to the College of Engineering PRIOR to Senior Year.</small>									
<small>ALL COURSES MUST BE PASSED WITH A GRADE OF "C" OR BETTER. See the CEE section of the university catalog for more information.</small>									
<small>Note A: Oral Comm: Core Curriculum A in the catalog or online (http://www.depts.ttu.edu/officialpublications). Note B: Creative Arts & Multicultural: Only ART 1309 will cross apply for both requirements. Note C: Design Electives: choose from CE 4321(f), 4340(s), 4342(s), 4351(s), 4353(f), 4363(s), 4371(f), & ENVE 4307(f), 4391(s), 4399(s) Note D: PRIOR to enrollment in CE 4330, student must be within the last long semester. Note E: Basic Science Elective: GEOL 1303, ATMO 1300, PSS 2330, BIOL 1305, 1401, 1402, or 1403.</small>									
<u>ADVISED BY:</u> _____ <u>DATE:</u> _____									
<u>NOTES:</u> <hr/> <hr/> <hr/>									
<small>Revised August 2016</small>									

Assignment 1: Compare DEMP vs. BOK3I

CE 4200

Professional Engineering Practice Issues

ABOUT THE COURSE

F2F & Distance Course Format



COURSE SYLLABUS
CE 4200 – Professional Engineering Practice Issues (2 credit hours)
Section 001/D01, Civil Engineering Room 007, 12:00pm-12:50pm MW
Spring 2022

2021-22 Catalog Description and Prerequisites

CE 4200. Professional Engineering Practice Issues (2). Prerequisite: Must be within two long semesters of graduation [i.e., May 2022, Dec 2022]. A study of engineering body of knowledge topics to prepare students for engineering practice: topics include the FE Exam, licensure, leadership and others.

Online and Distance Modality Notice

CE 4200, Section 001 has been designated for "Face-to-Face" instruction. CE 4200, Section D01 is designated as "Distance" modality. For all intents and purposes, these two course sections will be combined and taught simultaneously. Technical and/or equipment requirements, including remote proctoring software, are discussed herein.

Instructor

William D. Lawson, P.E., Ph.D; Room 215D, Civil Engr. Bldg.
Phone: 806.834.4484
Email: william.d.lawson@ttu.edu

Available Assistance

The instructor office hours are Tuesday-Thursday, 11:00am-12:00noon, or virtually by appointment
– please schedule by email.

Textbooks (Required)

ASCE (2019). Civil Engineering Body of Knowledge for the 21st Century: Preparing the Future Civil Engineer. Third Edition. American Society of Civil Engineers (ASCE), Reston, VA.
ISBN (PDF): 9780784481974 [[FREE download](#)].

ASCE (2008). Civil Engineering Body of Knowledge for the 21st Century: Preparing the Future Engineer for the Future. Second Edition. American Society of Civil Engineers (ASCE), Reston, VA. ISBN-13: 978-0-7844-0965-7 [[FREE download](#)].

FE Reference Handbook, Edition 10.0.1. National Council of Examiners for Engineering (NCEES), Clemson, SC. Third Printing July 2021. ISBN: 978-1-949200-41-6 [[FREE download](#)].

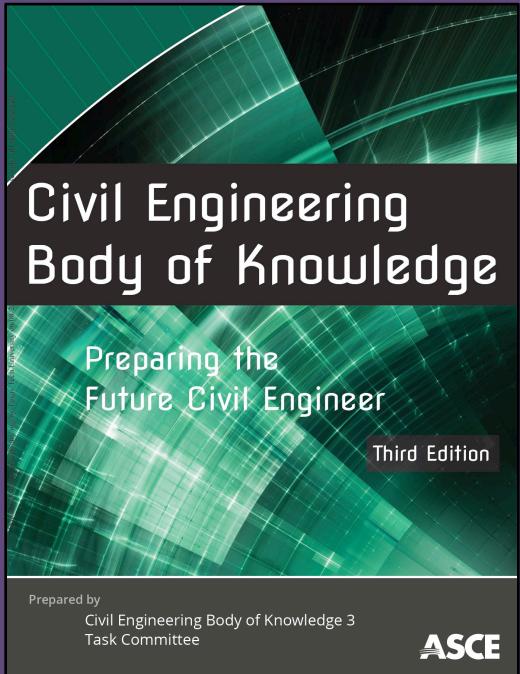
FE Reference Handbook, Edition 10.0.1. National Council of Examiners for Engineering (NCEES), Belmont, CA.

CE 4200-001/D01: Professional Engineering Practice Issues

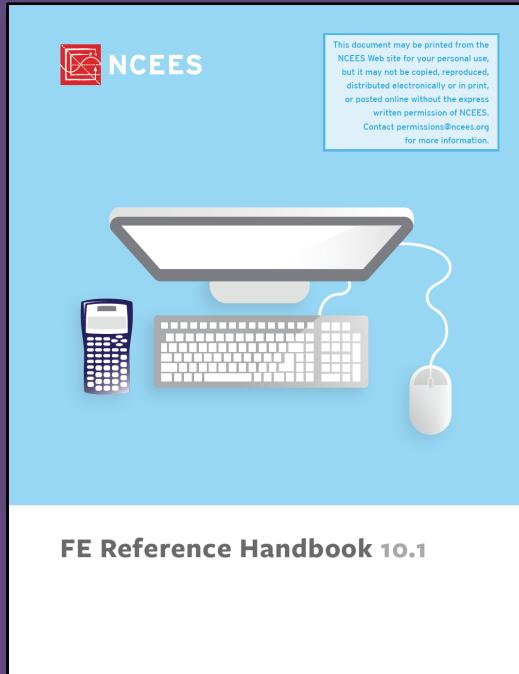
Spring 2022 Course Schedule

Spring 2022 Course Schedule						
CE 4200-001/D01: Professional Engineering Practice I				BOK3E Outcome	Instructor	Instruct Modality
Mtg No.	Date	Day	Topic			Assignment
1	12-Jan	W	ASCE Body of Knowledge/ Course Introduction		Lawson	F2F
2	17-Jan	M	Martin Luther King, Jr. Day Holiday			Assign 1 (100 pts) 19-Jan
3	19-Jan	W	Trust and Trustworthiness in Engr-Client Relations	19	Lawson	F2F
4	24-Jan	M	Attitudes Beneficial to Civil Engineering	19	Lawson	F2F
5	26-Jan	W	Early Career Guidance	19	Lawson	F2F
6	31-Jan	M	Engineering Licensure & Application	20	Lawson	F2F
7	2-Feb	W	NCEES Fundamentals of Engineering (FE) Exam	20	Lawson	F2F
8	7-Feb	M	FE Exam Performance	MFE	20	Mock FE (200 pts) 02/09 02/22
9	9-Feb	W	FE Exam Knowledge & Preparation	MFE	20	Lawson
10	14-Feb	M	FE Exam Based Selection	MFE	20	Lawson
11	16-Feb	W	Qualifications Based Selection	MFE	20	∅
12	21-Feb	M	Engineering Job Fair (Civic Center)	MFE	20	∅
13	23-Feb	W	No lecture (Mock FE)		17	Lawson
14	28-Feb	M	Leadership in Civil Engineering		17	Lawson
15	2-Mar	W	Diversity & Inclusion		17	Online
16	7-Mar	M	Ted Talks: Leadership Excellence		9	Lawson
17	9-Mar	W	Ted Talks: Leadership Excellence		9	Online
18	14-Mar	M	Project Management: Introduction		9	Video
19	16-Mar	W	Project Management: Traditional Topics		9	F2F
20	21-Mar	M	Project Management: Traditional Topics		9	Video
21	23-Mar	W	Quiz 1 (50 pts)		9	
22	28-Mar	M	Bonus 4 (25 pts)		9	
23	28-Mar	W	Bonus 4 (25 pts)		9	
24	11-Apr	M	Spring Vacation		9	
25	11-Apr	W	Assignment		9	
26	11-Apr	M	Assignment		9	
27	11-Apr	W	Assignment		9	
28	11-Apr	M	Assignment		9	
29	11-Apr	W	Assignment		9	
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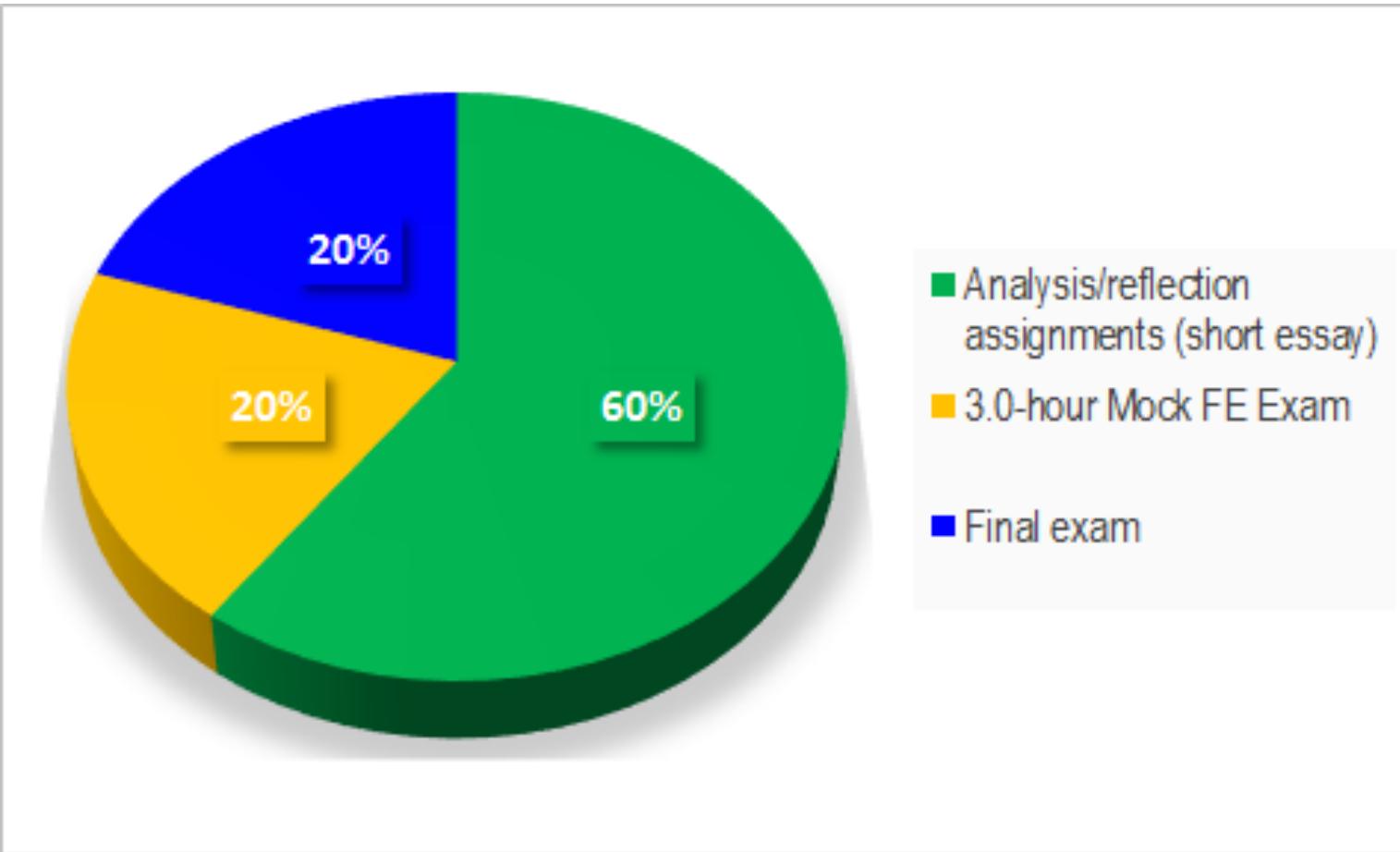
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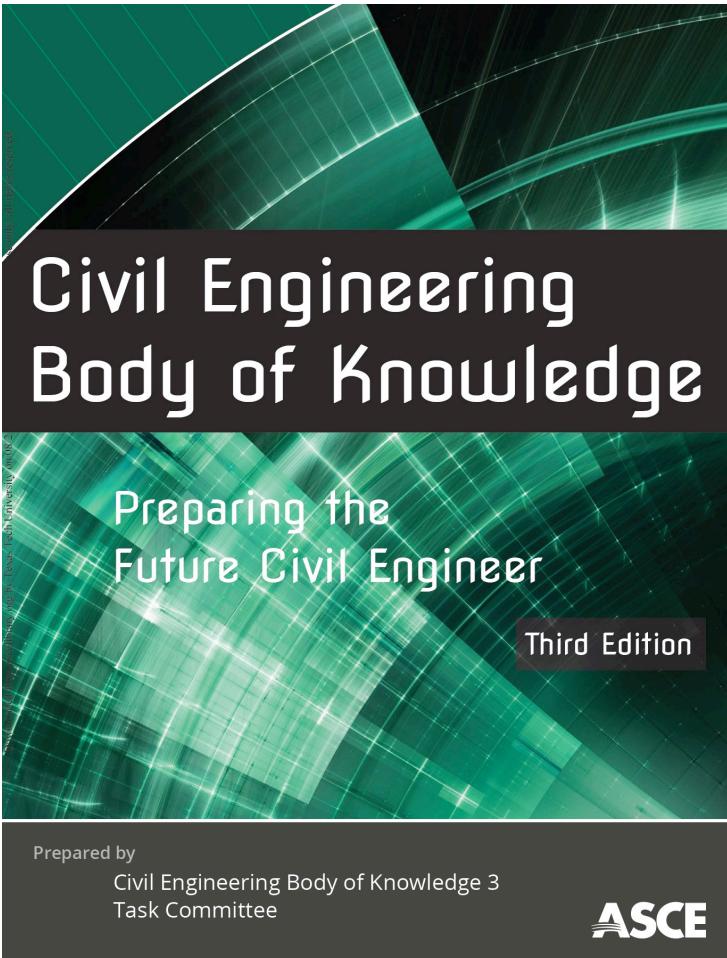
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Textbooks

Evaluation Process



ANALYSIS/ REFLECTION ASSIGNMENTS



- **ASCE BODY OF KNOWLEDGE**
- **EARLY CAREER GUIDANCE**
- **ENGINEERING LICENSURE**
- **LEADERSHIP IN CIVIL ENGINEERING**
- **PROJECT MANAGEMENT (Quiz)**
- **ENGINEERING JUDGMENT**
- **PROFESSIONALISM (Quiz)**
- +- **MULTIPLE BONUS OPPORTUNITIES**

MOCK FE EXAM

The Mock Fundamentals of Engineering (FE) Exam is an approximately half-length version of the real NCEES FE Exam for Civil Engineering students. More specifically, the Mock FE is a diagnostic test where students complete 62 FE-type questions over 14 topics of civil engineering knowledge in 3 hrs.

FINAL EXAM

- Based on your review of the Texas Engineering Practice Act and Board Rules
- You will be asked to consider a series of real-world professional conduct and ethics scenarios
- Following each scenario, you will be asked one or more questions where you will choose the best answer for each of the questions

CE 4200

Professional Engineering Practice Issues

ANY QUESTIONS?