

**Course Evaluation Measures Menu**

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| **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.*

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| **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)

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| **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% |

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