CARLETON UNIVERSITY
Department of Civil and Environmental Engineering
CIVE 3205 – Design of Structural Steel Components   Winter 2019

Lecture:     Mon. 11:35-14:25        CO 372
PA:          Fri. 11:35-14:25 (alt. weeks)    AT 101
Instructor:  Holtz, N.M.    neal.holtz@carleton.ca
Office Hours: To be determined

Objective: This course is an introduction to the analysis and design of structural steel components.
Course Web: cuLearn (Check course web page regularly.)

Course Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1-3</td>
<td>Introduction; Work standards and sketching. Material Properties; Steel Sections; Tension members; Behaviour, failure modes, and analysis of strength. Gross and net area. Design.</td>
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<tr>
<td>3-5</td>
<td>Connections: High strength bolts; installation of bolts. Strength of bolts and bolted connections. Connection design; double angle beam connections. Welding process; weld classification; welding symbols. Design of welded joints; Strength of welds; Eccentrically loaded connections.</td>
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Grading:
- PA and Homework Assignments 20%
- In-class quizzes (not pre-announced) 5%
- 2 Midterm Exams (Feb. 8 and Mar. 15) 25%
- Final Exam: 50%

Textbooks:

Note: These texts can be purchased from Amazon.ca. You must have them, soon. See the page titled 'Course Textbooks' on cuLearn for instructions and for a promo code that will enable you to get a substantial student discount.

Notes:
1. Attendance at all lectures and PAs is mandatory.
2. Students who repeatedly cause disturbance in class by talking, fidgeting, electronic distractions, etc., will be required to leave the classroom, and suitable penalties will be applied.
3. The notes supplied on the website are intended to serve as a complement to, and not a replacement for, regular class attendance. The instructor does not guarantee these notes to be 100% error free. Every effort will be made to identify errors and correct them during class. The instructor will not entertain requests to provide help unless you have attended lectures regularly. Your class notes must be available at every consultation.
4. The mid-term examinations are scheduled for February 8 and March 15, 2018. The exams will be written during the PA period in the PA room.

5. There will be no alternate dates for the mid-term examinations. If you miss an examination due to documented illness or prior arrangement for a legitimate reason (see the next point), the weight will be added to the weight of the final exam. Otherwise, your mark will be zero.

6. If you miss a midterm or PA for a legitimate reason, you must contact the instructor personally and sign a ‘missing work’ statement. False statements will be regarded as instructional offences.

7. The schedule of the topics covered may not be precisely as shown in the course outline.

8. Some parts of PA work and Homework will be due at the end of the PA session.

9. Assignment due date is strict. Late submissions of assignments and PA work will not be accepted, unless by prior arrangement.

10. Assignments are graded on presentation. There will be substantial mark deductions if PA and Homework assignments are not stapled, or are untidy, or have a substandard (messy, unorganized) presentation.

11. Laptops, cell phones, pagers and other electronic distractions must be turned off during lectures.

12. The course web site will be used to post assignments, announcements, extra notes, etc.

13. All email correspondence must originate from your "cumail" or other university account. The instructor will only respond to emails whose return address is a Carleton email account.

14. The final examination is for evaluation purposes only and will not be returned.

15. Students will be assigned a grade of FND (Failure - No Deferred) if term work marks of at least 40% [20 out of 50], or if PA and HW Assignment marks of at least 50% [10 out of 20], have not been achieved.

16. A minimum mark of 45% (22.5 out of 50) on the final exam is required to pass the course.

17. In all exams you will be allowed the CISC handbook, without annotations, and 1 double-sided page of notes. The notes may be provided by the instructor, and developed cooperatively by the class in the last 2 weeks before each exam.

18. Solutions to the assigned and suggested problems and to the mid-terms will be posted on the course web site.

19. **Academic Accommodation:**

   You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

   **Pregnancy obligation:** write to the instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website [http://www.carleton.ca/equity/accommodation/](http://www.carleton.ca/equity/accommodation/)

   **Religious obligation:** write to the instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website [http://www.carleton.ca/equity/accommodation/](http://www.carleton.ca/equity/accommodation/)

   **Students with disabilities** requiring academic accommodations in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Documented disabilities could include but are not limited to mobility/physical impairments, specific Learning Disabilities (LD), psychiatric/psychological disabilities, sensory disabilities, Attention Deficit Hyperactivity Disorder (ADHD), and chronic medical conditions. Registered PMC students are required to contact the PMC, 613-520-6608, every term to ensure that I receive your Letter of Accommodation, no later than two weeks before the first assignment is due or the first in-class test/midterm requiring accommodations. If you only require accommodations for your formally scheduled exam(s) in this course, please submit your request for accommodations to PMC by the deadlines published on the PMC website: [http://carleton.ca/pmc/students/dates-and-deadlines/](http://carleton.ca/pmc/students/dates-and-deadlines/)