

SYLLABUS

Territorial Acknowledgement

We acknowledge that the School of Architecture is located on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. The University is situated on the Haldimand Tract, the land promised to the Six Nations that includes 10 kilometres on each side of the Grand River (<https://uwaterloo.ca/engineering/about/territorial-acknowledgement>).

Instructor & T.A. Information

Instructor Zoë Hanneman
e: zhannema@uwaterloo.ca

Teaching Assistants Nima Karami
e: nkarami@uwaterloo.ca

Classroom & Tutorial Information

Lectures Fridays 9:00 am to 12:00 pm (EDT/EST)

All lectures will occur live* in our WebEx classroom, found at this location:
https://uwaterloo.webex.com/meet/ARCH362_classroom_winter2021

Tutorials Tuesdays 2:00 pm to 4:00 pm (EDT/EST)

All tutorials will occur live in our WebEx classroom, found at this location:
https://uwaterloo.webex.com/meet/ARCH362_classroom_winter2021

Office Hours By appointment only

All office hours will occur live in our WebEx classroom, found at this location:
https://uwaterloo.webex.com/meet/ARCH362_classroom_winter2021

TA and Instructor office hours will be hosted in our WebEx classroom space but will not be recorded to maintain privacy.

Course Description & Assessments

Course Description Architectural case studies are used to examine conceptual development, structural design, building process and the selection of structural 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. [Offered: W]

Learning Objectives By the end of the course, students will be able to:
Examine the strengths and weaknesses of material selection at the conceptual development phase. Students will be able to use both rules of thumb as well as the basic principles of structural engineering to make choices about using steel and concrete materials in an Architectural design. Structural analysis of steel and concrete members in compression, tension, and bending as well as connections will be understood using calculations and the latest CSA design standards.

Course Requirements & Information

Course Assessment	Quizzes	18%	3 Quizzes @ 6% each
	Assignment Drafts	12%	4 Draft Assignments @ 3% each (pass / fail)
	Assignment Final	10%	Ungraded portion of assignment drafts added to value of assignment final (total 22% max)
	Midterm	30%	
	Final Project	30%	
TOTAL		100%	
Course Policies	Each student is requested to bring a hand calculator to every class meeting. Cell phones are prohibited from use in class at all times. The exception to this rule is any device necessary for the accommodation of a student with special needs.		
Homework	Weekly problem sets will be handed out in tutorial sessions with answers supplied. The homework sets are not marked for grades, as they are meant to allow you the opportunity to ask questions in tutorials and prepare you for the weekly upcoming quiz.		
Assignment & Final Project	All drafts, assignments, & projects are to be submitted on Crowdmark at the "Due Time" on the day they are due, as indicated on the course schedule. Graded work will be returned within a two-week period.		
Late Work	<p>Late assignment drafts will not be accepted after the submission deadline.</p> <p>Late assignment final copies and late final projects will receive an initial penalty of 20% on the first calendar day late and a 5% penalty per calendar day thereafter. After 5 calendar days, the assignment will receive a 0%.</p> <p>Only in the case of a justified medical or personal reason will these penalties be waived, and only if these have been officially submitted to the Undergraduate Student Services Co-Ordinator and accepted by the Undergraduate Office.</p> <p>Students seeking accommodations due to COVID-19, are to follow Covid-19-related accommodations (https://uwaterloo.ca/coronavirus/academic-information#accommodations).</p>		
Quizzes	Quizzes are administered at the start of the tutorial from 2:00 pm to 3:00 pm (EDT/EST); they are the only mandatory portion of the tutorial. Each quiz will be a short (often single-question) problem reflecting the material taught in a previous lecture and associated homework problems.		
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		
Technical Difficulty Grace Period	There is an allowed "technical difficulty grace period" of 30 minutes for all assignment and project deadlines. To qualify, you must immediately email the instructor within the 30-minute grade period and provide evidence of the issue. Late assignments and projects without evidence of technical difficulty will be penalized as noted above.		
Winter 2020 COVID-19 Special Statement	Given the continuously evolving situation around COVID-19, students are to refer to the University of Waterloo's developing information resource page (https://uwaterloo.ca/coronavirus/) for up-to-date information on academic updates, health services, important dates, co-op, accommodation rules and other university level responses to COVID-19.		

Course Schedule

Week	Date	Date	Topic	Assessments	Start / Due Time
1	Lecture 1	Jan 15	Introduction		
	Tutorial 1	Jan 19	No tutorial		
2	Lecture 2	Jan 22	Foundations		
	Tutorial 2	Jan 26	Foundations Review		
3	Lecture 3	Jan 29	Concrete 1	Draft 1: Foundations	9:00 am (EDT/EST)
	Tutorial 3	Feb 2	Quiz + Concrete 1 Review	Quiz 1: Foundations	2:00 pm (EDT/EST)
4	Lecture 4	Feb 5	Concrete 2		
	Tutorial 4	Feb 9	Concrete 2 Review		
5	Lecture 5	Feb 12	Steel 1	Draft 2: Concrete	9:00 am (EDT/EST)
	No Classes	Feb 13th - Feb 21st	Reading Week		
6	Tutorial 5	Feb 23	Quiz + Steel 1 review	Quiz 2: Concrete	2:00 pm (EDT/EST)
7	Lecture 6	Feb 26	Steel 2		
	Tutorial 6	Mar 2	Review Tutorial		
8	No Lecture	Mar 5	Midterm Exam	Midterm Exam	
	Tutorial 7	Mar 9	Steel 2 Review		
9	Lecture 7	Mar 12	Masonry	Draft 3: Steel	9:00 am (EDT/EST)
	No Tutorial	Mar 16	Pause Day		
10	Lecture 9	Mar 19	Systems 1		
	Tutorial 9	Mar 23	Quiz + Masonry Review	Quiz 3: Steel	2:00 pm (EDT/EST)
11	Lecture 10	Mar 26	Systems 2	Draft 4: Masonry	9:00 am (EDT/EST)
	Tutorial 10	Mar 30	Systems Review		
12	No Class	April 2	Good Friday		
	Tutorial 11	April 6	Review Tutorial		
13	Lecture 12	April 9	Special Topics / Desk Crits	Final Assignment	9:00 am (EDT/EST)
	Tutorial 12	April 13	Review + Final Project Q&A		
14	Lecture 13	April 14	Review + Final Project Q&A		
15	No Classes	April 21	Final Project Due	Final Project	2:00 pm (EDT/EST)

Schedule Issued: December 21, 2020

Remote Course Delivery Platforms & Communication

Learn

URL: <https://learn.uwaterloo.ca/d2l/home>
Course Announcements
Posted Content* (Lecture & Tutorial recordings, readings, assignments)
Homepage has links to all our other online tools

WebEx

URL: https://uwaterloo.webex.com/meet/ARCH362_classroom_winter2021
Lectures and Tutorials
Office Hours

Crowdmark

URL: <https://app.crowdmark.com/sign-in/waterloo>
Submitting Assignments
Submitting Midterm Test
Submitting Final Project
Receiving Feedback

(First time users: select Waterloo as your institution and use `userid@uwaterloo.ca` to log in)

Video Call Protocol

Expected behaviour on video calls:

1. Arrive early. We will try to launch at least 10 minutes in advance of the scheduled time
2. Please sign in using your real name.
3. Mute yourself when you are not talking.
4. Use the chat window to ask questions during the lecture. The TAs will be monitoring this.
5. Tech Support: if you are having trouble with your connection, we will be recording the sessions and they will be posted to Learn at the end of the session. Some basic troubleshooting tips can be found [here](#), this one is for [audio](#) problems.
6. At the end of the session, we will have an open question period, where you can type out your question into the chat and the lecturer will respond. These may need to be moderated, and a host will do this if there are too many questions at once.

The WebEx Interface



The WebEx menu from left to right includes:

- **Mute/Unmute** (please mute yourself when not talking)
- **Camera (On/Off)**
- **Share Screen** (the lecturer will be sharing their screen)
- **Record** (the lecture will be recorded; you do not need to)
- **Participants List (Open/Close)**
- **Chat Window (Open/Close)**
- **More Options** (adjust your audio/visual settings)
- **Leave Meeting**

Student Notice of Recording

The course's official Notice of Recording document is found on the course's LEARN site. This document outlines shared responsibilities for instructors and students around issues of privacy and security. Each student is responsible for reviewing this document

**All lectures & tutorials will be recorded and posted on LEARN. Students are strongly encouraged to attend all course lectures and tutorials live to participate in the question and answer period. Students wishing not to be captured in the recordings have the option of participating through the direct chat or scheduling a meeting during office hours.*

Support & Inclusion Commitment

Mental Health Support

All of us need a support system. We encourage you to seek out mental health supports when they are needed. Please reach out to Campus Wellness (<https://uwaterloo.ca/campus-wellness/>) and Counselling Services (<https://uwaterloo.ca/campus-wellness/counselling-services>).

We understand that these circumstances can be troubling, and you may need to speak with someone for emotional support. Good2Talk (<https://good2talk.ca/>) is a post-secondary student helpline based in Ontario, Canada that is available to all students.

Equity, Diversity and Inclusion Commitment

At the School of Architecture, we are committed to foster and support equity, diversity and inclusion. We recognize however, that discrimination does occur, sometimes through an isolated act, but also through practices and policies that must be changed. If you experience discrimination, micro-aggression, or other forms of racism, sexism, discrimination against LGBTQ2S+, or disability, there are different pathways to report them:

A) If you feel comfortable bringing this up directly with the faculty, staff or student who has said or done something offensive, we invite you, or a friend, to speak directly with this person. People make mistakes and dealing them directly in the present may be the most effective means of addressing the issue.

B) you can reach out to either the [Undergraduate office](#), [Graduate office](#), or Director ([Anne Bordeleau](#)). If you contact any of these people in confidence, they are bound to preserve your anonymity and follow up on your report.

C) You may also choose to report centrally to the Equity Office. The Equity Office can be reached by emailing equity@uwaterloo.ca. More information on the functions and services of the equity office can be found here: <https://uwaterloo.ca/human-rights-equity-inclusion/about/equity-office..>

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. See the [UWaterloo Academic Integrity webpage](#) for more information.

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](#). 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 academic offences, and to take responsibility for their actions. [Check [the Office of Academic Integrity](#) for more information.] A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (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, Student Discipline](#). For typical penalties, check [Guidelines for the Assessment of 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](#).

Note for Students with Disabilities

[AccessAbility Services](#), located in Needles Hall, Room 1401, collaborates with all academic departments to arrange appropriate accommodations for 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 [AccessAbility Services](#) at the beginning of each academic term.