

Assessment Plan

Western Michigan University

Civil and Construction Engineering

Mission Statement: We provide the opportunity for civil and construction engineering students to obtain state-of-the-art engineering knowledge and skills through student-centered education and research. Teamwork, professionalism and life-long learning are hallmarks of our educational programs. Faculty research is to provide innovative solutions to civil and construction engineering problems of regional, national, and global significance.

Vision Statement: Be a leader in civil and construction engineering education integrating design throughout the curriculum. Upon graduation, students will be able to perform and contribute to the global civil and construction engineering community. Be a recognized center for life-long learning in civil and construction engineering and for providing innovative research and expertise that improves our way of life.

Outcome: Civil Engineering Program Outcome A

Graduates have an understanding of and the ability to apply knowledge of traditional mathematics, science, and engineering skills

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Fundamentals of Engineering Exam Assessment Method Category: Exam-Standardized	Average of the department is at or above the national average.		Yes
Pert Assignment CCE 4310 Assessment Method Category: Course-Embedded Measure	75% of Students achieve C or better on the assignment		Yes
Traffic Analysis Assignment CCE 3300 Assessment Method Category: Course-Embedded Measure	75% of teams achieve C or better on the assignment		Yes
Capstone Design Project Assessment Method Category: Capstone	75% of Students complete capstone design project with a C or better.		Yes
Capstone Jury Evaluations Assessment Method Category: Course-Embedded Measure	At least 75% of all respondents indicate that graduates can apply this knowledge.		Yes

Related Courses

- * CCE 3300 - Transportation
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4830 - Project Design and Control
- * CCE 4850 - Senior Project

Outcome: Civil Engineering Program Outcome B

Graduates are able to design and conduct experiments, as well as analyze and interpret data in more than one Civil Engineering discipline

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Concrete Mix Design Lab Exercise Assessment Method Category: Course-Embedded Measure	75% of teams achieve a C or better on lab exercise.		Yes
Lab Team Project CCE 2360 Assessment Method Category: Course-Embedded Measure	75% of teams achieve a C or better on lab team project.		Yes
Lab Exam CCE 3360 Assessment Method Category: Course-Embedded Measure	75% of Students achieve a C or better on the exam.		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 3360 - Soil Mechanics

Outcome: Civil Engineering Program Outcome C

Graduates can design systems, components, and processes to meet desired needs

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Jury Assessment Method Category: Capstone	At least 85% of the capstone project jurors indicate graduates can design to meet desired needs.		Yes
Lab Project CCE 2360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project.		Yes
Team Project CCE 3860 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project		Yes
Design Project CCE 4400 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester design project.		Yes
Team Project CCE 4310/4360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes
Team Project CCE 4300 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project.		Yes

Related Courses

- * CCE 2360 - Geomatics

- * CCE 4300 - Traffic Design
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design
- * CCE 4850 - Senior Project

Outcome: Civil Engineering Program Outcome D

Graduates can work in multidisciplinary design teams. What is meant by multidisciplinary is the integration of knowledge of at least three of the civil engineering specialties of structures, transportation, construction, environmental, and geotechnical.

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Project Assessment Method Category: Capstone	All students will work as part of design teams.		Yes
Exit Interview Assessment Method Category: Survey-Student	At least 80% of the Students agree that all members of the team contributed to the final project.		Yes
Lab Project CCE 2360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester		Yes
Team Project CCE 3860 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project.		Yes
Design Project CCE 4400 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes
Team Project CCE 4310/4360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes
Team Project CCE 4300 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 4300 - Traffic Design
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design
- * CCE 4830 - Project Design and Control

Outcome: Civil Engineering Program Outcome E

Graduates are able to identify, formulate, and solve engineering problems.

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Lab Project CCE 23660 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project.		Yes
Team Project CCE 3860 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project.		Yes
Design Project CCE 4400 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester design project.		Yes
Team Project CCE 4310/4360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 4300 - Traffic Design
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design

Outcome: Civil Engineering Program Outcome F

Graduates understand professional and ethical responsibility.

Graduates have knowledge of engineering ethics and ethical responsibilities.

Graduates have an understanding of the importance of professional registration.

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Ethics Paper CCE 4830 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the ethics paper.		Yes
College Seminar and/or CCE 4830 Speaker/Video Assessment Method Category: Course-Embedded Measure	100% of CCE 483 students attend at least one college seminar and/or course speaker/video on ethics.		Yes
Evidence of FE Sign-up or FE Result Assessment Method Category: Course-Embedded Measure	100% of all graduating seniors have completed the Fundamentals of Engineering examination or are registered to		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
	take it.		
Exit Interview Assessment Method Category: Survey-Student	75% of graduating seniors indicate their intent to pursue PE registration		Yes
PE Paper CCE 4830 Assessment Method Category: Course-Embedded Measure	75% of students earn a C or better on the PE registration paper.		Yes

Related Courses

- * CCE 4830 - Project Design and Control
- * CCE 4850 - Senior Project

Outcome: Civil Engineering Program Outcome G

Graduates are able to communicate effectively.
 Graduates demonstrate effective oral communication skills.
 Graduates demonstrate effective graphical communication skills.
 Graduates demonstrate effective written communication skills.

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Jury Assessment Method Category: Capstone	At least 75% of the jurors indicate that graduates demonstrate effective oral communication skills.		Yes
Proposal CCE 4830 Assessment Method Category: Course-Embedded Measure	75% of students earn a C or better on the senior design project proposal.		Yes
Team Project CCE 4310/4360 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course team project.		Yes
Team Paper CCE 3380 Assessment Method Category: Course-Embedded Measure	75% of students earn a C or better on the course team paper.		Yes
Capstone Jury evaluations Assessment Method Category: Capstone	At least 75% of the jurors indicate graduates demonstrate desired skills.		Yes
Design Team Project CCE 4400 Assessment Method Category: Course-Embedded Measure	75% of students earn a C or better on the course design team project.		Yes
Team Project CCE 4310 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course team project.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Design Project Assessment Method Category: Capstone	At least 75% of students earn a C or better on the capstone design project.		Yes
Proposal CCE 4830 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the senior design project proposal.		Yes
Design Team Project CCE 4400 Assessment Method Category: Course-Embedded Measure	75% of students earn a C or better on the course design project.		Yes
Team Paper CCE 3380 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course team paper.		Yes

Related Courses

- * CCE 4310 - Const Planning And Scheduling
- * CCE 4400 - Intro to Structural Design
- * CCE 4830 - Project Design and Control

Outcome: Civil Engineering Program Outcome H

Graduates understand the impact of engineering solutions on society in a global, economic, environmental, societal context. The global, economic, environmental and societal context is interpreted as engineering solutions' usefulness and compliance outside the United States, impact on air and water quality, food, noise level, human health, wildlife, vegetation, human interactions, and well being and safety issues.

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
College Seminar Series and/or CCE 4830 Speakers Assessment Method Category: Course-Embedded Measure	All CCE 483 students participate in at least one seminar related to impact or engineering solutions on society.		Yes
Impact Paper in CCE 4830 Assessment Method Category: Course-Embedded Measure	75% of Students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes

Related Courses

- * CCE 4830 - Project Design and Control

Outcome: Civil Engineering Program Outcome I

Graduates understand and embrace the need for life-long learning

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Participation in regional society meetings Assessment Method Category: External Boards, Advisory or Focus Groups	At least 15% of the Students in CCE 4830 participate in one regional ASCE activity.		Yes
College Seminar Series Assessment Method Category: Course-Embedded Measure	All CCE 4830 Students participate in at least 4 college-wide seminars.		Yes

Related Courses

* CCE 4830 - Project Design and Control

Outcome: Civil Engineering Program Outcome J

Graduates have knowledge of contemporary issues. Contemporary issues refer to knowledge and application of new technologies, recent innovations, new standards and recent product regulations.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Paper CCE 4830 Assessment Method Category: Course-Embedded Measure	75% of CCE 4830 students earn a C or better on the contemporary issue paper.		Yes

Related Courses

* CCE 4830 - Project Design and Control

Outcome: Civil Engineering Program Outcome K

Graduates can use the techniques, skills, and modern engineering tools necessary for engineering.

Track: BSE Civil Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Design Project Assessment Method Category: Capstone	75% of students complete capstone design project with a C or better		Yes
Lab Project CCE 2360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Team Project CCE 3860 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project.		Yes
Design Project CCE 4400 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester design project.		Yes
Team Project CCE 4310/4360 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design

Outcome: Construction Engineering Program Outcome A

Graduates have an understanding of and the ability to apply knowledge of traditional mathematics, science, and engineering skills

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Fundamentals of Engineering Exam Assessment Method Category: Exam-Standardized	The department average is at or above the national average	Annual	Yes
Freshman Gateway Examinations Assessment Method Category: Exam-Comprehensive	60% average of correct student answers in mathematics and physics	Annual	Yes

Related Courses

- * CCE 3300 - Transportation
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4850 - Senior Project

Outcome: Construction Engineering Program Outcome B

Graduates are able to design and conduct experiments, as well as analyze and interpret data in more than one Civil Engineering discipline

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Design Lab Exercise in CCE 3380 Assessment Method Category: Course-Embedded Measure	75% of teams achieve C or better on lab exercise	Annual	Yes
Team Project in CCE 2360 Lab Assessment Method Category: Course-Embedded Measure	75% of teams achieve C or better on lab team project	Annual	Yes
CCE 3360 Lab examination Assessment Method Category: Course-Embedded Measure	75% of teams achieve C or better on the exam	Annual	Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 3360 - Soil Mechanics

Outcome: Construction Engineering Program Outcome C

Graduates can design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, sustainability.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Jury Assessment Method Category: Course-Embedded Measure	At least 85% of the capstone project jurors indicate that graduates can design to meet desired needs		Yes
Course-Embedded Measure Assessment Method Category: Exam-Standardized	75% of Students receive a C or better on end-of-semester lab project		Yes
Team Project in CCE 386 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of semester team project.		Yes
Design Project CCE 440 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester design project		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 4300 - Traffic Design
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design

Outcome: Construction Engineering Program Outcome D

Graduates can work in multidisciplinary design teams.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Project Assessment Method Category: Course-Embedded Measure	All Students will work as part of design tems		Yes
Survey Student Assessment Method Category: Course-Embedded Measure	At least 80% of the students agree that all members of the team contributed to final project.		Yes
Lab Project CCE 236 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project.		Yes
Team Project 386 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better end-of-semester team project.		Yes
Design Project Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better end-of-semester design project		Yes
Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes
Team Project CCE 430 Assessment Method Category: Course-Embedded Measure	75% os Students receive at least a C on end-of-semester team project in each of these courses.		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 4300 - Traffic Design
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control

Outcome: Construction Engineering Program Outcome E

Graduates are able to identify, formulate, and solve engineering problems.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Lab Project CCE 236 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project		Yes
Team Project CCE 386 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project.		Yes
Design Project CCE 440 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester design project.		Yes
Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project in each of these courses.		Yes
Team Project CCE 430 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester team project.		Yes
Lab Project CCE 236 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project		Yes
Team Project CCE 386 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester lab project.		Yes
Design Project CCE 440 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on end-of-semester design project.		Yes
Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students receive at least a C on end-of-semester team project in each of these courses.		Yes

Related Courses

- * CCE 2360 - Geomatics
- * CCE 4300 - Traffic Design
- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design

Outcome: Construction Engineering Program Outcome F

Graduates understand professional and ethical responsibility.
 Graduates have knowledge of engineering ethics and ethical responsibility.
 Graduates have an understanding of the importance of professional registration.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
PHIL 316 Assessment Method Category: Course-Embedded Measure	75% of Students earn a grade of at least a C in the course.		Yes
Ethics Paper CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the ethics paper.		Yes
Evidence of FE Sign-up or FE Result Assessment Method Category: Course-Embedded Measure	100% of all graduating seniors have completed the Fundamentals of Engineering examination or are registered to take it.		Yes
Exit Interview Assessment Method Category: Survey-Student	75% of graduating seniors indicate their intent to pursue PE registration.		Yes
PE Paper CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the PE registration paper.		Yes

Related Courses

- * CCE 4830 - Project Design and Control
- * CCE 4850 - Senior Project

Outcome: Construction Engineering Program Outcome G

Graduates are able to communicate effectively.
 Graduates demonstrate effective oral communication skills.
 Graduates demonstrate effective illustrative communication skills.
 Graduates demonstrate effective written communication skills.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Jury Assessment Method Category: Capstone	At least %75 of the jurors indicate that graduates demonstrate effective oral communication skills.		Yes
Proposal CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the senior design project proposal.		Yes
Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course team project.		Yes
Team Paper CCE 338 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course team paper.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Jury Assessment Method Category: Capstone	At least 75% of the jurors indicate that graduates demonstrate effective graphical communication skills.		Yes
Design Team Project CCE 440 Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the design project. 75% of Students earn a C or better on the team project.		Yes
Capstone Project Assessment Method Category: Capstone	75% of Students earn a C or better on the design project.		Yes
Proposal CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the senior design project proposal.		Yes
Design Team Project CCE 440 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course design project.		Yes
Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course design project.		Yes
Team Paper CCE 338 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the course team paper.		Yes

Related Courses

- * CCE 4310 - Const Planning And Scheduling
- * CCE 4360 - Const Est/Bidding/Cost Control
- * CCE 4400 - Intro to Structural Design

Outcome: Construction Engineering Program Outcome H

Graduates understand the impact of engineering solutions on society in a global, economic, environmental, and societal context. Global, economic, environmental and societal context is interpreted as engineering solutions' usefulness and compliance outside the United States, impact on air and water quality, food, noise level, human health, wildlife, vegetations, human interactions, and well being and safety issues.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Participation in regional society meetings Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of Students in CCE 483 participate in one regional ASCE activity.		Yes
College Seminar Series Assessment Method Category: External Boards, Advisory or Focus Groups	All CCE 483 students participate in at least 4 college-wide seminars		Yes
College Seminar Series or CCE 483 Speaker Assessment Method Category: Course-Embedded Measure	All CCE 483 Students attend at least one seminar on a contemporary issue.		Yes
Paper CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the contemporary issue paper.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in regional society meetings Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of Students in CCE 483 participate in one regional ASCE activity.		Yes
College Seminar Series Assessment Method Category: External Boards, Advisory or Focus Groups	All CCE 483 students participate in at least 4 college-wide seminars		Yes
College Seminar Series or CCE 483 Speaker Assessment Method Category: Course-Embedded Measure	All CCE 483 Students attend at least one seminar on a contemporary issue.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Paper CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the contemporary issue paper.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes

Related Courses

* CCE 4830 - Project Design and Control

Outcome: Construction Engineering Program Outcome I

Graduates understand and embrace the need for life-long learning.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Participation in regional society meetings Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of Students in CCE 483 participate in one regional ASCE activity.		Yes
College Seminar Series Assessment Method Category: External Boards, Advisory or Focus Groups	All CCE 483 students participate in at least 4 college-wide seminars		Yes
College Seminar Series or CCE 483 Speaker Assessment Method Category: Course-Embedded Measure	All CCE 483 Students attend at least one seminar on a contemporary issue.		Yes
Paper CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the contemporary issue paper.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes

Related Courses

* CCE 4830 - Project Design and Control

Outcome: Construction Engineering Program Outcome J

Graduates have knowledge of contemporary issues. Contemporary issues refer to the knowledge and application of new technologies, recent innovations, new standards and recent product regulations.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in regional society meetings Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of Students in CCE 483 participate in one regional ASCE activity.		Yes
College Seminar Series Assessment Method Category: External Boards, Advisory or Focus Groups	All CCE 483 students participate in at least 4 college-wide seminars		Yes
College Seminar Series or CCE 483 Speaker Assessment Method Category: Course-Embedded Measure	All CCE 483 Students attend at least one seminar on a contemporary issue.		Yes
Paper CCE 483 Assessment Method Category: Course-Embedded Measure	75% of Students earn a C or better on the contemporary issue paper.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Seminar Series and/or Speakers CCE 483 Assessment Method Category: Course-Embedded Measure	All CCE 483 Students participate in at least 2 seminars related to impact of engineering solutions on society.		Yes

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Participation in Student chapter Assessment Method Category: External Boards, Advisory or Focus Groups	At least 25% of the students in CCE 483 participate in at least on ASCE chapter meeting.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes
Impact Paper in CCE 483 Assessment Method Category: Course-Embedded Measure	75% of students earn C or better in the CCE 483 Impact of engineering solutions paper.		Yes

Related Courses

* CCE 4830 - Project Design and Control

Outcome: Construction Engineering Program Outcome K

Graduates can use the techniques, skills, and modern engineering tools necessary for engineering.

Track: BSE Constr Engrg

Start Date: 07/01/2009

End Date: 06/30/2010

Outcome Status: Active

Means of Assessment			
Assessment Method	Criterion	Schedule	Active
Capstone Design Project Assessment Method Category: Capstone	75% of Students complete capstone design project with a C or better.		Yes
Lab Project CCE 236 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on lab project		Yes
Team Project CCE 386 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on team project.		Yes
Design Project CCE 440 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on design project.		Yes
Team Project CCE 431/436 Assessment Method Category: Course-Embedded Measure	75% of Students receive a C or better on team project in each of these courses.		Yes

Related Courses

* CCE 2360 - Geomatics

* CCE 4310 - Const Planning And Scheduling

* CCE 4360 - Const Est/Bidding/Cost Control

* CCE 4400 - Intro to Structural Design