

SYLLABUS

Instructor	Andrea Atkins andrea.atkins@uwaterloo.ca Room 3012 (Tuesdays, by appointment)	
Teaching Assistants	Nima Karami Email: nkarami@uwaterloo.ca Office: 2023 Levi van Weerden Email: lhvanwee@uwaterloo.ca Office: 3018	
Lectures	Tuesdays 2:30-5:30pm Room 1101 (e-classroom)	
Tutorials	Fridays 2:00-4:00pm (as requested, unless scheduled) Room 1101 (e-classroom) 2:00pm Review material from previous week 3:00pm Quiz	
Course Description	Case Studies are used to examine conceptual development, structural design, building process and the selection of structural systems for large buildings including steel and concrete systems. Topics such as tension, flexural and compression members, and connections are studied using calculations, design aids, rules of thumb and the latest CSA design standards.	
Course Policies	Each student is requested to bring a hand calculator to every class meeting. All other electronic devices, such as computers, cell phones, tablets, etc. are prohibited from use in class unless deemed necessary for the accommodation of a student registered with the AccessAbility office.	
Text Books	Course notes available on LEARN	
Grading	Final Marks will be calculated on the following basis: Quizzes 20% Assignment Drafts 10% Assignment Final 10% Midterm Exam 30% Final Project 30%	
Homework	Each week, suggested homework problems will be assigned, covering the material taught in the lecture. This work is not evaluated, but is crucial to your understanding of the material. You will be given opportunities to practice what you have learned and ask questions in tutorials before writing each quiz.	
Quizzes	Quizzes are administered during tutorial sessions, and are the only mandatory portion of the Friday class. Each quiz will be a short (often single-question) problem reflecting the material taught in a previous lecture, and the associated homework problems. There are four quizzes, equally weighted at 5% of the final grade.	

Assignments	Assignments are to be turned in to the drop box in front of the main office by 2pm on the day they are due. Graded work will be returned in the half hour before class on Tuesdays. Assignment drafts will not be accepted after the submission deadline. Late assignment final copies, and late final projects submitted within 48 hours of the deadline will receive a 50% penalty. After 48 hours, the work will be graded but will receive no credit.
Exam	The midterm exam will be an open-notes exam. Students will be responsible for all material covered in the course, both in-class and in-course notes.
Avoidance of Academic Offenses	
Academic Integrity	In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. Refer to the Academic Integrity website (https://uwaterloo.ca/academic-integrity/) for details.
Grievance	A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4, (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70). When in doubt please be certain to contact the department's administrative assistant who will provide further assistance.
Discipline	A student is expected to know what constitutes academic integrity to avoid committing an academic offense, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate Associate Dean. For information on categories of offences and types of penalties, students should refer to Policy 71 (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71) Student Discipline. For typical penalties check Guidelines for the Assessment of Penalties, (https://uwaterloo.ca/secretariat/policies-procedures-guidelines/guidelines/guidelines-assessment-penalties).
Appeals	A decision made or penalty imposed under Policy 70 (Student Petitions and Grievances) (other than a petition) or Policy 71 (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals) www.adm.uwaterloo.ca/infosec/Policies/policy72.htm .
Note for Students with Disabilities	AccessAbility Services (http://uwaterloo.ca/disability-services/), located in the new addition to Needles Hall, Room 1401, collaborates with all academic departments to arrange appropriate accommodations for with students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the office at the beginning of each academic term.
Issued	January 7 th , 2020

SCHEDULE

Tuesday, Jan. 7	Introduction Lecture	
Tuesday, Jan. 14	Foundations Lecture	
Tuesday, Jan. 21	Concrete Lecture 1	
*Friday, Jan. 24	Foundations Quiz	
Tuesday, Jan. 28	Concrete Lecture 2	
*Friday, Jan. 31	Concrete Quiz	
Tuesday, Feb. 4	Steel Lecture 1	& <i>Concrete Draft Assignment due</i>
Tuesday, Feb. 11	Steel Lecture 2	
*Friday, Feb. 14	Steel Quiz	
Feb. 17-21	- R E A D I N G W E E K -	
Tuesday, Feb. 25	Review Lecture	& <i>Steel Draft Assignment due</i>
Tuesday, March 3	Midterm Exam	
Tuesday, March 10	Masonry, Precast, and Lateral Systems Lecture	
Thursday, March 12	Low-Energy Structural Materials Lecture (in studio time)	
Tuesday, March 17	System Selection Lecture	& <i>Masonry and Precast Draft Assignment Due</i>
Thursday, March 19	Structural Guest Crits (in studio time)	
*Friday, March 20	Structural Systems Quiz	
Tuesday, March 24	Combined Systems and Connections Lecture	
Tuesday, March 31	Sign-up Studio Desk Crits	
*Friday, April 3	Assignment Final Copy Due	
Sunday, April 19	Final Project Due	

***NOTE:** Any Friday not listed above may host a 2-4pm tutorial review session. These are offered by the TAs, as requested by the class reps, in the e-classroom.