ADVANCED GEOTECHNICAL ASPECTS OF LANDFILL DESIGN

Course Name: CEG 5114 Advanced Geotechnical Aspects of Landfill Design

Class Meeting Time: Mondays, Periods 8-10

Classroom: NPB 1220

Instructor: Timothy Townsend, PhD, P.E.
Office: 333 NEB
Phone: (352)392-0846
E-mail: ttown@ufl.edu
Office Hours: M: Period 5; W Periods 3 and 4

Text: Class notes and lectures are provided on the UF eLearning website.

Course Description and Objectives:

This course provides detailed instruction on the design of solid waste containment units (SWCU), i.e., landfills, surface impoundments, and waste piles. Elements of SWCU design include mass balance principles, sizing, foundation design and basic soils engineering, liner design, leachate system design, landfill gas system design, and final landfill closure design. Students should demonstrate proficiency in these concepts and fundamental landfill design calculations.

Course Topics and Schedule:

A weekly course schedule of topics and assignments is provided on the UF eLearning website for the class.

Course Grading:

The course work will include design calculation assessments (conducted on line), two exams, five design projects (conducted as a group), class participation, a project, and the instructor’s evaluation. The grades will distributed as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>ENV 4300</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-line Assessments and Design Calculations</td>
<td>16</td>
</tr>
<tr>
<td>Design Projects</td>
<td>38</td>
</tr>
<tr>
<td>Mid-term Exam</td>
<td>15</td>
</tr>
<tr>
<td>Final Exam</td>
<td>15</td>
</tr>
<tr>
<td>Instructor’s Evaluation</td>
<td>6</td>
</tr>
<tr>
<td>Project</td>
<td>10</td>
</tr>
</tbody>
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Class Attendance and Makeup Policy

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:
https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx
Accommodation for Students with Disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.”

UF Grading Policy

https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

University of Florida Student Honor Code:

The student-initiated honor code for the University Florida reads as follows:
We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

http://www.dso.ufl.edu/studentguide/studentconductcode.php
http://itl.chem.ufl.edu/honor.html