

Tennessee Technological University
Department of Civil & Environmental Engineering
CEE 1020 – Connections to Civil and Environmental Engineering
Required
Fall Semester 2007

- 2007 Catalog Data: CEE 1020. Connections to Civil and Environmental Engineering. Rec. 2. Credit 1. Engages the student in meaningful academic and non-academic activities introducing students to the CEE department and the civil engineering profession. Emphasizes time management and study skills, department and university resources, faculty interaction, professional and student organizations, and the civil engineering profession. Prerequisite: None
- Textbook (optional): Paul and Elder, *How to study and learn a discipline*. The Foundation of Critical Thinking
- Coordinator: Faisal Hossain, Assistant Professor of Civil Engineering
- Goal: The goal of CEE 1020 “Connections in Civil and Environmental Engineering” is to emphasize time management and study skills, department and university resources, faculty interaction, professional and student organizations, and the civil engineering profession.

Course learning objectives:

1. Facilitate student understanding of University policy against sexual harassment
2. Facilitate students connection to the TTU campus community
3. Introduce students to available TTU support programs
4. Introduce students to learning styles and study skills for academic success
5. Introduce students to opportunities and resources available through the TTU Civil and Environmental Engineering Department
6. Initiate development of an appreciation of engineering professionalism and contemporary issues

Course measurable outcomes:

Students will be expected to:

1. understand university policy on sexual harassment and be appropriately trained through an online training program;
2. attend at least two extra-curricular/cultural events and seminar/workshops on campus to broaden their awareness of contemporary issues within and beyond Civil Engineering;
3. identify resources available within the university and the Civil Engineering department to get adjusted to life on campus;
4. develop skills in time management to provide for a balanced life of study and recreation on campus; and
5. gain a better understanding of various civil engineering sub-disciplines.

Topics covered: (Minimum one lecture class per week, 55 minutes each)

1. Introduction to sexual harassment and its prevention in the workplace. (1 class)
2. Introduction to University library facilities. (1 class)
3. Introduction to various sub-disciplines of civil engineering. (2 classes)
4. Introduction to summer internship and co-op opportunities in the industry. (1 class)
5. Introduction to University health and sports facilities. (1 class)
6. Attendance of various university workshops on study skills and time management. (3 classes)
7. Participation in trips to places/events that manifest the civil engineering profession. (3 classes)
8. Hands-on activity related to a civil engineering sub-discipline. (2 classes)

Contribution of the course to meeting professional component:

This course is a part of the engineering topics component of the curriculum.

ABET category content as estimated by faculty member who prepared this course description:

Engineering Science: 0 credit or 0%
Engineering Design: 0 credits or 0%
Other: 1 credit or 100%

Relation of course to program outcomes:

Outcome 3: The graduates will be prepared to begin the professional registration process prior to graduation.
Outcome 9: The graduates will have an understanding of their social and ethical responsibilities as civil engineers.
Outcome 10: The graduates will have an understanding of the need to continue their education through life-long learning.

Relation of course to ABET Criteria:

General Criteria

Bloom's Level of Achievement

(3i)	Need for life-long learning	1
(3j)	Acquire knowledge of contemporary issues	1

Program Criteria

Bloom's Level of Achievement

1.	Explain the importance of professional licensure	1
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Computer usage: Use of E-notes

Laboratory projects: Simple hands-on-activities to impart an understanding of the civil engineering profession

Prepared by: F. Hossain

Date: August 2007