

End-of-Course Survey

Professor Dave Wong

Design and Planning of Civil Engineering Systems

How well did you learn?

Not at all → Very Well

1 2 3 4 5

PLEASE CIRCLE YOUR RATINGS

↓ BELOW ↓

COURSE OBJECTIVES AND OUTCOMES

Goals. This course provides freshmen civil engineering students with an understanding of the technical scope of the various civil engineering disciplines and the role of civil engineers in society. A structured program of required written reports, provides the means for an early emphasis on writing skills. A team project presentation provides insights as to the importance of teamwork and verbal communication skills.

Objective. Provide an overview of civil engineering disciplines, including the history of civil engineering; introduction to the synthesis and design of systems dependent upon civil engineering technology; the modeling and simulation of such systems.

Outcome. The students will have an overall appreciation of the various branches of civil engineering and their historical development.

1	Overview of engineering	1	2	3	4	5
2	Historical perspective	1	2	3	4	5
3	Design of structures and structural components	1	2	3	4	5
4	Construction Engineering	1	2	3	4	5
5	Transportation Systems	1	2	3	4	5
6	Water Resources	1	2	3	4	5
7	Environmental Engineering	1	2	3	4	5
8	Civil Engineering and society	1	2	3	4	5

Objective. Provide an introduction to technical report writing and presentation

Outcome. The students will have the basic skills to prepare a technical report and related PowerPoint presentation.

9	Prepare a technical report	1	2	3	4	5
10	Prepare and deliver a presentation via PowerPoint	1	2	3	4	5

Objective. Provide an understanding of the role of civil engineers in society and of professional ethics

Outcome. The students will have an appreciation for the societal and ethical responsibilities of a civil

11	Understand and appreciate role in society	1	2	3	4	5
12	Understand and appreciate ethical responsibilities	1	2	3	4	5

RELATIONSHIP OF CIVIL ENGINEERING PROGRAM COURSE OBJECTIVES TO OUTCOMES XXXXXXXXXXXXXXXX

Objective: The Civil (Environmental) Engineering program is designed to teach beyond the technical content of the curriculum and prepare the students to utilize what they learn in a professional setting. Engineering projects and research activities enlist skills and demonstrate ability to understand the subject matter and communicate in a proficient manner. This course contributes to the overall program goals in the following ways.

Outcome. Engineering programs must demonstrate that their students attain

d	An ability to function on multi-disciplinary teams	1	2	3	4	5
g	An ability to communicate effectively	1	2	3	4	5
h	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	1	2	3	4	5
i	A recognition of the need for, and an ability to engage in life-long learning	1	2	3	4	5
j	A knowledge of contemporary issues	1	2	3	4	5