 VirginiaTech  
CEE 2804  
INTRODUCTION to CIVIL ENGINEERING

Lecture 1  
August 25, 2015

Course goals  
Syllabus  
Definitions

Learning goals:

1. Introduce the instructor
2. Describe goals for the course.
3. Present syllabus.
4. Introduce the modern civil engineer.
5. Describe, introduce, and define civil infrastructure.



Upbringing had a big influence on who I am today

# Education

BSCE University of Virginia 1995  
MSCE University of Virginia 1997  
PhD Johns Hopkins University 2008



# Design+Construction Experience

1997-2002 J. Muller International, New York, NY

2002-2005 Parsons Corporation, Baltimore, MD





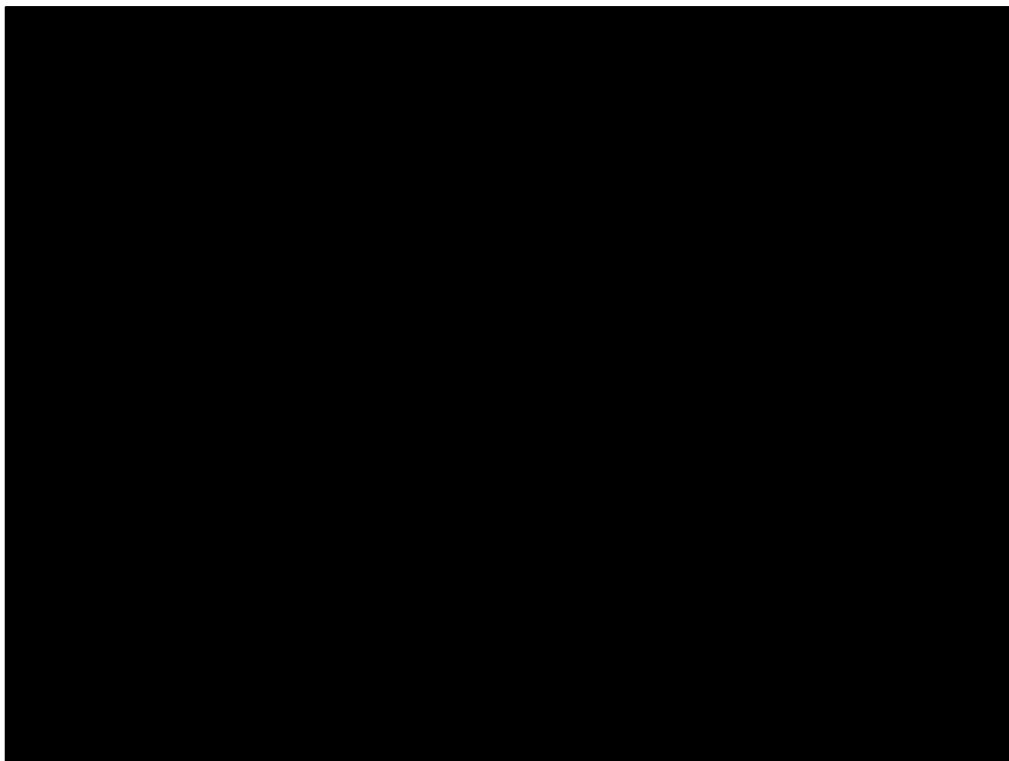
NBM is a structural engineering technology company. But we're also inventors, creators, and rule breakers.

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# Teaching at VT

CEE 2804 Introduction to Civil Engineering  
CEE 3404 Theory of Structures  
CEE 4404 Computer Analysis I (Matrix)  
CEE 5444 Stability of Structures  
CEE 5434 Cold-Formed Steel Design





## COURSE GOALS

- define your path as a civil engineer
- become communicators and thinkers
- have fun

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## COURSE STRUCTURE

- 20 large group lectures
- 11 discussion sessions

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# COURSE SYLLABUS

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Go over course syllabus with the class.

What is civil engineering?

<https://www.youtube.com/watch?v=cJaRjl7K-Lw>

<http://www.cee.vt.edu/>

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Show ASCE video.

## Civil engineering subdisciplines

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Active learning exercise. Split students into small groups and ask them what they know about subdisciplines

Fall 2015 notes from class

Why do you want to be a civil engineer?

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Ask students to share personal stories in class.

What is infrastructure?

<https://www.youtube.com/watch?v=st4TdbhH8hc>

Show video

Split students into small groups or just ask them directly if something is infrastructure, discuss and debate.

Fall 2015

construction – build stuff  
paper – industrial supply  
sound barriers  
natural highway divide  
repurpose land  
privacy

Where can we find CEE infrastructure on campus?

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Ask students question and discuss.