

COURSE OUTLINE		
TERM: Fall 2020	COURSE NO: SCI 100	
INSTRUCTOR:	COURSE TITLE: Explorations in Science	
OFFICE: LOCAL: E-MAIL: @capilanou.ca	SECTION NO(S):	CREDITS 1.0
OFFICE HOURS:		
COURSE WEBSITE:		

Capilano University acknowledges with respect the Lil'wat, Musqueam, Squamish, Sechelt, and Tsleil-Waututh people on whose territories our campuses are located.

COURSE FORMAT

One hour of class time for a 15-week semester, which includes two weeks for final exams.

COURSE PREREQUISITES

None

CALENDAR DESCRIPTION

This course uses guest speakers, videos and field trips to provide students with an orientation to a career as an applied scientist with a focus on life sciences, clean technology and data science.

REQUIRED TEXTS AND/OR RESOURCES

None

COURSE STUDENT LEARNING OUTCOMES

On successful completion of this course, students will be able to do the following:

- Describe several science-based careers that are available in the Vancouver region
- Articulate potential career pathways for themselves
- Begin to develop a degree pathway that is related to their potential career pathways

COURSE CONTENT

The guest speakers will discuss topics that may include, but not be limited to the following:

Applied Science Topics	
Personalized Medicine	Data Visualization for Science Communication
Applications of Machine Learning	Microplastics in the Marine Food Chain

Applied Science Topics	
Sustainable Food Solutions	Sustainable Water & Wastewater Management
Sustainable Synthesis & Manufacturing	Smart Cities
Clean Power Generation	Energy Storage & Battery Technology
Green Chemistry	Carbon Capture
The Microbiome in Health and Disease	From Computational Neuroscience to Deep Learning Algorithms
Remote Sensing of the Environment	Regenerative Medicine

Note: The order and topic of presentations is dependent on the availability of guest speakers. Class schedules will be posted on the SCI 100 Moodle site and may be updated as late as the day before the scheduled class.

EVALUATION PROFILE

Final grades are reported as CR (Credit Granted) or NC (No Credit Granted). Attendance at scheduled activities is the only requirement to achieve credit for this course. Students who miss a lecture or a field trip without a valid excuse during the term will receive a NC grade. Students who are late for the assigned lectures on two or more occasions without a valid excuse during the term will also receive a NC grade.

GRADING PROFILE

Credit/No Credit

Incomplete Grades

Grades of Incomplete "I" will not be assigned in this course.

Late Assignments

There are no assignments in this course.

Attendance

Attendance at lectures and field trips is expected. Attendance will be taken at lectures and field trips. Falsifying the attendance record (i.e., by signing for another student) is a form of cheating and may result in a grade of NC for all parties involved.

English Usage

Students are expected to proofread all written work for any grammatical, spelling and stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

Electronic Devices

Students may use electronic devices during class for note-taking only.

On-line Communication

Outside of the classroom, instructors will (if necessary) communicate with students using either their official Capilano University email or Moodle; please check both regularly. Official communication between Capilano University and students is delivered to students' Capilano University email addresses only.

UNIVERSITY OPERATIONAL DETAILS**Tools for Success**

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <https://www.capilanou.ca/student-life/>

Capilano University Security: download the [CapU Mobile Safety App](#)

Policy Statement (S2009-06)

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

Academic Integrity (S2017-05)

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy and procedures S2017-05 Academic Integrity for more information: <https://www.capilanou.ca/about-capu/governance/policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

Academic dishonesty is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

Cheating: Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

Fraud: Creation or use of falsified documents.

Misuse or misrepresentation of sources: Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

Plagiarism: Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

Self-Plagiarism: Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

Prohibited Conduct: The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,
- Assisting or attempting to assist another person to commit any breach of academic integrity.

Sexual Violence and Misconduct

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including B.401 Sexual Violence and Misconduct Policy and B.401.1 Sexual Violence and Misconduct Procedure (found on Policy page <https://www.capilanou.ca/about-capu/governance/policies/>)

Emergencies: Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.