Course Catalog description and prerequisites:
The design and analysis of timber structures due to gravity, lateral and combined loadings. Both member and connection details are considered. The design procedures, material properties and allowable stress computations are based on IBC, NDS and other governing standards. Prerequisites: MS in Engineering Science major or permission of the instructor for CIVL 267 students; CIVL 100 for others.

Instructor and contact information:
Hector Estrada, P.E., Ph.D., Professor, CTC 223, 946-3076, hestrada@pacific.edu

Office hours:
MTWR 2:00 to 3:00 pm.

Required textbooks:

Other course materials:
Additional materials are available at http://www1.pacific.edu/~hestrada/ and the Canvas course site

Course objectives:
By the end of the semester, students in this course will be able to:
1) demonstrate an understanding of the fundamental behavior of timber as a construction material
2) design axially loaded members, beams, and horizontal and vertical shear diaphragms according to NDS wood construction specifications
3) synthesize structural timber building systems
4) evaluate structural timber systems subjected to different loadings

Methods of evaluation and grading procedures:
1. There will be one exam during the term and a comprehensive final exam, each worth 30% of the total grade
2. The remaining 40% of the total grade will be based on homework (25%), and a class project (15%). Homework assignments will be given regularly. The assignments and due dates are posted on the course webpage. You are expected to do the assignments yourself. There are two goals in doing the homework problems: (a) to learn the concept or method used in solving the given problem and (b) to communicate your approach and results of the problem to someone.

Your grade average will be converted to a letter grade as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90% and above</td>
</tr>
<tr>
<td>B+</td>
<td>83 – 86.9%</td>
</tr>
<tr>
<td>B</td>
<td>80 – 82.9%</td>
</tr>
<tr>
<td>B−</td>
<td>77 – 79.9%</td>
</tr>
<tr>
<td>C+</td>
<td>73 – 76.9%</td>
</tr>
<tr>
<td>C</td>
<td>70 – 72.9%</td>
</tr>
<tr>
<td>C−</td>
<td>67 – 69.9%</td>
</tr>
<tr>
<td>D+</td>
<td>63 – 66.9%</td>
</tr>
<tr>
<td>D</td>
<td>60 – 62.9%</td>
</tr>
<tr>
<td>D−</td>
<td>57 – 59.9%</td>
</tr>
<tr>
<td>F</td>
<td>≤ 60%</td>
</tr>
</tbody>
</table>

Policies for attendance, make-up exams, and late assignments:
Attendance is required; each unexcused absence will result in a deduction of 1% from your final grade average. Exam make-ups will be granted only for authorized absences. Late work will not be accepted.

Collection of Work for Assessment:
Student work may be retained to assess how course learning objectives are being met and for accreditation purposes.
Student responsibilities:
In order to be successful in this course you must:
1. meet all prerequisites for the course
2. attend every class and participate in the classroom discussions
3. obtain the required study materials and read assigned materials
4. complete all assigned work (exams and assignments) on time
5. work two hours on assignments and studying outside of class for every hour of class contact time
6. adhere to the honor code

Instructor responsibilities:
You should expect me to:
1. be prepared for lecture, including being organized and punctual
2. be available for questions and concerns
3. provide correct answers to all questions, even if I may not initially know
4. treat all students equally
5. grade fair and consistent
6. be actively engage in student learning

Honor Code:
The Honor Code at the University of the Pacific calls upon each student to exhibit a high degree of maturity, responsibility, and personal integrity. Students are expected to:
• act honestly in all matters
• actively encourage academic integrity
• discourage any form of cheating or dishonesty by others
• inform the instructor and appropriate university administrator if she or he has a reasonable and good faith belief and substantial evidence that a violation of the Academic Honesty Policy has occurred.

Violations will be referred to and investigated by the Office of Student Conduct and Community Standards. If a student is found responsible, it will be documented as part of her or his permanent academic record. A student may receive a range of penalties, including failure of an assignment, failure of the course, suspension, or dismissal from the University. The Academic Honesty Policy is located in Tiger Lore and online at http://www.pacific.edu/Campus-Life/Safety-and-Conduct/Student-Conduct/Tiger-Lore-Student-Handbook-.html

Accommodations for students with disabilities:
If you are a student with a disability who requires accommodations, please contact the director of the Office of Services for Students with Disabilities (SSD) for information on how to obtain an Accommodations Request Letter.

Three-step accommodation process:
1. Student meets with the SSD Director and provides documentation and completes registration forms.
2. Student requests accommodation(s) each semester by completing the Request for Accommodations Form.
3. Student arranges to meet with his/her professors to discuss the accommodation(s) and to sign the Accommodation Request Letter.

To ensure timeliness of services, it is preferable that you obtain the accommodation letter(s) from the Office of SSD within 1-2 weeks. After the instructor receives the accommodation letter, please schedule a meeting with the instructor during office hours or some other mutually convenient time to arrange the accommodation(s). The Office of SSD is located in the McCaffrey Center, Rm. 137. Phone: 209-946-3221. Email: ssd@pacific.edu. Online: www.pacific.edu/disabilities.