MATH*1210 Calculus II
Winter 2021

(Revision 1: January 8, 2021)

DISCLAIMER:

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website https://news.uoguelph.ca/2019-novel-coronavirus-information/ and circulated by email.

1 INSTRUCTIONAL SUPPORT

1.1 Instructors

Kimberly M. Levere, Ph.D.
Office: MacN 539, ext. 56908
Email: klevere@uoguelph.ca
Office hours: Wednesdays 1:30pm-2:30pm
via Zoom link https://zoom.us/j/96772781235 (Meeting ID: 967 7278 1235)

plus synchronous lecture time on Tuesdays, 11:30am-12:50pm via our lecture Zoom link (found on Courselink under "Zoom").

Due to large class size, office hours are held in a group setting. I have found this to be a very productive and supportive learning environment in the past. Should you require an individual, private appointment with me, please contact me by email to set up a meeting.

1.2 Teaching Assistants (and their Office Hours)

John Dewhurst	Mondays 9:30am-11:00am
Brittany Howell	Tuesdays 1:30pm-3:00pm
Lia Humphrey	Wednesdays 10:00am-11:30pm
Kolja Kypke	Thursdays 9:30am-11:00am
Myles Nahirniak	TBA
Sarah Smook	Fridays 10:00am-11:30am
Daiana Spataru	Mondays 1:00pm-2:30pm
Hamdah Tahir	Fridays 1:00pm – 2:30pm

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2 LEARNING RESOURCES

2.1 Course Website

Course material, news, announcements, and grades will be regularly posted to the MATH*1210 Course site. You are responsible for keeping up-to-date on this site.

2.2 Required Resources

M. Demers and K. Levere, *MATH*1210 – Calculus II Course Manual- 7th Edition*, available at the MacNaughton Book Store. This is the primary resource for the course and functions both as the textbook, and as a notebook that we will complete together in class as the course progresses. It can be purchased as a printed copy, or as a pdf. Please be sure that you have the current version, the 7th edition, (only available in the MacNaughton bookstore) as a number of changes have been made to last year's manual. Remember that this resource is protected by copyright and is not to be sold or redistributed in any form.

2.3 Recommended Resources

Not applicable

2.4 Additional Resources

Lecture Information:

Due to the COVID-19 pandemic and the size of our class, we unfortunately must deliver our course remotely. While this isn't my preference, I am hoping that the structure I've selected promotes a sense of community and productive learning. Here is how I'm planning on delivering the course content:

1. Asynchronous Lecture Videos: In these videos we'll fill in your course manual together. Since I want these to be very focused, I have opted to record these ahead of time so that you can watch them on your own schedule (plus, you can rewind me and watch the videos more than once if you want). I will do my best to make this experience as close to what it would have been in a face-to-face setting.
2. Synchronous Lecture Time: I specified a synchronous time slot for our course simply to give us some time to work together. While the content of the course will be delivered in asynchronous lecture videos, this synchronous time will give me a chance to talk about intricacies of the material, pitfalls, to do extra examples and to answer questions in real time. The idea is that you will watch and complete a specified set of videos ahead of this synchronous time so that you already have your questions ready for me and can sort out anything that didn't make sense when you watched your lecture videos. I will also use some of these synchronous times for assessments. As long as there is no assessment being run, you are free to attend some, all or none of these synchronous lecture times. If the lecture videos made sense to you and you have no questions, great! If you come out and your question is answered in the first 10 minutes, you can head out at any time. If you just like to listen to other people's questions and explanations, that's awesome too! I want you to feel supported. I want you to feel that you have LOTS of time to ask questions and get help.

Lecture videos will be available via links on Courselink (housed in YouTube). In addition, completed lecture notes corresponding to each video will be uploaded to the Course website. This is not a substitute for video lecture attendance! I strongly recommend that you watch every lecture video as I feel that some things are better explained in words than in text. This structure is a bit dangerous if you aren't organized! To keep yourself up to date, I suggest scheduling fixed time each week for which you watch your lecture videos (just like a regular lecture time slot!). I have also created a "What Should I Be Doing" tab in Courselink that lists what is expected of you every week.

Disclaimer: Student Identity Disclosure in Recordings

The university has requested that I include the following disclaimer regarding recorded materials (even though my lectures are asynchronous, there may be a scenario in which I record an office hour or other group video which makes this relevant to us):

By enrolling in a course, unless explicitly stated and brought forward to their instructor, it is assumed that students agree to the possibility of being recorded during lecture, seminar or other "live" course activities, whether delivery is in-class or online/remote.

If a student prefers not to be distinguishable during a recording, they may:

1. turn off their camera
2. mute their microphone
3. edit their name (e.g., initials only) upon entry to each session
4. use the chat function to pose questions.

Students who express to their instructor that they, or a reference to their name or person, do not wish to be recorded may discuss possible alternatives or accommodations with their instructor.

Lab Tutorial Information: Since the course is being delivered asynchronously, I plan on incorporating my usual lab content into our synchronous time together.

Other: Past tests, supplementary questions, and other resources may be posted to the Course website as needed. Again, it is important that you check regularly to keep up-to-date.

2.5 Communication & Email Policy

Major announcements will be posted to the course website. **It is your responsibility to check the course website regularly.** As per university regulations, all students are required to check their <mail.uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its student.

2.6 Getting Help

My number one priority is to ensure that you are supported and have lots of opportunities to ask questions and get help! Here are some options for getting help in this course:

- Ask questions during the Tuesday Synchronous Lecture time, 11:30am-12:50pm
- Come office hours (either mine or one of the TAs). Don't ever hesitate to drop in, even if you think you are behind in your studying. Getting you caught up is **exactly** what those opportunities are there for!
- Post to the discussion board on Courselink. This is a great place to post your questions! I will check this often and respond as soon as I am able. I have even given you the option to post anonymously in case you are shy ☺ It is also a great way for you to help others if you see a question that someone else posts that you can help out with! This is one of the best ways to master a concept: by explaining it to someone else!
- Talk to a TA in the Mathematics Learning Centre. This is a place where Teaching Assistants are paid to work daily (Monday-Friday) helping students with their courses. While you are not allowed to ask about an assignment, test or exam question, certainly these TAs can help to explain course content and work through Practice questions from your textbook!
    - Monday, Wednesday 9:30am-3:30pm
    - Tuesday, Thursday 10:00am-4:00pm
    - Friday 9:30am-2:30pm
- Send me an email (klevere@uoguelph.ca). Since there are 450 of you and only ONE of me, I would prefer to answer questions in a group forum (so that I can help more of you at once), but certainly for more personal queries, this is a great option. If you ask questions by email (or even in Courselink!), it would be extremely helpful for you to attach a picture of your work, so I can easily see where you might be stuck and be able to help you more quickly. I usually try to respond within a few hours. However, I get a lot of email from students and I need to make sure that I have the chance to help as many people as I can in the time I have! So be warned that if you send me many emails with various questions, it may take a day or two to get back to you.

3 ASSESSMENT

3.1 Dates and Distribution

	Scheme #1	Scheme #2	Scheme #3	Scheme #4
Academic Misconduct Quiz	1%	1%	1%	1%
Assignments (total of 8)	24% (3% each)	24% (3% each)	24% (3% each)	24% (3% each)
Mobius Quizzes (total of 10)	10% (1% each)	10% (1% each)	10% (1% each)	10% (1% each)
Term Test 1	15%	5%	15%	15%
Term Test 2	15%	15%	5%	15%
Term Test 3	15%	15%	15%	5%
Final Exam	20%	30%	30%	30%

Your final grade will be calculated using the most favourable of the above grading schemes. Considerations may be made according to the policies listed in Section 3.2.

Academic Misconduct Quiz: One of my biggest concerns with the virtual delivery of courses is academic integrity. I expect that you are taking this course because you are interested in the content and/or to meet a requirement of your degree. Hopefully, that alone is motivation enough to do things honestly! To ensure that everyone fully understands what academic misconduct is, I ask that you read the documentation on this subject on the University of Guelph website found here:

https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml

Be sure to read all of the sections listed on the right:

After reading about Academic misconduct, you'll be required to complete a quiz that tests your understanding. This quiz will be completed in Courselink and you will have unlimited attempts (your highest score will count as your mark). You must complete this quiz with a grade of 80% or higher before any assessments are submitted for grading (that is, prior to January 21st). Failure to do so will result in a grade of 0 on any assessments that occur prior to you mastering this quiz.

Staged Penalty System

Having clearly outlined what constitutes academic misconduct, I will be taking this extremely seriously in this course. Certainly I want the degree that you are working so hard for to be valuable when you finish it, so I have to ensure that you are only receiving marks for work that you have completed on your own and not with unauthorized assistance. Unfortunately, many cases of academic misconduct were reported in the fall semester as the result of unauthorized collaboration with other students and the use of "tutoring" websites in which "experts" post complete answers to questions in as little as 15 minutes. Such an environment makes assessment incredibly challenging. To be clear, this sort of behavior is indeed academic misconduct and will absolutely NOT be tolerated in this class.

In response to this, my intention is to respond to cases of academic misconduct by making adjustments to assessment delivery for the class as a whole. I hate it that these penalties will apply to everyone, but at the end of the day, it is impossible for me to know how far the misconduct stretches and who has talked to who. The objective is to devalue the use of such unauthorized behavior so that there is no benefit to it. Since the penalties impact future assessments, hopefully this will act as a deterrent. Here is how it works:

I will begin this semester with a positive and trusting outlook, expecting that each of you will complete this course with academic integrity. I will initially allow for assignments to be done in groups of up to 2 students (but you can only work with the same person on ONE assignment). Term Tests will be done individually. All questions on assessments will be released simultaneously allowing you to work in whatever order you choose, or to come back to questions that you struggle on initially. Responses on assignments, term tests and the exam will require

your written solutions and part marks will be readily available for partially correct responses and work. No proctoring (Respondus Lockdown, Zoom, etc.) will be used while assessments are being completed.

If at any time, it comes to my attention that unauthorized collaboration or the use of unauthorized websites or materials (like Chegg, OneClass, Online Integral Calculators, Desmos, or any other websites that list answers to questions) have been used by ANY student in this course then I reserve the right to

- Weight the current assessment at 0%, shifting the weight to the final exam.
- Revoke group work privileges for weekly assignments and Mobius quizzes.
- Release assignment and/or test questions one at a time rather than simultaneously.
- Reduce the amount of time given to complete assessments thus limiting the ability to use outside resources.
- Change the format of tests and the exam to multiple choice rather than written answer thus eliminating the possibility for part marks.
- Instituting the use of proctoring software (Zoom, Respondus Lockdown, etc.)

In addition to the above provisions, any person caught committing academic misconduct will be submitted for academic review by the Dean's office and will face additional penalties.

Please be honest. No one asked for the semester to be run this way, so please work with me to make the best of this situation and conduct yourself maturely and responsibly.

Scheduled Assessments

Mobius Miniquizzes: I have designed 10 short miniquizzes in the Mobius platform to help you to practice the course material. Since only some concepts in this course lend themselves to such quizzes, these will only be available for some topics and not all. Once we have covered the necessary content, I will make any related Mobius quizzes available for completion. You will have unlimited attempts and your best attempt will count toward your final grade. Much like the assignments for this course, you may work with a partner to complete these quizzes, but you may not use the same partner twice. The due date for all Mobius quizzes is the last day of classes (April 12, 2021) at 5:00pm EST. No extensions will be granted since there is plenty of time during the semester to complete these. If you choose to leave these all to the last minute and then run out of time or something comes up, I will not grant an extension or a shift in weight. I suggest that you do these miniquizzes while you are working on the related content so that they serve as an additional resource for learning and practicing the material. Since there are many servers for this platform, a google search may lead you to the wrong one! To ensure that you find our course, please use the link listed on Courselink to access the Mobius quizzes (the login is the same as your U of G email).

Assignments: Every week (aside from week 1 and weeks in which there are term tests) you will be given a short assignment to complete for marks. The content will correspond to the previous week's lessons. These questions are meant to ensure that you are following along and understanding the course content. These are closed-book, closed-resource assessments. You may not access any websites of any kind (including any other person or peer beyond your group, online websites that may list answers to exact or similar questions, or paid websites like Chegg or anything similar to this) or use your notes to complete these assignments.

In order to facilitate interaction and perhaps alleviate some stress, I will allow you to work alone or in groups of at most 2 (this privilege may be revoked if academic misconduct is committed by anyone in the course). You may only work with the same partner for one group assessment. You are not permitted to discuss the assignment with anyone else until after the due date. Assignments will be distributed at the beginning of our Thursday synchronous lecture time (at 11:30am) and will be due that same day at 11:30pm, EST. You will write out your complete and detailed solution to the problem(s) on the assignment and upload your answers to the Crowdmark system (a demo video of how to do this is already posted on Courselink to help you with this!). It is at the moment of uploading that you can identify your group members (if you've chosen to work in a pair) and only ONE submission will be required for the group. Note that should academic misconduct be committed by any student at any time, all future assignments will be completed individually (as outlined by the staged penalty system). Please refer to the table listed below for dates and content of these assignments.

Assignment #1	Thursday, January 21, 2021 Available at 11:30am Due at 11:30pm	Review of Semester #1 Integrals & Chapter 1: Complex Numbers
Assignment #2	Thursday, January 28, 2021 Available at 11:30am Due at 11:30pm	Chapter 2: Inverse Functions
Term Test #1	Thursday, February 4, 2021 11:35am-12:40pm	Chapters 1-3 inclusive
Assignment #3	Thursday, February 11, 2021 Available at 11:30am Due at 11:30pm	Chapter 4: L'Hopital's Rule
Assignment #4	Thursday, February 25, 2021 Available at 11:30am Due at 11:30pm	Part of Chapter 5: sections 5.1-5.2 inclusive - Integration by Parts, Trig Products (p. 101-118)
Term Test #2	Thursday, March 4, 2021 11:35am-12:40pm	Chapters 4-6 inclusive
Assignment #5	Thursday, March 11, 2021 Available at 11:30am Due at 11:30pm	Chapter 7: Volumes of Revolution
Assignment #6	Thursday, March 18, 2021 Available at 11:30am Due at 11:30pm	Chapter 8: Improper Integrals and Part of Chapter 9: section 9.1: Arclength of a Function

Term Test #3	Thursday, March 25, 2021 11:35am-12:40pm	Chapters 7-9 inclusive
Assignment #7	Thursday, April 1, 2021 Available at 11:30am Due at 11:30pm	Chapter 10: Polar Equations
Assignment #8	Thursday, April 8, 2021 Available at 11:30am Due at 11:30pm	Chapter 11: Taylor & MacLaurin Series

**Note that the duration and delivery of assignments is subject to change should academic misconduct be discovered at any time, by any student in the course.

Term Tests: There will be 3 term tests this semester all of which will be completed individually (regardless of what penalty stage we are in). They are closed-book and closed-resource. That is, you are not to use any websites, books, peers, etc. to complete your term test solutions. Tests will take place during the Thursday synchronous lecture time to ensure that all students are available to write. The dates and content are listed in the table above. I have posted several term tests from previous offerings of the course. Since historically there have only been two term tests, the content won't necessarily be consistent with the content for your term test, but I'll be careful to point out which questions are useful and which ones will be important for future assessments. Since you are not able to use your notes or resources here, it is important that you are studying effectively to ensure that you are able to produce solutions on your own. It is very different to "follow along" with an example from class to complete a practice question than it is to fully come up with the steps on your own. To ensure that you understand the content well enough to complete this assessment effectively, I recommend practicing *without* your notes and resources as much as possible to prepare for these assessments.

Final Exam: The final exam for this course will take place on Saturday, April 24th, 2021 from 8:30am-10:30am. Like the term tests for this course, this will be a closed-book, closed-resource assessment that is to be completed individually. The format will depend on what penalty stage we are in (either written answers submitted to Crowdmark, or a fully multiple choice exam on Courselink using Respondus Lockdown (I hope not!)). This will be a cumulative assessment covering all chapters of the course. Past final exams are available on Courselink for you to practice with.

Best Practices for Writing Virtual Tests and Exams

- Be aware that there may be announcements for me to make, especially if I catch a small error or edit on a test or assignment, or if I want to clarify a problem. In those cases, I will send a class email to communicate this information. Therefore, you should absolutely keep your U of G email open while you are writing your assessments in case I do make an announcement; I am assuming that you are reading these announcements as I make them, as though I made them in person, and you are responsible for observing any edits that I point out! I totally welcome you to communicate with each other if these come up, in order to keep one another informed. At any time, you are welcome to send me an email and I will do my best to immediately reply to you during any test, assignment or the exam.

- When it comes to submitting via Crowdmark: in an environment of virtual delivery, there is the risk that occasionally, you could run into technical difficulties during submission. I strongly advise you to have a contingency plan for these sorts of situations. For example:
    - Have a friend's or family member's backup phone ready to go in case your own phone, camera, or scanner unexpectedly fails.
    - Submit your work while you know that your internet, Wi-Fi, etc, are strong. If you are working on solutions to a test or assignment, submit your solutions as you complete each problem, rather than waiting to submit all solutions at the end of the exam time. If your Wi-Fi goes down, that could leave you without enough time at the end to submit.
    - If you have continued internet trouble and you are worried that you will not be able to submit your test, contact me through email at klevere@uoguelph.ca and include pictures of your work. While I would ideally receive this sort of information BEFORE the due date of the assessment, I can understand that without a stable connection, even an email may be difficult! If possible, have a friend contact me by email to let me know that you are experiencing technical difficulties so that I at least have some proof that you are doing things honestly but are facing some technical challenges.
    - From a practical standpoint, it should be clear that there is no way for me to verify that any claim a student may make about a test or assignment submission issue is valid and true. Following the above pointers will help to mitigate the potential for trouble and will let me be confident that your issues are valid. It is important that I follow these guidelines strictly, out of fairness to the vast majority of students who will submit correctly and within the allotted time. I need to make sure that everyone has the same fair chance to complete these assessments and that no one is given more time to write than anyone else. We'll work together on this and I'm sure we'll sort out anything that arises. We have to be flexible, I think.
- Do your best to make sure that ALL of your work is submitted correctly and on time! For example, if you accidentally upload the same solution for multiple questions, there will not be anything that I can do to verify that the unsubmitted question was done within the time limit – and that will be disappointing for both you and myself. Make sure you leave yourself enough time to double-check your submissions.
- When it comes to cheating: There may be times when you feel pressured, stressed, or unprepared. In these cases (or ever), it is not a good idea to cheat. Sites dedicated to quick math help (such as Chegg, CourseHero, Stack Exchange and others) will be monitored – and their use is strictly prohibited for tests assignments and the exam! It is never worth risking your academic record and potential credit in the course, just to obtain a couple of extra marks on one assessment. This is especially true when these assessments are worth as little as 3% of your mark in the first place. I strongly advise you not to fall into this trap.

3.2 Course Grading Policies

Academic Consideration: When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with

your name, ID number, and e-mail contact. See the academic calendar for information on regulations and procedures for Academic Consideration:
http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml

Accommodation of Religious Obligations: If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor at the start of the semester to make alternate arrangements. See the undergraduate calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations:
http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml

Missed midterm tests or assignments: Missed assignments and tests will receive a grade of 0%, unless you miss an assessment due to any of the above reasons and **bring it to the attention of the course instructor within 1 week of the assessment date in a written email**, in which case the weight of the missed assessment will be added to the final exam. There will be no makeup tests or assignments.

Illness: The University will not normally require verification of illness (doctor's notes) for fall 2020 or winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.

Passing grade: In order to pass the course, you must receive a final grade of at least 50%.

Group Work: You are encouraged to work together to learn the course material and complete For You to Try exercises. Provided that academic misconduct is not detected, you may also complete assignments and Mobius quizzes in groups of up to 2 (and you can only work with the same partner once). All term tests and the final exam are individual assessments and must be completed on your own and NOT in a group.

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4 Aims, Objectives & Graduate Attributes

4.1 Calendar Description

This course is a continuation of MATH*1200. It is a theoretical course intended primarily for students who need or expect to pursue further studies in mathematics, physics, chemistry, engineering and computer science. Topics include inverse functions, inverse trigonometric functions, hyperbolic functions, indeterminate forms and l'Hopital's rule, techniques of integration, parametric equations, polar coordinates, Taylor and Maclaurin series; functions of two or more variables, partial derivatives, and if time permits, an introduction to multiple integration.

Credit Weight: 0.5 Department: Mathematics & Statistics **Campus**: Guelph
Prerequisite: One of MATH*1000, MATH*1080, or MATH*1200
Restrictions: MATH*2080

4.2 Course Aims

This course extends the ideas and concepts covered in a first Calculus course. The objective of the course is to broaden your mathematical background to explore more advanced topics. The main goals of the course are (1) to teach students the Calculus concepts listed in section 4.1 at a level that promotes a deep understanding and (2) to explain how such concepts are applicable in their various degrees by exploring real-world problems.

4.3 Learning Objectives

At the successful completion of this course, the student will have demonstrated the ability to:

1. Understand fundamentals of complex numbers in various forms.
2. Understand inverse functions (including inverse trig), domains, ranges, and graphs.
3. Define and graph hyperbolic functions and their inverses.
4. Identify indeterminate forms and effectively use L'Hopital's rule to evaluate limits.
5. Utilize various advanced integration techniques to find antiderivatives.
6. Evaluate improper integrals.
7. Calculate volumes of revolution using definite integrals.
8. Calculate the arclength of a curve using integral formulas.
9. Work with parametric curves and polar coordinates.
10. Derive Taylor and MacLaurin series for a variety of functions.
11. Extend concepts to multivariable functions, including partial derivatives.

4.4 Graduate Attributes

Successfully completing this course will contribute to the following CEAB Graduate Attributes:

Graduate Attribute	Learning Objectives	Assessment
1. Knowledge Base for Engineering	1-10	Exams, Labs
2. Problem Analysis	1-10	Exams, Labs
3. Investigation	1-10	
4. Design	-	-
5. Use of Engineering Tools	-	-
6. Communication	-	-
7. Individual and Teamwork	1-10	Labs
8. Professionalism	-	-
9. Impact of Engineering on Society and the Environment	-	-
10. Ethics and Equity	-	-

11. Environment, Society, Business, & Project Management	-	-
12. Life-Long Learning	-	-

4.5 Instructor's Role and Responsibility to Students

As your instructor, I must:

1. Develop and deliver course material in a professional way that facilitates learning for a variety of students and learning styles;
2. Attend all lectures, filling in the Course Manual as we proceed in each lecture. We will provide completed course notes online regularly, but we strongly urge you to come to class. Bear in mind that most Tutorials will not use the Course Manual and these completed notes might not be provided to you.
3. Respond to you. This includes, as time permits, questions in lectures and lab tutorials, after classes, during office hours, or through email (where we reserve the right to reply within a timeframe of 1-2 days). You are more than welcome to contact either of us at any time through these means if you have questions or concerns about the course or the course material.
4. Evaluate you fairly, and fairly as compared to your peers, providing prompt feedback on your performance and justification for your grade. We must provide academic consideration, where appropriate, as described in Section 3.

4.6 Students' Learning Responsibilities

As a member of this class, you are expected to:

1. Take advantage of the learning opportunities provided during lectures and tutorials;
2. Treat others with respect and dignity whenever you address them, in-class or online.
3. Genuinely try all homework in a timely manner, including the online Miniquizzes and the "For You to Try" component of the Course Manual, on your own time;
4. Seek help if you have tried the homework and are still having difficulty with the course content. This means contacting us (*not* just at the last minute!) and possibly considering other resources as we recommend them to you;
5. Check all grades against tests that have been returned to you, once they are posted to the Course website, to verify that the correct mark has been recorded.
6. Notify us, as described in Section 3, in the case that there are missed tests or academic conflicts that are known in advance. If illness, work, or extra-curricular activities are causing you to struggle, you are advised to keep us up-to-date on your progress, so that we can be more helpful to you.

5 TEACHING AND LEARNING ACTIVITIES

5.1 Timetable

Asynchronous, Recorded Lectures:

Video lectures will be recorded and delivered asynchronously. In order to keep you on task, I will ensure that I organize these videos according to the week that I intend them to be viewed. It is your responsibility to watch these videos on your own time as this content will not be delivered in any other format. My suggestion is that you choose 3 hours per week within your own schedule and commit to always working on video lectures. Additional time should be scheduled for completing practice problems for MATH*1210 and reviewing concepts. This is especially important if you tend to be a procrastinator…I don't want you to fall behind so please set up some regular, disciplined MATH*1210 time. Depending on the concept, videos will vary in length (and therefore quantity) each week. For instance, it may take 5 shorter videos to effectively complete one week of material, while another week of material may be doable in just 2 slightly longer videos.

Synchronous Times

Tuesday	11:30 am – 12:50 pm
Thursday*	11:30 pm – 12:50 pm

In general, synchronous time on Tuesday's will be used to present additional problems or thoughts related to the current subject matter. Any additional time will be run as an "office hour" to help you with any questions or problems you've encountered in lecture videos or For You to Try problems. If you are feeling confident after watching the videos and doing practice problems, you need not feel that you have to attend this time slot, but you are always welcome to come and listen whether you are feeling good about the material or you have some questions.

*Synchronous time on Thursdays is set aside for completing assignments and term tests (except for in week 1 where we will use this time for review of integration techniques).

Tutorials/Labs:
Any content that would normally be delivered as a tutorial will be delivered either as part of the asynchronous lectures or will be presented in the Tuesday Synchronous lecture time slot.

Online Behaviour:
Inappropriate online behaviour will not be tolerated. Examples of inappropriate online behaviour include:
• Posting inflammatory messages about your instructor or fellow students
• Using obscene or offensive language online
• Disrupting a class/office hour by discussing entirely unrelated content to that of MATH*1210.
• Copying or presenting someone else's work as your own
• Adapting information from the Internet without using proper citations or references
• Buying or selling term papers or assignments
• Posting or selling course materials to course notes websites

• Having someone else complete your quiz or completing a quiz for/with another student
• Making false claims about lost quiz answers or other assignment submissions
• Threatening or harassing a student or instructor online
• Discriminating against fellow students, instructors or TAs
• Using the course website to promote profit-driven products or services
• Attempting to compromise the security or functionality of the learning management system
• Sharing your username and password
• Recording lectures without the permission of the instructor

Any student that does not conduct themselves in an appropriate manner in any online lecture or office hour session will be issued a penalty of a 0.5% deduction on their final grade. This will apply each time inappropriate online conduct occurs. Please be kind to each other and conduct yourself with maturity and professionalism.

5.2 Lecture Schedule

(schedule is approximate and subject to change depending on time constraints)

Lectures (Week)	Lecture Topics	References
1	Complex Numbers	Chapter 1
1-2	Inverse Functions	Chapter 1
3	Hyperbolic Functions	Chapter 2
4	L'Hôpital's Rule	Chapter 3
4-5	Advanced Integration Techniques	Chapter 4
6	The Method of Partial Fractions	Chapter 5
6-7	Improper Integrals	Chapter 6
7-8	Volumes of Revolution	Chapter 7
8-9	Arclength of a Curve and Parametric Equations	Chapter 8
10	Polar Coordinates	Chapter 9
11	Taylor & MacLaurin Series	Chapter 10
12	Introduction to Multivariable Functions	Chapter 11

5.3 Lab Schedule

Lab topics will correspond to weekly topics. Together we will practice the material covered in class as well as extend it to more interesting problems or perhaps just cover additional content in our course manual.

5.4 Other Important Dates

First day of classes: Monday, January 11th, 2021.
Reading Week: Monday, February 15th, 2021-Friday, February 19th, 2021. (no classes)
Good Friday: Friday, April 2nd, 2021. (no classes)
Last day of classes: Monday, April 12th, 2021.

Note that Monday, April 12th, 2021 runs as a Friday in lieu of Good Friday.

Drop Date: Courses that are one semester long must be dropped by the end of the last day of classes (**Monday, April 12th, 2021)**; two-semester courses must be dropped by the last day of the add period in the second semester. The regulations and procedures for Dropping Courses are available in the Undergraduate Calendar.
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml

Course Evaluation Information: Near the end of the term, you will be given the opportunity to evaluate your instructor and provide comments regarding your experience. The evaluations for this class will be done in-class. Your instructor will inform you of when these are to take place.

6 ACADEMIC MISCONDUCT

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it.

Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member.

6.1 Resources

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:
http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml

A tutorial on Academic Misconduct produced by the Learning Commons can be found at:
http://www.academicintegrity.uoguelph.ca/

7 ACCESSIBILITY

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required, however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance, and not later than the 40th Class Day.

More information: www.uoguelph.ca/sas

8 RECORDING OF MATERIALS

Presentations which are made in relation of course work – including lectures – cannot be recorded or copied without the permission of the presenter, whether the instructor, classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

Posted online videos and course notes are the property of the instructor and are not to be otherwise disseminated beyond this course.

9 RESOURCES

The Academic Calendars are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

http://www.uoguelph.ca/registrar/calendars/index.cfm?index