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Syllabus

No due date
FE
Test 1
Test 2

Due Sep 13 at 12a.m.
★ Practice Problem 1

Due Sep 20 at 12a.m.
★ Practice Problem 2

Due Sep 27 at 12a.m.
★ Practice Problem 3

Due Oct 4 at 12a.m.
★ Practice Problem 4

Due Oct 11 at 12a.m.
★ Practice Problem 5

Due Oct 18 at 12a.m.
★ Practice Problem 6

Due Oct 25 at 12a.m.
Test 1 Reflection
★ Practice Problem 7

Due Nov 1 at 12a.m.
★ Practice Problem 8

Due Nov 8 at 12a.m.
★ Practice Problem 9

Due Nov 15 at 12a.m.
★ Practice Problem 10

Due Nov 22 at 12a.m.
★ Practice Problem 11

Due Nov 29 at 12a.m.
Test 2 Reflection
★ Practice Problem 12

Due Dec 6 at 12a.m.
★ Practice Problem 13

Due Dec 9 at 12a.m.
★ Practice Problem 14

Due Dec 31 at 12a.m.
Engagement
WeBWorK assignments

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Announcements

There are no announcements for this course.

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14. ★ Practice Problem 2
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Engagement

Spot attendance will be recorded here.

Due at: Dec 31 at 12a.m.

Unlock at: Sep 3 at 12a.m.

Grading Type: Points

Points: 5.0

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FE

Grading Type: Points

Points: 60.0

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Test 1

Grading Type: Points

Points: 30.0

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Test 1 Reflection

It is helpful after a test to reflect on your performance in order to extract useful information for your next major assessment. This reflection consists of File T1reflection.pdf could not be included in the ePub document. Please see separate zip file for access..

Submit a scan (PDF is the only supported format) of your numbered responses.

The reflection is mandatory, but will be assessed for completion only. The questions are simple. **Please take your time on the reflection.**

Due at: Oct 25 at 12a.m.

Unlock at: Oct 20 at 12a.m.

Lock at: Dec 31 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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Test 2

Grading Type: Points

Points: 30.0

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Test 2 Reflection

Like the reflection after Test 1, the reflection after Test 2 consists of File T2reflection.pdf could not be included in the ePub document. Please see separate zip file for access. (the first two are identical to questions from your first reflection -- but the answers may be different!).

For the first four questions, submit a scan (PDF is the only supported format) of your numbered responses. For the last question, look for the Piazza post entitled Test 2 Reflection Q5.

The reflection is mandatory, but will be assessed for completion only. The questions are simple, and research indicates that answering them is materially helpful. **Please take your time.**

Due at: Nov 29 at 12a.m.

Unlock at: Nov 25 at 12a.m.

Lock at: Dec 31 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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WeBWorK assignments

You can access all WeBWorK assignments through this link.

Due at: Dec 31 at 12a.m.

Grading Type: Points

Points: 10.0

Submitting: External Tool

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★ Practice Problem 1

The weekly problems are File PP1.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP1answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 1.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Sep 13 at 12a.m.

Unlock at: Sep 4 at 12a.m.

Lock at: Sep 13 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 10

The weekly problems are File PP10.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP10answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 10.2.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Nov 15 at 12a.m.

Unlock at: Nov 4 at 12a.m.

Lock at: Nov 15 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 11

The weekly problems are File PP11.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP11answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 11.2.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Nov 22 at 12a.m.

Unlock at: Nov 13 at 12a.m.

Lock at: Nov 22 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 12

The weekly problems are File PP12.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP12answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 12.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Nov 29 at 12a.m.

Unlock at: Nov 18 at 12a.m.

Lock at: Nov 29 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 13

The weekly problems are File PP13.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP13answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 13.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Dec 6 at 12a.m.

Unlock at: Nov 25 at 12a.m.

Lock at: Dec 6 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 14

The weekly problems are File PP14.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP14answers.pdf could not be included in the ePub document. Please see separate zip file for access..

You are not required to submit anything for this Practice Problem.

Due at: Dec 9 at 12a.m.

Unlock at: Dec 2 at 12a.m.

Lock at: Dec 9 at 12a.m.

Grading Type: Points

Points: 0.0

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★ Practice Problem 2

The weekly problems are File PP2.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP2answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 2.4.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Sep 20 at 12a.m.

Unlock at: Sep 9 at 12a.m.

Lock at: Sep 20 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 3

The weekly problems are File PP3.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP3answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 3.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Sep 27 at 12a.m.

Unlock at: Sep 16 at 12a.m.

Lock at: Sep 27 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 4

The weekly problems are File PP4.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP4answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 4.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Oct 4 at 12a.m.

Unlock at: Sep 23 at 12a.m.

Lock at: Oct 4 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 5

The weekly problems are File PP5.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP5answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 5.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Oct 11 at 12a.m.

Unlock at: Sep 30 at 12a.m.

Lock at: Oct 11 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 6

The weekly problems are File PP6.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP6answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 6.2.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Oct 18 at 12a.m.

Unlock at: Oct 7 at 12a.m.

Lock at: Oct 18 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 7

The weekly problems are File PP7.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP7answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 7.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Oct 25 at 12a.m.

Unlock at: Oct 14 at 12a.m.

Lock at: Oct 25 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 8

The weekly problems are File PP8.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP8answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 8.2.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Nov 1 at 12a.m.

Unlock at: Oct 21 at 12a.m.

Lock at: Nov 1 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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★ Practice Problem 9

The weekly problems are File PP9.pdf could not be included in the ePub document. Please see separate zip file for access.. Solutions and the grading rubric are File PP9answers.pdf could not be included in the ePub document. Please see separate zip file for access..

The Practice Problem for this assignment is 9.3.

Submit a scan (PDF is the only supported format) of your self-graded Practice Problem. Your grade out of 10 should be indicated clearly at the top of the first page.

Remember that these assignments are assessed for completion (and may be assessed for the accuracy of your grading). **How you do on the problem itself is not assessed. Give your best honest effort.**

Due at: Nov 8 at 12a.m.

Unlock at: Oct 28 at 12a.m.

Lock at: Nov 8 at 12a.m.

Grading Type: Points

Points: 1.0

Submitting: Online Upload

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MATH 111/221

Basics

For issues about mathematics and homework, use the Piazza forum (the link is on the sidebar) or attend office hours. Office hours with the professor take place immediately following lectures, first outside the classroom and then in the professor's office on the second floor of the Math Annex building.

Email the professor only *for personal or administrative issues*.

Questions on invigilated assessments (the two tests and the final exam) fall into two categories.

☆	These questions assess core techniques. ☆ questions account for two-thirds of the marks on each invigilated assessment. *The majority of those questions **will** be taken directly from WeBWorK assignments.* Approximately two-thirds of class time will be spent on the theoretical underpinnings and direct practice of ☆ questions. To *pass* the course, aim for success on ☆ questions.
★	These questions extend core techniques to new contexts. *It is normal to look at these questions and initially not know what to do.* ★ questions account for one-third of the marks on each invigilated assessment. Approximately one-third of class time will be spent on direct practice of ★ questions. In most classes, the end of the lecture will be spent introducing and starting work on a ★ question. Each week you will also be given a ★ question as a Practice Problem, along with a grading scheme. With the exception of the last week, every due date for a WeBWorK assignment is also the due date to submit a scan of the self-graded Practice Problem. This will be assessed for completion only, and is to encourage you to take the Practice Problems seriously. There is no advantage to looking at the grading scheme in advance. *Some Practice Problems **may** reappear on invigilated assessments*

	invigilated assessments. If you want to *get an A* in the course, aim for success on ☆ *and* ★ questions.

Attendance in this course is mandatory, and necessary for success. Do not attend lectures passively. Instead, prepare for each lecture by skimming the relevant section(s) of the textbook. Take every opportunity during a lecture to do the presented work yourself. *If you have a question, ask.*

In addition to attending lectures, schedule at least one hour per day, six days of the week, for uninterrupted, distraction-free *deliberate practice*. Deliberate practice consists of turning off your phone, working on WeBWorK problems and Practice Problems (not reading notes or watching videos), and reflecting on your work. What "unlocked" the problem for you? How would you describe the main moves in your solution to a classmate? If the numbers or parameters of the problem were different, how would your solution change?

You can succeed in this course! But it requires substantial effort sustained over time.

Calendar and resources

Calendar
Textbook
Piazza
Math Learning Centre

The content covered week by week can be found below:

This course uses the UBC edition of Interactive Linear Algebra. This is a free online textbook adapted by UBC professors for UBC students; there are no physical copies available but the PDF file is easily printable.

The link to Piazza can be found on the sidebar.

Piazza is a discussion board where you can ask questions or talk with your classmates, professors, and TAs. If you have general questions about the course (*e.g.* where to hand in assignments) or technical questions (*e.g.* how to format a WeBWorK answer), post them on Piazza instead of emailing the professor, as

other students almost certainly have the same question.

Feel free to ask questions about WeBWorK assignments and Practice Problems. However, you must try the question first, and in your post, describe the work you have done so far. It is a good idea to include a screenshot of your work.

If you respond to a question, you must not give away the answer. Bonus engagement marks may be given for especially insightful questions and responses.

The Math Learning Centre (MLC) is a drop-in study space, open to all students, where you can get help from Math graduate students.

Grades and assessments

Your final grade will be calculated using the chart below.

Dates	Topics	Textbook sections	Comments	Notes
September 3-September 5	Systems of linear equations, vectors	2.1, 1.1		
September 8-11	Vector equations and spans, row reduction	1.2, 2.2		
September 15-19	Parametric form, matrix equations, solution sets	2.3, 2.4, 3.1		
September 22-26	Linear independence,	3.2, 3.3		

	subspaces			
September 29, October 1-3	Bases, dimension, coordinate systems	3.4, 3.5	September 30 is a statutory holiday	
October 6-10	The Rank Theorem	3.6	**Test 1** takes place in your first class this week	
October 14-17	Transformations	4.1, 4.2, 4.3	October 13 is a statutory holiday	
October 20-25	Matrix multiplication, inverses, the Invertible Matrix Theorem	4.4, 4.5, 4.6		
October 27-31	Determinants	5.1, 5.2		
November 3-November 7	Eigenvalues and eigenvectors	6.1	**Test 2** takes place in your first class this week	
November 13, 14	The characteristic polynomial	6.2	The Midterm Break is November 10-12	
November 17-21	Similarity, diagonalization, complex eigenvalues	6.3, 6.4, 6.5		
November 24-28	Dot products and orthogonality, orthogonal complements	7.1, 7.2		
December 1-5	Orthogonal projection	7.3		

Assessment	**Percent**
WeBWorK assignments	5%
Engagement and Practice Problems	5%
Tests	30%
Final exam	60%

WeBWorK assignments are posted approximately weekly. WeBWorK assignments

WeBWorK assignments are posted approximately weekly. WeBWorK assignments make up **5%** of your final grade.

WeBWorK assignments are used to assess core techniques. Calculation-based questions on WeBWorK assignments are exclusively at the ☆ level. ☆ questions account for two-thirds of the marks on each invigilated assessment. *The majority of those questions **will** be taken directly from WeBWorK assignments.*

Your lowest WeBWorK assignment grade will be ignored. This is intended to account for technical difficulties, illness, and other personal situations.

You can access WeBWorK by clicking on "Assignments" on the sidebar.

Engagement and self-graded Practice Problems are worth **5%** of your final grade.

Attendance: Attendance is mandatory, and may be checked. If you cannot attend a particular class, email the instructor in advance.

Self-graded Practice Problems: Every week, you will be given a ★ question as a Practice Problem, along with a grading scheme. With the exception of the last week, every due date for a WeBWorK assignment is also the due date to submit a scan of the self-graded Practice Problem. This will be assessed for completion only, and is to encourage you to take the Practice Problems seriously. There is no advantage to looking at the grading scheme in advance.

Additional Engagement: On occasion, you may be asked to complete additional mandatory engagement work (for example, surveys).

Each instance of missed attendance, of incomplete Practice Problems, or of missed engagement work, will result in a deduction of **1%** of your final grade (to a maximum of 5%). You may, however, skip one Practice Problem without penalty. This is intended to account for technical difficulties, illness, and other personal situations. *Some Practice Problems **may** reappear on invigilated assessments.*

Bonus marks may be awarded for extra, voluntary engagement. For example, there are some occasions in the course where graduate student instructors will teach under the supervision of the professor. After each such instance, there will be an opportunity for feedback. Providing feedback may result in a bonus engagement mark.

There are two tests. Each test is worth **15%** of your final grade. Each test consists of ten ☆ questions worth a total of 20 marks, and one ★ question worth 10 marks.

The final exam is worth **60%** of your final grade. The exam consists of twenty ☆ questions worth a total of 40 marks, and two ★ questions worth a total of 20 marks.

If you find a marking error on returned work, you can request a regrade within 48 hours of the assessment being returned. All regrade requests must be submitted via email. Your work may be regraded in part or in full. Your mark may be adjusted downward as well as upward. Note that WeBWorK marks answers wrong if they are entered with incorrect syntax. This is not a grading error.

Frequently Asked Questions

This section will be updated throughout the term with common questions and problems.

- Will lectures be recorded?
- On written assignments and exams, is it necessary to simplify answers?
- Will final grades be scaled?
- Are calculators allowed?
- Details

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Office Hours

You are free to attend the office hour that best fits your schedule

Large Class Instructor Office Hours

Instructor	Section	Time	Location
Anthony Wachs	1A1	Wednesdays 11am - 12pm	MATH229B
	1A2	Fridays 10am - 11am	MATH229B
Usman Muhammad	1A3	Mondays 10:00am-11:00am	MATH234
	1A4	Wednesdays 10:00am-11:00am	
Mark Mac Lean	1AR	Check Section Page	MATX 1209 and online

Small Class Instructor Office Hours

Instructor	Section	Time	Location
Natalia Accomazzo Scotti	AR1 A32 AR4 A35	Thu. Dec. 8th: 12-13 ESB 2012 Thu. Dec. 15th: 10-13 ESB 2012 Might add zoom office hours if there's need, write me an email if interested.	ESB 2012
Emanuele Bodon	A12 A23 A24 A48	2022-12-01 (Thursday) MATH 102 from 12pm to 1pm. 2022-12-02 (Friday) CHEM C124 from 3pm to 4pm. 2022-12-07 (Wednesday) LASR 104 from 9am to 10am. 2022-12-08 (Thursday) LSK 460 from 10am to 11am. 2022-12-08 (Thursday) MATH 102 from 11am to 12pm. 2022-12-09 (Friday) CHEM C124 from 2pm to 3pm. 2022-12-14 (Wednesday) LASR 104 from 9am to 10am. 2022-12-15 (Thursday) MATH 102 from 11am to 12pm.	See previous column.
Marina Garrote-López	AR2 A21 A22 A46	Wednesdays 2:00 - 4:00 pm	LSK 300C
Yunhui He	A13 A34 A15 A45	2022-12-02 Friday (Zoom): 10:00am -12:00pm: https://ubc.zoom.us/j/62869531964?pwd=TERNQ0hwREU2bm1vMElXbHRpWmt0QT09 2022-12-05 Monday (Zoom): 3pm-5pm	Zoom

Instructor	Section	Time	Location
		https://ubc.zoom.us/j/68780451164?pwd=YXNBYkpWUnprMkJJTnYvd1RWaEpXUT09	
		2022-12-12 Monday (Zoom): 3pm-5pm https://ubc.zoom.us/j/66195512220?pwd=alVlQkVqcm1xR2Z4WjVoeGFnd3A0UT09 2022-12-13 Tuesday (Zoom): 3pm-5pm https://ubc.zoom.us/j/66184224119?pwd=bENEekt4RmR0N3pYVnB4eTVOVEt3QT09	
Severin Schraven	A41 A42 A16 A38	Wednesdays 19:00-21:00 https://ubc.zoom.us/j/68660009277?pwd=d2NZbjNLTHlkRUwxRzhQSllYa28yZz09	Zoom
Kelly Paton	AR3	Thursday December 8, 12-1PM (zoom) Wednesday December 14, 12-2PM (zoom) ^ if you have a schedule conflict on Wed, send me an email with a preferred time: kmpaton at math dot ubc dot ca	Zoom (click here)
Gabriel Currier	A31 A33 A36 A47	Mondays 1-2pm Wednesdays 1-2pm	LSK 300C
W. Sebastian Gant	AR7 A43 A44 A37	Wednesday 4:00-5:00 Friday 10:00-11:00	LSK 300C

Instructor	Section	Time	Location
Junjie Zhu	A11	Fri. Dec 2nd 3:00 - 5:00	LSK 300B
	A14 AR5	Tue. Dec 6th 1:00 - 3:00	MATX 1102
	AR6	Thu. Dec 15th 2:30 - 4:30	MATX 1118

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Section 1A2

zoom link

Office hours online: Fridays 10:25 - 11:15 and 13:25 - 14:15

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Section 1A3

Office hours

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Section 1A4

zoom link

Office hours online: Fridays 10:25 - 11:15 and 13:25 - 14:15

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Section 1AR

ANNOUNCEMENTS:

You should check here regularly for announcements specific to this section (1AR).

SEPT 5: We are teaching from the UBC Lightboard Studio this term and we have created a short video to introduce you to the studio and how we will be interacting during lectures: https://ubc.ca.panopto.com/Panopto/Pages/Viewer.aspx?id=a4c98e06-bd50-4d2a-aec2-af04016f3319

SEPT 5: Mark's office hours vary from week to week and are posted on this page over the prior weekend.

==========

Instructor: My name is Professor Mark Mac Lean. You are free to call me Professor Mac Lean, Professor Mark, or just Mark, but **not** Professor Lean (my family name is Scottish in origin and has two parts).

Office: Math Annex Room 1209.

Email: maclean@math.ubc.ca Please put MATH 100A at the start of the subject line of your email. I endeavour to respond to emails within one business day.

Note: I do not read messages in Canvas regularly so please communicate by email.

Lecture GTA: Matthew Scott. Matthew will attend each lecture to help me manage your questions. He will also answer questions in the Chat or QA for Zoom. He does not hold office hours for this course.

We will have live online lectures which we expect you to attend in a synchronous fashion. I will be broadcasting from UBC Studio's Lightboard Studio. I will take questions during lectures and manage these with the assistance of a TA (Matthew).

We will record the lectures for later review.

Please note that class lectures at UBC are private, not public, spaces. There will be an expectation that students will not share lectures, in whole or in part, with

people outside of this section, including via social media. Students are not permitted to record these lectures themselves.

There will be in-class synchronous assessments, as per the course syllabus. Please be aware the final exam will be written in-person as per UBC guidelines.

Lectures will be accessed from the Zoom link:
https://ubc.zoom.us/j/61457623968?pwd=TGV6NkhEZWNxMU9PdC95SGFDUUx2dz09 (Passcode: 470224) You will need to be signed into Zoom to access this class and I suggest you read the UBC Zoom Guide for Students, where you will learn how to get a UBC Zoom account if you don't have one.

Lectures will also be available through Panopto. Panopto is often preferred by those with limited bandwidth internet access. Note the livestream in Panopto will have about a 30 second delay from real life. The Panopto stream will not have a chat feature.

There will be both a Chat feature and a QA feature enabled during class. The former shares your questions and comments with everyone in attendance and the latter sends the questions privately to me and the TA. We are using Zoom's Webinar mode for lectures, so you won't see the sea of faces of your classmates during lectures.

Office hours: I will hold a mix of online and in-person office hours each week. I will post a schedule each weekend of the times for the following week.

Office Hours for the Week of September 10th: TBA.

Persistent link for online office hours. (Meeting ID: 666 8160 1377 Passcode: 078457)

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