

# Early Career Guidance

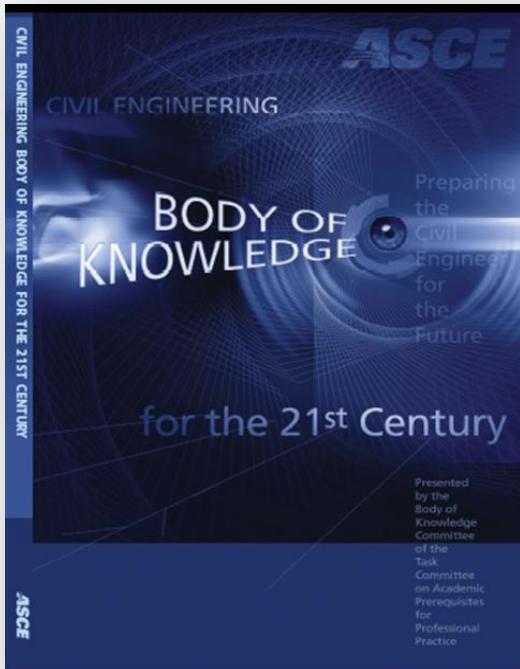
CE 4200

Professional Engineering Practice Issues

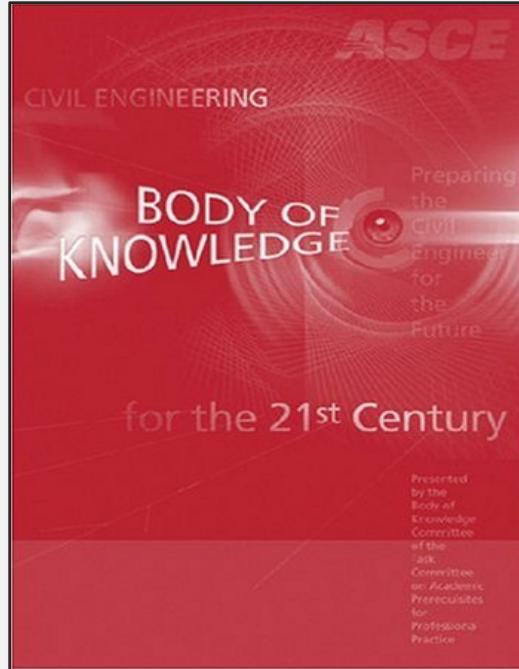
SPRING 2022 Semester

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

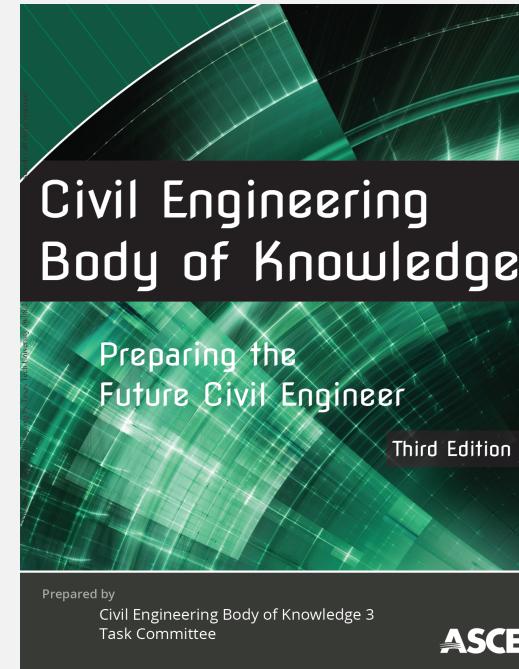
# BASIC SOURCE MATERIAL FOR THESE LECTURE NOTES



**BOK1 (2004)**



**BOK2 (2008)**



**BOK3 (2020)**

## CHAPTER 4

# Guidance for Faculty, Students, Engineer Interns, and Practitioners

In a time of drastic change, it is the learners who inherit the future. The learned usually find themselves equipped to live in a world that no longer exists.

Eric Hoffer, self-taught social philosopher

### Introduction

ASCE's 1995 Civil Engineering Education Conference<sup>22</sup> recommended action in four areas: professional degrees, integrated curriculum, faculty development, and practitioner development. ASCE Policy Statement 465, in a broad sense, For example, the "what" and "how" of this includes the themes of Chapter 2 and Chapter 3, "an integrated curriculum," and "an integrated

BOK guidance is offered for faculty, students, engineer interns, and practitioners.

**WCOE JOB FAIR**

**WED, 16 FEB 2022**

## **Whitacre College of Engineering Job Fair**

With over 5,000 students, we are sure you will find the candidate you are looking for in the Whitacre College of Engineering. At the Whitacre College of Engineering, we have always taken pride in our highly-qualified students. We are excited about the opportunity to help you find qualified students for co-ops, summer internships, and/or full-time positions.

The next Engineering Job Fair will be held on Wednesday, February 16, 2022 from 10am-4pm. As of now, the Fair is being planned as an in-person event at the Lubbock Memorial Civic Center. Please register on [Job Grid](#) and watch your email for more information and further details as we get closer to the event.

## **Job Grid is Your Key**



**Texas Tech University  
Engineering Job Fair**

**February 16, 2022 • 10 a.m. - 4 p.m.  
Lubbock Civic Center**

# A Common Question from CE Senior Students

## JOB HUNTING 101





JOB-SEARCH STRATEGY 101:

*(It's Not*  
**A NUMBERS GAME**

LADDERS

# The top ten happiest life moments



1. Birth of a first child (12.3% of vote)
2. Wedding day (11.5%)
3. Birth of grandchildren (10%)
4. Birth of another child (8.5%)
5. Day of retirement (7.4%)
6. Moving into a new home (6.7%)
7. Seeing your child's first steps (5.5%)
8. Hearing your child's first words (5.4%)
9. Meeting the person of your dreams (4.5%)
10. First kiss with the person you love (4.4%)



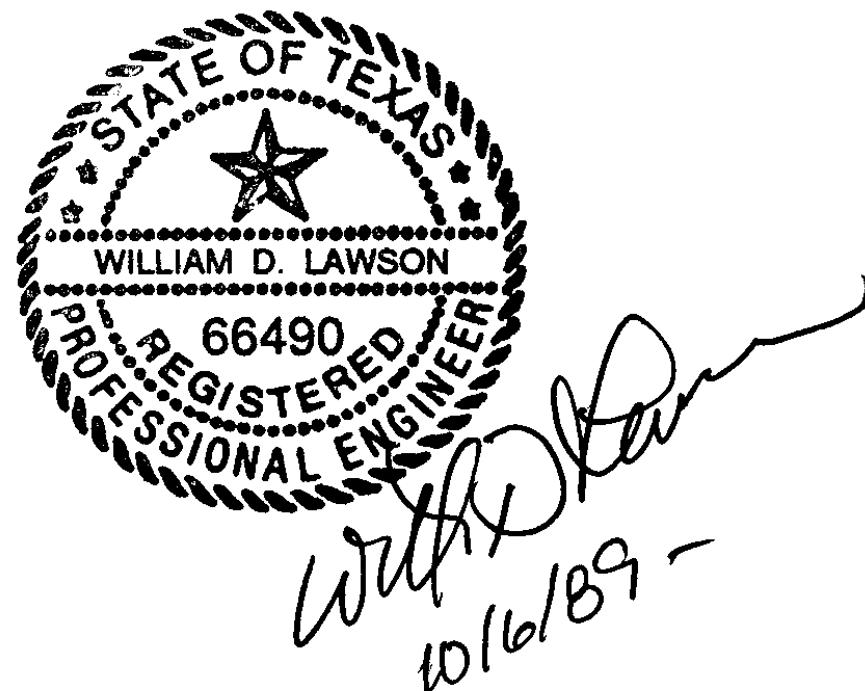
*source: The Huffington Post (2015)*

# A Course in Defensive Driving



## The top ten happiest life moments

- Pursuing (and achieving) a personal life goal



# Outline for Today's Lecture

1. Not a job, but a *fit*
2. Not what others want for you, but what you want for yourself
3. Not just salary, it's about personal satisfaction

# YOUR PERSONAL CAREER PLAN

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PROFESSIONAL ENGINEERING PRACTICE ISSUES



The image shows a 3D perspective view of ten colorful blocks arranged in two rows. The top row contains five blocks spelling 'GOAL' from left to right. The bottom row contains five blocks spelling 'SETTING' from left to right. The blocks are colored as follows: the first block of 'SETTING' is orange, the second is yellow, the third is green, the fourth is blue, and the fifth is red. The blocks spelling 'GOAL' have white outlines and are colored red, orange, pink, and green respectively. The letter 'G' in 'GOAL' has a red bullseye icon in its center. The blocks are set against a plain white background.

S E T T I N G

G O A L

**HOMEWORK ASSIGNMENT 02**  
CE 4200 Professional Practice Issues  
Spring 2022 Semester  
**100 POINTS**

**Date Assigned:** 01/26/2022  
**Date Due:** 02/07/2022  
**Topic:** Personal Career Plan  
**Type:** Individual, Req'd  
**Learning Exercise:** Chapter 4 of the ASCE Body of Knowledge (2<sup>nd</sup> Ed) publication provides guidance for faculty, students, engineer interns, and practitioners. As engineering students, perhaps the most salient advice appears in the sections for students and engineer interns, since that is pretty much where you are.  
Review the ASCE BOK2E guidance and use it to create your own personal plan to successfully start your career (1-5 years from graduation).  
Your plan should contain specific, measurable goals relative to each topic discussed in the BOK2E document.  
The paper should be typed, 12-pt, double space, 1-inch margin.  
FIVE page limit.  
**Reference:** ASCE (2008). Civil Engineering Body of Knowledge for the 21<sup>st</sup> Century: Preparing the Civil Engineer for the Future, Second Edition. American Society of Civil Engineers: Reston VA  
Available online: [http://www.asce.org/uploadedFiles/Leadership\\_Training - New/BOK2E\\_\(ASCE\\_2008\)\\_ebook.pdf](http://www.asce.org/uploadedFiles/Leadership_Training - New/BOK2E_(ASCE_2008)_ebook.pdf)

# Illustration from my past

- Series of events leading to writing “lifetime goals”
  - Professor’s daughter’s school event
  - Conversation with a friend
- Realization... it had been a while since I thought about my goals
- What I did
  - I took some time
  - Wrote out a series “lifetime goals”

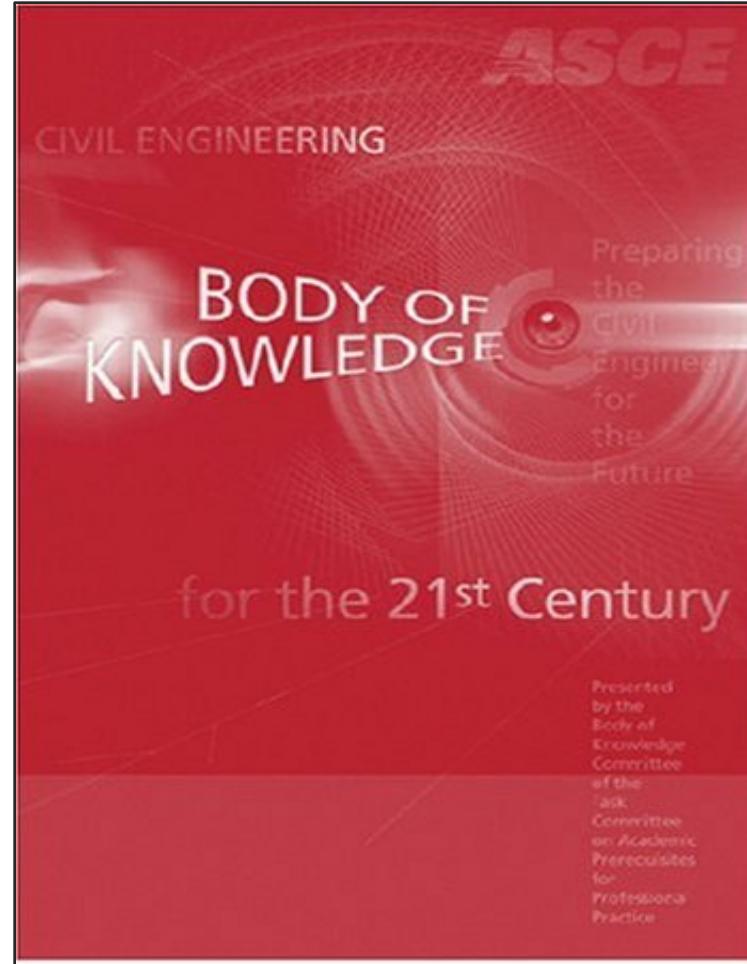
# Some observations about goals



# Some Suggestions

<u>TOPICS</u>	<u>TIME ASPECT</u>
• Professional	• Immediate
• Educational	• 2-3 years
• Financial	• 5-6 years
• Spiritual	• 10-15 years
• Personal	• Revisit

Be Sure to  
Check out  
**CEBOK2**  
Chapter 4



Not a Job, but a  
“fit”

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# Riding

vs.

# Driving



**Compare and contrast:**

- How are “riding” and “driving” alike?
- How are they different?

**Not what others want  
for you, but what you  
want for *yourself***

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**PROFESSIONAL ENGINEERING PRACTICE ISSUES**

# The job hunting difference

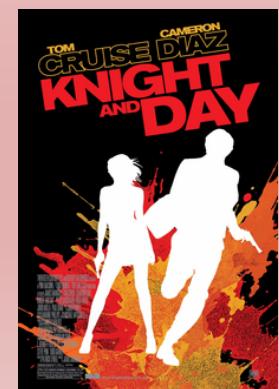
<u>WITH Goals</u>	<u>Without Goals</u>
• You know what <u>you</u> want	• You haven't thought about it
• You <u>evaluate</u> opportunities	• You look for a job
• You offer <u>clear responses</u>	• You have vague notions
• You seek <u>specific</u> information	• You never get this far
• You make a decision that, ALL things considered, is <u>best for you</u> and your life	• You get a job, maybe (hopefully)



With me, without me. With me,

[gifs.com](http://gifs.com)

*Knight and Day* (2010)



## The top ten happiest life moments

## The top five BIGGEST REGRETS

1. Choosing the wrong career
2. Not furthering education
3. Not traveling enough
4. Getting divorced
5. Getting married too soon

source: *The Huffington Post* (2015)

Not just salary, it's  
about *personal*  
*satisfaction*

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# Some Suggestions

- Identify the specific job aspects that matter to you
- Identify “weights” for each aspect
  - Create subcategories
  - Be as detailed as you can be
- Carefully think about each opportunity
  - Do a side-by-side evaluation
  - Assign point values
  - Add up the values (a spreadsheet comes to mind)

A photograph showing two people from the chest up, sitting at a table covered with a map. A woman in a blue plaid shirt is writing on the map with a pen. A man in a grey t-shirt is looking at the map. On the table are cups of coffee, glasses of water, a camera, and a plate with a sandwich. The scene suggests planning a trip.

The Outcome...

“All things considered...”

# **QUESTIONS?**

## **CE 4200**

**PROFESSIONAL ENGINEERING PRACTICE ISSUES**