

COURSE OUTLINE

1. Course: CMMB 451, Molecular Analysis of Biological Systems - Winter 2021

Coordinator(s)

Name	Email	Phone	Office	Hours
Dr Vanina Zaremberg	vzarembe@uca	algary.ca 403 220-4298	BI 390	TBA

Section(s)

Lecture 01: TR 11:00 - 12:15 in ST 135

Instructor	Email	Phone	Office	Hours
Dr. Marie Fraser	frasm@ucalgary.ca	403 220-6145	BI 413	Zoom meetings by appointment
Dr Steven Zimmerly	zimmerly@ucalgary.ca	403 220-7933	BI 319C	TBA
Dr Vanina Zaremberg	vzarembe@ucalgary.ca	403 220-4298	BI 390	TBA

In Person Delivery Details:

Wet laboratories, and Dr Fraser's lectures will be held in person.

Labs are T/R 2:00-7:50 pm (BI 132/136)

Note: safety is our priority and the tentative schedule may change depending on the circumstances.

Re-Entry Protocol for Labs and Classrooms:

To limit the spread of COVID-19 on campus, the University of Calgary has implemented an Instructional Space Re-Entry Protocol that must be followed. Details are found in the <u>Covid-19 Protocol for Class and Lab re-entry.pdf</u> document. **Online Delivery Details:**

This course is being offered online in real-time via scheduled meeting times, 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.

This course has a registrar scheduled, synchronous final exam. The writing time is 1 hours + 50% buffer time.

Drs Zimmerly and Zaremberg's lectures as well as computer labs to be held via Zoom will be offered in a synchronous manner. On line components will be recorded.

All office hours will be held online via Zoom.

Course Site:

D2L: CMMB 451 L01-(Winter 2021)-Molecular Analysis of Biological Systems

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

2. Requisites:

See section $\underline{\textbf{3.5.C}}$ in the Faculty of Science section of the online Calendar.

Prerequisite(s):

Cellular, Molecular and Microbial Biology 411 and admission to the Cellular, Molecular and Microbial Biology major or to the Biological Sciences Honours program.

Antirequisite(s):

Credit for Cellular, Molecular and Microbial Biology 451 and either Biochemistry 401 or 413 will not be allowed.

3. Grading:

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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:

Component(s)	Weighting %	Date
Midterm exam 1 (Synchronous)	15	March 11, 2021
Midterm exam 2 (Synchronous)	15	March 16, 2021
Final exam (Synchronous)	15	Registrar scheduled
Lab reports & assignments	55	TBA

Midterm/term test information

All midterm and final exams are online exams and synchronous.

Midterm exams 1 and 2 are synchronous exams that will be written during regular class time. They are designed to take 50 minutes to write and students will have an additional 25 minutes (for a total exam time of 75 minutes) to account for any technical issues.

Time will be adjusted for SAS students if needed and accommodations for students with issues (e.g., caregiving responsibilities, ability to secure an appropriate test-taking environment, different time zones) will be done on a case-by-case basis. Please contact the course coordinator (Dr Zaremberg) at least 14 business days prior to the synchronous assessment to discuss the matter.

The first midterm exam will be held on March 11 during your scheduled class time, and the second midterm March 16 during your scheduled class time.

This course has a registrar scheduled synchronous final exam. The writing time is one hour + 30 min buffer time.

Midterm and final exams are open book exams. You are permitted to use the course notes, and your personal notes. You are not permitted to search the internet, and all work must be individual.

If you have difficulties with your connection to D2L during the online exams, please contact the course coordinator by e-mail. If you are unable to e-mail, please phone the course coordinator.

IMPORTANT: It is the student's responsibility to ensure that they have adequate computer and internet access to write the exams. If a student encounters any technical issues in starting an exam, they MUST document the issue by taking a photo, screenshot, or video, and they must contact the course coordinator immediately so that either additional time can be provided to access the exam or alternative arrangements made. Students claiming such difficulties who do not contact the course coordinator providing evidence of technical difficulties within 15 minutes of the scheduled start of the exam will not be allowed to write the exam and will receive a grade of zero (0) on the exam. If a student's exam is suspended during the exam (lost internet connection, internet browser crashes etc.), they MUST provide evidence as outlined above and contact the course coordinator immediately. Students will then be granted re-entry to suspended exams if they began the exam on time, provided evidence of the suspension, and still have time remaining to complete their exam.

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.

	A +	A	A-	B+	В	B-	C+	С	C-	D+	D
Minimum % Required	92 %	86 %	82 %	78%	74%	70 %	66 %	62%	58%	54 %	50 %

This course will have a final exam that will be scheduled by the Registrar. The Final Examination Schedule will be published by the Registrar's Office approximately one month after the start of the term. The final exam for this course will be designed to be completed within 1 hours.

The final exam will be administered using an on-line platform. Per section of the online Academic Calendar, timed final exams administered using an on-line platform, such as D2L, will be available on the platform. Due to the scheduling of the final exams, the additional time will be added to **the end** of the registrar scheduled **synchronous** exam to support students. This way, your exam schedule accurately reflects the **start time** of the exam for any **synchronous** exams. E.g. If a **synchronous** exam is designed for 2 hours and the final exam is scheduled from 9-11am in your student centre, the additional time will be added to the **end** time of the **synchronous** exam. This means that if the exam has a 1 hour buffer time, a synchronous exam would start at 9 am and finish at 12pm. – **updated April 6, 2021**

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A mark of greater than or equal to 50% is required on the laboratory portion of this course (all components except the exams) to pass the course as a whole.

Lab reports are due one week after the lab.

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.

Online accommodations and/or assignments will be offered to those unable to attend a maximum of two (in person) lab components.

If missing more than two labs, arrangements to attend these labs during another term will be made 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:

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:

No aids are allowed on tests or examinations, unless otherwise indicated by the instructor.

Students should also read the Calendar, <u>Section G</u>, 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 $\underline{\text{E.2}}$ of the University Calendar.

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10. Human & Living Organism Studies Statements:

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

See also <u>Section E.5</u> of the University Calendar.

STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS. Students taking laboratory and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Undergraduate Program Director of the Department.

Students are expected to be familiar with <u>Section SC.4.1</u> 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 1.3 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 <u>I.1</u> and <u>I.2</u> of the University Calendar
- b. **Final Exam:**The student shall submit the request to Enrolment Services. See <u>Section 1.3</u> 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)
- 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

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Student Academic Misconduct <u>Policy</u> and <u>Procedure</u> 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 <u>procedure-for-accommodations-for-students-with-disabilities.pdf</u>.

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, Undergraduate of the Department of Biological Sciences, Heather Addy by email addy@ucalgary.ca or phone 403 220-6979. 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 <u>Legal Services</u> website.
- g. **Student Union Information:** <u>VP Academic</u>, Phone: <u>403-220-3911</u> Email: <u>suvpaca@ucalgary.ca</u>. SU Faculty Rep., Phone: <u>403-220-3913</u> Email: <u>sciencerep@su.ucalgary.ca</u>. <u>Student Ombudsman</u>, Email: <u>ombuds@ucalgary.ca</u>.
- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction (<u>USRI</u>) 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.

Electronically Approved - Apr 06 2021 16:48

Department Approval

Electronically Approved - Apr 07 2021 09:38

Associate Dean's Approval

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