



## COURSE OUTLINE

### 1. **Course:** SCIE 501, Project Course In Natural Science - Winter 2023

Lecture 01 : TR 14:00 - 15:15 in EDC 386

<b>Instructor</b>	<b>Email</b>	<b>Phone</b>	<b>Office</b>	<b>Hours</b>
Dr Bronwen Wheatley	bmmwheat@ucalgary.ca	403 220-8077	SA 144C	please e-mail

To account for any necessary transition to remote learning for the current semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for a certain period of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and/or requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

#### **In Person Delivery Details:**

Students are expected to be present for every lecture, and to spend lecture time working on SCIE 501 tasks. Students will perform some research via literature searches, and have the opportunity to perform some hands-on research if approved. The hands-on research might take place outside of class time, and if so, this will be discussed during lecture.

#### **Re-Entry Protocol for Labs and Classrooms:**

To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#).

#### **Course Site:**

D2L: SCIE 501 L01-(Winter 2023)-Project Course In Natural Science

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

#### **Equity Diversity & Inclusion:**

The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

### 2. **Requisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

#### **Prerequisite(s):**

75 units (12.5 full-course equivalents) and admission to the Natural Sciences program.

### 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:

Course Component	Weight	Due Date (duration for exams)	Modality for exams	Location for exams
Academic Integrity <sup>1</sup>	10%	Ongoing		
Safety <sup>2</sup>	10%	Ongoing		
In-Class Exercises <sup>3</sup>	10%	Ongoing		
Project Bids <sup>4</sup>	10%	Jan 27 2023		
Project Planning <sup>5</sup>	10%	Feb 10 2023		
Evidence of Progress <sup>6</sup>	10%	Mar 03 2023		
Report Draft <sup>7</sup>	10%	Mar 17 2023		
Presentation <sup>8</sup>	10%	Mar 28 2023		
Final Report <sup>9</sup>	10%	Apr 11 2023		
Registrar Scheduled Final Exam	10%	Will be available when the final exam schedule is released by the Registrar	in person	Will be available when the final exam schedule is released by the Registrar

<sup>1</sup> SCIE 501 will hold one initial individual academic integrity assignment, and at least two other assignments will be held as the course progresses. Notice will be given when work will be contributing towards the Academic Integrity component of the course.

<sup>2</sup> There will be at least two Safety assignments, and additional small pieces of Safety work will be seen throughout the course. Notice will be given when work will be contributing towards the Safety component of the course.

<sup>3</sup> During lecture time when evaluation of your work and/or your projects is underway, you will be asked to work on a number of small science problems.

<sup>4</sup> By January 27th at the latest, you should have submitted at least one project bid.

<sup>5</sup> By February 10th at the latest, you should have submitted at least one Plan for your project.

<sup>6</sup> By March 3rd at the latest, you should have submitted the evidence you have collected so far, so the progress of your project can be assessed.

<sup>7</sup> By March 17th at the latest, you should have submitted a rough draft of your research project report.

<sup>8</sup> As early as March 28th, you could be presenting your findings during lecture time to an audience of your fellow students and some invited guests.

<sup>9</sup> By April 11th at the latest, you should have submitted a final draft of your project report.

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+	B	B-	C+	C	C-	D+	D
<b>Minimum % Required</b>	92 %	88 %	84 %	80%	76%	72 %	68 %	64%	60%	56 %	50 %

This course will have a Registrar Scheduled Final exam that will be delivered in-person and on campus. [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 2 hours.

The University of Calgary offers a [flexible grade option](#), Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

#### 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, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

In order for your experience in the course to be optimal, attendance during lecture time is critical. Some decisions might be made on short notice and your attendance is necessary to make the most of updates in the course content and your project.

Valid reasons for missing lecture are generally illness or serious family afflictions. Official documentation for missing a class or tutorial, or for failing to submit work on time, is not required. Please contact your instructor in advance of missing a class/deadline, if possible, and include a brief note as to why you anticipate missing the class/deadline. Failing that, please contact your instructor within 48 hours of having missed a class/deadline with a brief note of why this occurred.

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

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

All students will complete a research project with a written component this semester; those with approval will have a hands-on component to their research project as well. This will require some out-of-lecture work on the part of all students, because in-lecture time will be spent on different case studies or other activities. Students should be prepared to devote non-lecture time to completing some SCIE 501 coursework, and should inform the instructor if the time spent on SCIE 501 starts to exceed 8 h / week.

#### 6. **Course Materials:**

Materials needed for the course will be approved and obtained by the instructor. If it becomes necessary for students to obtain the research materials, this will be agreed to by both the student(s) and the instructor.

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:**

The final exam will be open-resource except students may not contact anyone outside SCIE 501.

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 their [website](#) 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](mailto:svsa@ucalgary.ca)) or phone at [403-220-2208](#). The complete University of Calgary policy on sexual violence can be viewed [here](#).
- d. **Student Ombuds Office:** A safe place for all students of the University of Calgary to discuss student related issues, interpersonal conflict, academic and non-academic concerns, and many other problems.
- e. **Student Union Information:** [SU contact](#), Email your SU Science Reps: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca), [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca),
- f. **Academic Accommodation Policy:**

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the [Request for Academic Accommodation Form](#) and sending it to Dr. Nicole Sandblom by email [ntscdirector@ucalgary.ca](mailto:ntscdirector@ucalgary.ca) preferably 10 business days before the due date of an assessment or scheduled absence.

- g. **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](#)  
[Faculty of Science Academic Misconduct Process](#)  
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- h. **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.
- i. **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.
- j. **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.

#### **Course Outcomes:**

- By the end of the course, the students will be expected to be able to analyze and synthesize a large quantity of diverse information on a topic.
- By the end of the course, the students will be expected to be able to critically assess an existing body of scientific literature, evaluating its significance and identifying its limitations.
- By the end of the course, the students will be expected to be able to apply sound, analytical principles of research design to answer a scientific question.
- By the end of the course, the students will be expected to be able to develop clear and effective oral and written communications.
- By the end of the course, the students will be expected to be able to work effectively in teams.
- By the end of the course, the students will be expected to be able to provide constructive criticism to aid others in developing their research ideas.

Electronically Approved - Jan 06 2023 09:12

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#### **Department Approval**