

1. Course Number and Name

291 – Field Training 1

2. Credits (Contact Hours/Week for Fall/Spring Semester)

1 (14)

3. Course Coordinator

Academic Supervisors

4. Textbook and Supplemental Materials

- Handouts and World Wide Web.

5. Course Information

Catalog Description: The purpose of this course is to help students to work successfully in the outside community and work environment, also this course introduces description of practical civil engineering problems, solution for real engineering problems, data interpretation and utilization, adaptation to write technical report.

Prerequisites: None. **Corequisites:** None. **Pre or Corequisites:** None. **Type of Course:** Required.

6. Course Objectives and Outcomes

Students who successfully complete this course will be able to:

- Describe practical civil engineering problems
- Reproduce solution for real civil engineering problem
- Analyze and Interpret data, and use engineering judgment to draw conclusions
- Use project management techniques to structural systems
- Show the ability to work independently as a part of a team
- Demonstrate the ability to recognize ethical and professional responsibilities of civil engineers
- Operate effectively with a range of audiences

This course supports student outcomes by developing:

Outcomes	Selected
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	✓
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	
3. An ability to communicate effectively with a range of audiences	✓
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	✓
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	✓
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	✓
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	

7. List of Topics

The major topics covered in this course are:

- The major topics covered in this course are various in the field of civil engineering.

8. Topics Plan

List of Topics	No. of Weeks	Contact Hours
Joining Notification / Attendance Form and Weekly evaluation	1	Full Time
Attendance Form and Weekly evaluation	2	Full Time
Summer Training Follow - up Report # (1) / Attendance Form and Weekly evaluation	3	Full Time
Attendance Form and Weekly evaluation	4	Full Time
Report on student progress / Attendance Form and Weekly evaluation	5	Full Time
Attendance Form and Weekly evaluation	6	Full Time
Summer Training Follow - up Report # (2)	7	Full Time
Field Supervisor Evaluation / Attendance Form and Weekly evaluation	8	Full Time

1. Course Number and Name

391 – Field Training 2

2. Credits (Contact Hours/Week for Fall/Spring Semester)

1 (14)

3. Course Coordinator

Academic and Field Supervisors

4. Textbook and Supplemental Materials

Handouts and supported training Materials from the field supervisor

5. Course Information

Catalog Description: The purpose of this course is to help students to work successfully in the outside community and work environment, also this course introduces description of practical civil engineering problems, solution for real engineering problems, data interpretation and utilization, adaptation to write technical report.

Prerequisites: None. **Corequisites:** None. **Pre or Corequisites:** None. **Type of Course:** Required.

6. Course Objectives and Outcomes

Students who successfully complete this course will be able to:

- Describe practical civil engineering problems
- Reproduce solution for real civil engineering problem
- Analyze and Interpret data, and use engineering judgment to draw conclusions
- Use project management techniques to structural systems
- Show the ability to work independently as a part of a team
- Demonstrate the ability to recognize ethical and professional responsibilities of civil engineers
- Operate effectively with a range of audiences

This course supports student outcomes by developing:

Student Outcomes	Selected
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	✓
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	
3. An ability to communicate effectively with a range of audiences	✓
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	✓
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	✓
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	✓
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.	

7. List of Topics

- The major topics covered in this course are various in the field of civil engineering.

8. Topics Plan

List of Topics	No. of Weeks	Contact Hours
Joining Notification / Attendance Form and Weekly evaluation	1	Full Time
Attendance Form and Weekly evaluation	2	Full Time
Summer Training Follow - up Report # (1) / Attendance Form and Weekly evaluation	3	Full Time
Attendance Form and Weekly evaluation	4	Full Time
Report on student progress / Attendance Form and Weekly evaluation	5	Full Time
Attendance Form and Weekly evaluation	6	Full Time
Summer Training Follow - up Report # (2)	7	Full Time
Field Supervisor Evaluation / Attendance Form and Weekly evaluation	8	Full Time