Honor Code: Students are expected to comply with the spirit and intent of the University of Florida Honor Code, which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”

Instructor: Eileen Pesantes-Tavares, PhD  
Office: 340 Rinker Hall  
Email: Mail tool in e-Learning in Canvas (preferred method)  
Website: UF e-Learning in Canvas https://ufl.instructure.com/courses/430605  
Office Hours: By appointment

COURSE DESCRIPTION: To study the temporary structures that contractors have to build in order to construct the primary structure. This includes form work, scaffolding, support excavation systems, and equipment for hoisting materials, personnel, and erecting structures.

INSTRUCTIONAL METHODS: Class lectures, videos, homeworks, and tests.

PURPOSE OF COURSE: This course is intended to teach temporary construction methods and design principles to ensure stability of structures during all phases of the construction process. This includes: concrete form work, scaffolding, hoisting personnel and materials, and erecting structures.

COURSE LEARNING OUTCOMES (CLOs):  
Upon completion of the course, students will demonstrate the ability to:

1. Recognize that temporary structures (TS) have a major impact on schedule, cost and quality of construction projects and have been responsible for hundreds of deaths on construction sites.

2. Analyze and design wood beams, and columns using NDS for Wood Construction.

3. Analyze and design formwork for concrete walls and slabs.

4. Review alternative scaffolding systems and discuss their standard of practice.

5. Discuss options for the support of excavation systems.

6. Identify erection equipment to select the most suitable equipment for hoisting materials, personnel, and erecting structures.
Table 1: Assessment Matrix

<table>
<thead>
<tr>
<th>Course Learning Outcomes (CLO)</th>
<th>Assignments</th>
<th>SACS</th>
<th>ACCE</th>
<th>Percent students passing with a 70% or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Recognize impact of temporary structures</td>
<td>Class Discussion (or equivalent)</td>
<td>1</td>
<td>3</td>
<td>80%</td>
</tr>
<tr>
<td>2. Use the NDS for Wood Construction</td>
<td>Test and homework</td>
<td>1</td>
<td>19</td>
<td>80%</td>
</tr>
<tr>
<td>3. Design form work for walls and slabs</td>
<td>Test and homework</td>
<td>1</td>
<td>19</td>
<td>80%</td>
</tr>
<tr>
<td>4. Review scaffolding systems</td>
<td>Test</td>
<td>1</td>
<td>8</td>
<td>80%</td>
</tr>
<tr>
<td>5. Discuss excavation systems</td>
<td>Test</td>
<td>1</td>
<td>8</td>
<td>80%</td>
</tr>
<tr>
<td>6. Identify erection equipment</td>
<td>Test and homework</td>
<td>1</td>
<td>8</td>
<td>80%</td>
</tr>
</tbody>
</table>

ACCE - American Council for Construction Education
SACS - Southern Association of Colleges and Schools

ACCE SLO 3. Create construction safety plan - Reinforce
ACCE SLO 8. Analyze methods, materials, and equipment used into construct projects - Direct Assessment
ACCE SLO 19. Understand the basic principles of structural behavior. - Direct Assessment

SACS 1. Apply knowledge of engineering, materials, methods, equipment, and processes to safely construct buildings and structures.

REQUIRED TEXTBOOKS


SUPPLEMENTAL READINGS

1. Johnston, David W. Formwork for Concrete 8th edition: ISBN: 9780870319129 There may be paperback versions available that may be cheaper.


5. APA The Engineered Wood Association, Plywood Design Specification

STUDENT REQUIREMENTS: Student grades will be based on tests and assignments. There are no make-ups for missed tests or assignments.

HOMEWORK POLICY: Assignments will be accepted up to the established time (two days after due date). Any Assignment turned in after the deadline will be graded at 50% of the original credit. Any assignment turned in more than 48 hours late will not be accepted and the student will receive a 0 (zero) on
the assignment. All work turned in for this course is expected to be of professional quality in content and presentation.

COURSE GRADING:

- **Tests**: 4 tests @ 100 points each  
  - Total: 400
- **Assignments**: 6 or 7 @ 50 points  
  - Total: 300 to 350
- **Total**: 700 to 750

**Grading Scale**
- A: 90 – 100
- B+: 87 – 89
- B: 80 – 86
- C+: 77 – 79
- C: 70 – 76
- D+: 67 – 69
- D: 60 – 66
- E: Below 60

COURSE TOPICS:

1. Module 1
   - a. Review of Structures
   - b. Timber design
      - i. Beams
      - ii. Columns
2. Module 2
   - a. Wall Formwork
   - b. Slab Formwork
3. Module 3
   - a. Re-shoring
   - b. Scaffolding
   - c. Excavation supports
4. Module 4
   - a. Equipment (lifting equipment, cranes)

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES: Students requesting accommodation for disabilities must first register with the Dean of Students Office (http://www.dso.ufl.edu/drc/). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments (discussion, term paper, extra credit) or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT: Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at http://www.dso.ufl.edu/students.php. The Honor Code will be applied in the class. 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 all work submitted for credit by students at the university, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” It is Rinker School policy that any incident of cheating, copying, or other attempts to deceive will be penalized by course failure.
NETIQUETTE, COMMUNICATION COURTESY POLICY: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. Detailed guide is available at http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf

GETTING HELP WITH E-LEARNING WEBSITE: In the case you have technical difficulties with e-Learning in Canvas, please contact the UF Help Desk at: Learning-support@ufl.edu; (352) 392-HELP - select option 2; https://lss.at.ufl.edu/help.shtml. If your technical difficulties will cause you to miss a due date/time, you MUST report the problem to the UF Help Desk before the due date/time.

CELLPHONES. Cellphone use is not allowed in classrooms. Use of cellphones during class will discount attendance. Use of cellphones during an exam will result in failing the exam.

LAPTOPS & TABLETS. These devices should only be used to take notes related to lectures. Use of these devices for social media or any other unrelated purposes during class hours will result in a penalty of 10 points for every incident.

COMMUNICATION
• Use the e-Learning in Canvas environment to send an email to the instructor and teaching assistant. Do not e-mail the course instructor and teaching assistant outside of the e-Learning in Canvas system because emails received outside of e-Learning will not receive a response. Please allow 36 hours for a response to your email. The instructor and teaching assistant reserve the right not to respond to course inquiries on the weekend.
• You are responsible for addressing grades/omissions within one week of the grade being posted on e-Learning in Canvas. After one week, the grade/input stands for the class regardless of cause or circumstance.

Note from the instructor: The syllabus represents my current plans and objectives. As we go through the term, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.