

**Course Evaluation Measures Menu**

|  |  |
| --- | --- |
| **Course number:**  | CET 236 |
| **Course title:**  | Soils |
| **Campus location(s):**  | Georgetown, Stanton |
| **Effective semester:**  | 2022-51 |

**Core Course Performance Objectives**

1. Explain the composition of soil and related terminology.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 2, 5; SET 1, 6; EET 1, 5)

1. Classify the different types and how the soil is structured.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 5; SET 1, ~~4~~, 6; EET 1, 4, 5)

1. List the properties of soils, and complete classification tests.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 2, 5; SET 1, 2, 6; EET 1, 2, 6)

1. Explain the engineering properties and behavior of soil deposits through analysis and review of soil engineering property data.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 4, 5; SET 1, 6; EET 1, 2, 4, 6)

1. Apply soil mechanics theories.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 3, 5; SET 1, 6; EET 1)

1. Determine optimal construction practices in the field relative to soil and foundation construction.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 3, 5; SET 1, 6; EET 1)

1. Explain the relationship between hydrology and soils.

(CCC 1, 2, 3, 4, 6: PGC: CET 1, 5; SET 1, 6; EET 1, 5)

1. Demonstrate professional and ethical conduct, as expected in industry.

(CCC 1, 2, 3, 4, 6; PGC: CET 1, 5; SET 1, 6; EET 3, 6)

**Summative Evaluations**

*Please note: All courses must have a* ***minimum******of four*** *summative evaluation measures, and those measures should include a variety of evaluation methods (e.g., test, oral presentation, group project).* ***Please list all summative evaluation measures. In addition to these summative measures, a variety of formative exercises/quizzes/other assignments should be used to guide instruction and learning* *but only required to be included on the final course grade.***

*For each measure, please include a scope of the assignment: for example, if requiring a research paper, include the range of required number of words and number and types of sources; for a test, include the types and number of questions; for a presentation, include the minimum and maximum time, and so on.*

|  |  |
| --- | --- |
| **Evaluation Measures:** Include each agreed upon measure and scope of that measure (see above). | **Which CCPO(s) does this evaluation measure?**  |
| Four to six labs, equally weighted, written in APA format and containing tables, figures and citations. The labs should cover at least the following topics:* Sieve analysis
* Soil classification
* Moisture content
* Atterberg limits
* Proctor compaction test
 | **1, 2, 3, 4, 5, 7, 8** |
| Three to four exams equally weighted including questions taken from a collegewide test bank. The questions may be in the following formats:* Fill in the blank
* Short answer
* True and false
* Calculation based problems similar to homework

Any fill in the blank, short answer, or true and false questions will be answered in a closed-book format. Any calculation-based problems will be answered in an open book format. | **1, 2, 3, 4, 5, 6, 7, 8** |

**FINAL COURSE GRADE**

(Calculated using the following weighted average)

|  |  |
| --- | --- |
| **Evaluation Measure** | **Percentage of final grade** |
| Summative: Exams (3-4) (Equally weighted) | 30% |
| Summative: Labs (4-6) (Equally weighted) | 30% |
| Formative: Assessments (homework, in-class assignments, participation, etc.) | 40% |
| TOTAL | 100% |

|  |  |  |  |
| --- | --- | --- | --- |
| **Submitted by (Collegewide Lead):** | Diane M. Calloway | **Date** | 05/28/2020 |
|  |  |  |  |
| **[x]  Approved by counterparts** | **Date** | 05/28/2020 |
|  |  |  |  |
| **[x]  Reviewed by Curriculum Committee** | **Date** | 6/16/20 |