1. **Course:** MATH 205, Mathematical Explorations - Winter 2021

   **Lecture 01:** MWF 11:00 - 11:50 - Online

   **Instructor** | **Email** | **Phone** | **Office** | **Hours**
   --- | --- | --- | --- | ---
   Dr. Lauren DeDieu | lauren.dedieu@ucalgary.ca | 403 220-5056 | MS 528 | By appointment (via Zoom)

**Online Delivery Details:**

Some aspects of this course are being offered in real-time via scheduled meeting times. For those aspects you are required to be online at the same time.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor’s permission.

**Live Classes:**

The majority of the course content will be delivered via synchronous lectures on Zoom during the Registrar schedule class times (MWF 11-11:50am). A large portion of this class time will be dedicated to in-class activities; these in-class activities and the final Personal Reflection concerning these activities accounts for 25% of the final course grade (see Course Engagement below). As such, students are expected to attend and actively participate in live classes.

We understand that life happens and you may need to miss a few classes throughout the semester. We will “drop” approximately 10% of all in-class activities. See the "Grading" section below for more details.

If your personal situation this semester prevents you from attending all live classes, please email your instructor as soon as possible at the beginning of the semester to discuss possible accommodations.

Portions of our live lectures may be recorded to help accommodate students who are unable to attend.

**Tutorials:**

We will not be holding live tutorials during our Registrar scheduled WR tutorial times. However, our TA will be available during these scheduled times to provide one-on-one support via Zoom. We may also use these WR Registrar scheduled times in weeks when there are Presentations.

**Email Policy:**

All content and course-related questions should be posted to the D2L Discussion Boards. All questions of a personal nature (e.g. accommodations, missed assessments) should be emailed to your instructor. Questions and emails will normally be answered with 24 hours (except on weekends and holidays).

**Course Site:**

D2L: MATH 205 L01-(Winter 2021)-Mathematical Explorations

   **Note:** Students must use their U of C account for all course correspondence.

2. **Requisites:**

   See section 3.5.C in the Faculty of Science section of the online Calendar.

   **Prerequisite(s):**
   Mathematics 30-1, Mathematics 30-2, or Mathematics 2 (offered by Continuing Education).

   **Note(s):**
   - a. Not included in the Field of Mathematics.

3. **Grading:**
The University policy on grading and related matters is described in F.1 and F.2 of the online University Calendar.

In determining the overall grade in the course the following weights will be used:

<table>
<thead>
<tr>
<th>Component(s)</th>
<th>Weighting</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Engagement *</td>
<td>25%</td>
<td>In-Class Activities (15%, occur during Registrar scheduled times); Personal Reflection (10%, due Apr. 15th)</td>
</tr>
<tr>
<td>Homework (best 6 of 8)</td>
<td>25%</td>
<td>Jan. 18th, Jan. 25th, Feb. 1st, Feb. 8th, Mar. 1st, Mar. 8th, Mar. 22nd, Mar. 29th</td>
</tr>
<tr>
<td>Presentation</td>
<td>25%</td>
<td>Abstract (5%, due Jan. 29th); Presentation (20%, date will be assigned in Week #3. Presentations will occur during Registrar scheduled course times in Weeks 5, 8 and 11.)</td>
</tr>
<tr>
<td>Project</td>
<td>25%</td>
<td>Live &quot;Client Meeting&quot; will occur during Weeks 9-12. Due date to book Client Meeting is Mar. 12th. Project due Mar. 15th.</td>
</tr>
</tbody>
</table>

*In-class activities will have a point value associated to them. This point value may vary between activities. Not all live classes will have a graded activity. At the end of the semester, if the total point value for all in-class activities is x and a student earns y points, then their total score will be the minimum of 100y/(0.9x)% and 100%. In other words, we will "drop" 10% of the total points by making the denominator 10% smaller, and students cannot earn more than 100%. For example, if x=100 and y=85, the final score would be 100(85/90)% ~ 94.44%. If x=100 and y=95, then the final score would be 100%. These means that if you miss a class or two throughout the semester, your Course Engagement grade will not be impacted.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

<table>
<thead>
<tr>
<th></th>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum % Required</td>
<td>96 %</td>
<td>91 %</td>
<td>86 %</td>
<td>81 %</td>
<td>77 %</td>
<td>73 %</td>
<td>69 %</td>
<td>65 %</td>
<td>60 %</td>
<td>55 %</td>
</tr>
</tbody>
</table>

4. **Missed Components Of Term Work:**

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, then the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course.

**Course Engagement:** We will be "dropping" 10% of the in-class activity points so that students will not be penalized for missing a class or two throughout the semester. If you miss classes due to excusable absences (e.g. illness, family emergency) please keep track of these. At the end of the semester once the Course Engagement grade is posted, if the total number of points you missed due to excusable absences exceeds the total number of points "dropped", please contact your instructor. We will treat this on a case-by-case basis.

5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

6. **Course Materials:**

Students must be able to submit their homework as a single PDF file. Student may write their work on paper and photograph/scan their work, then convert it to a single PDF. Or, they may write their work on a tablet and save it as a single PDF file. Some resources that may help:

- Merge multiple photos or PDF files into a single PDF: [https://jpg2pdf.com/](https://jpg2pdf.com/)
- Take photos of work with iPhone / iPad: [https://tinyurl.com/tihhki3](https://tinyurl.com/tihhki3)
- Taking photos of work with Android: [https://tinyurl.com/v7cswh88](https://tinyurl.com/v7cswh88)

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:
- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC ELearning online website.

7. Examination Policy:

**Homework Answer Services:** You may NOT use homework answer services (e.g. Chegg.com) on any assessments. Posting and/or viewing solutions from such services is considered academic misconduct.

**Collaborating with Peers:** You may collaborate with your peers to discuss assessments. However, you must create your own good-copy of the assessment independently (or with your group members if it is a group project) and acknowledge any collaborators on the top-right-corner of the assessment. (e.g. for weekly homework, it’s okay to discuss the homework questions with your classmates. But after this discussion, you should write-up your own good-copy of the homework independently and at the top acknowledge who you talked to... for example, "I collaborated with John Smith on Q1, and collaborated with Jane Doe on Q2".)

**Referencing Sources:** On assessments, you must reference all sources (including images) using a consistent citation style, such as APA or MLA (for more info see [https://library.ucalgary.ca/guides/citations](https://library.ucalgary.ca/guides/citations)). Be sure that the work you submit is your own. In particular, be careful about paraphrasing. It is fine to use ideas from a source, but you need to include your own ideas and put things in your own words. A person is plagiarizing if they paraphrase too many words/phrases from a source (even if the source is cited). For example, it’s not okay to take entire paragraphs from another source and just change a few words around here or there. For more information, see [https://library.ucalgary.ca/c.php?g=676911&p=4779242](https://library.ucalgary.ca/c.php?g=676911&p=4779242). Note that the Student Success Centre offers one-on-one appointments for writing and referencing help: [https://www.ucalgary.ca/student-services/student-success](https://www.ucalgary.ca/student-services/student-success).

Students should also read the Calendar, Section G, on Examinations.

8. Approved Mandatory And Optional Course Supplemental Fees:

There are no mandatory or optional course supplemental fees for this course.

9. Writing Across The Curriculum Statement:

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section E.2 of the University Calendar.

10. Human Studies Statement:

Students will not participate as subjects or researchers in human studies.

See also Section E.5 of the University Calendar.

11. Reappraisal Of Grades:

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See Section I.3 of the University Calendar.

a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within ten business days of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections I.1 and I.2 of the University Calendar.

b. **Final Exam:** The student shall submit the request to Enrolment Services. See Section I.3 of the University Calendar.

12. Other Important Information For Students:
a. Mental Health: The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, Mental Health Services Website) and the Campus Mental Health Strategy website (Mental Health).

b. SU Wellness Services: For more information, see www.ucalgary.ca/wellnesscentre or call 403-210-9355.

c. Sexual Violence: The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email (svsa@ucalgary.ca) or phone at 403-220-2208. The complete University of Calgary policy on sexual violence can be viewed at [https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf](https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf).

d. Misconduct: Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional Code of Conduct and promote academic integrity in upholding the University of Calgary’s reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor’s consent; submitting or presenting work as if it were the student’s own work; submitting or presenting work in one course which has also been submitted in another course without the instructor’s permission; borrowing experimental values from others without the instructor’s approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

   Student Handbook on Academic Integrity
   Student Academic Misconduct Policy and Procedure
   Research Integrity Policy

Additional information is available on the Student Success Centre Academic Integrity page.

e. Academic Accommodation Policy: Students needing an accommodation because of a disability or medical condition should contact Student Accessibility Services in accordance with the procedure for accommodations for students with disabilities available at procedure-for-accommodations-for-students-with-disabilities.pdf.

   Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Associate Head of the Department of Mathematics & Statistics, Mark Bauer by email bauerm@ucalgary.ca or phone 403-220-4189. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than 14 days prior to the date in question. See Section E.4 of the University Calendar.

f. Freedom of Information and Privacy: This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see Legal Services website.

g. Student Union Information: VP Academic, Phone: 403-220-3911 Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: 403-220-3913 Email: scincerep@su.ucalgary.ca. Student Ombudsman, Email: ombuds@ucalgary.ca.

h. Surveys: At the University of Calgary, feedback through the Universal Student Ratings of Instruction (USRI) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.

i. Copyright of Course Materials: All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or non-academic misconduct, in addition to any other remedies.
available at law.

**Course Outcomes:**

- Consistently make accurate algebraic calculations - especially using fractions, exponents and logarithms.
- List a number of occurrences of mathematics being used to solve 'real world' problems
- Write detailed solutions to homework problems using proper mathematical grammar, such as sound expressions of mathematical equations
- Explain the meaning of those mathematical equations and other expressions which arise in the course.
- Participate in classroom demonstrations and discussions, and demonstrate proficiency in oral communications when discussing numeracy