

CEE Course Assessment Workbook

I. Course Measured Outcomes (CMO)

Course Number:	
Course Title:	
Term/Year:	
Instructor:	

MEASURED OUTCOMES (please list)
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.

Add additional sheets as necessary.
Please provide a copy of the course syllabus.

CEE Course Assessment Workbook
II. Specific Measured Outcomes

Course Number:	
Course Title:	
Term/Year:	
Instructor:	

Measured Outcome:

1. Purpose:

2. Presentation:

3. Course Activities:

4. Measurement (please provide examples of student work):

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III. Specific Program Measurement Outcomes (PMO)

Course Number:	
Course Title:	
Term/Year:	
Instructor:	

Please indicate the **extent** to which each CEE Department Program Outcome listed below was an aspect of the course due to the nature of the stated Course Measured Outcome. Use the following scale: 0 = Not at all, 3 = Moderate, 4 = Significant, and 5 = Highly significant. Then, for any outcome that was an aspect of the course to a significant extent (4 or higher), identify the associated Course Measured Outcome.

PROGRAM MEASURED OUTCOME	Extent	Course Measured Outcome
1. Components of civil engineering practice:		
a. Technical		
b. Professional		
c. Ethical		
2. Preparation for the future changes in civil engineering.		
3. Understanding of basic principles of civil engineering (please list and assess each principle).		
a. Computers and information technology		
b. Geographic positioning (or spatial representation) and measurements		
c. Solid (structural) Mechanics		
d. Soil Mechanics		
e. Fluid Mechanics		
f. Design, problem - solving and decision - making techniques		
g. Construction material		
h. System analysis and modeling		
i. Engineering economics and risk management		
j.		
4. Understanding and application of:		
a. Biology		
b. Chemistry		
c. Geology		
d. Physics		
e. Differential and Integral Calculus		
f. Differential Equations		

g. Probability and Statistics		
h. Linear Algebra		
i. Higher Mathematics		

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III. Specific Program Measured Outcomes (cont.)

PROGRAM MEASURED OUTCOME	Extent	Course Measured Outcome
5. Understanding of engineering design process, including the following:		
a. Ability to perform design.		
b. Multidisciplinary aspects.		
c. Collaboration skills.		
d. Communication skills.		
e. Consideration of cost.		
f. Consideration of time management.		
6. Demonstration of an ability to:		
a. Setup experiments.		
b. Gather and analyze data.		
c. Apply the data to practical engineering problems.		
7. Demonstration of an in-depth understanding of at least one specialty within civil engineering.		
8. Understanding of options for careers and further education.		
9. An ability to learn independently.		
10. Broad education envisioned by the WPI Plan, and described by the Goal and Mission of WPI.		
11. Understanding of the civil engineering profession in a societal and global context.		