



CAPILANO UNIVERSITY

COURSE OUTLINE		
TERM: Spring 2024	COURSE NO: PHIL 320	
INSTRUCTOR:	COURSE TITLE: Philosophy of Science	
OFFICE: LOCAL: E-MAIL: @capilanou.ca	SECTION NO(S):	CREDITS: 3
OFFICE HOURS:		
COURSE WEBSITE: on eLearn		

Capilano University acknowledges with respect the Lil'wat7úl (Lil'wat), xʷməθkʷəy̓əm (Musqueam), shísháłh (Sechelt), Skwxwú7mesh (Squamish), and Səlílwətaʔ/Selilwitulh (Tseil-Wautuh) people on whose territories our campuses are located.

COURSE FORMAT

Three hours of class time, plus an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

COURSE PREREQUISITES

45 credits of 100-level or higher coursework

CALENDAR DESCRIPTION

This course is a general but comprehensive survey of the philosophical study of science and social implications of scientific understanding. It has the principle aim of addressing how we developed our scientific understanding of the world, what the understanding amounts to, what impacts it has on our understanding of ourselves and our place in the surrounding place, and what judgments might follow from this understanding.

COURSE NOTE

PHIL 102 recommended

REQUIRED TEXTS AND/OR RESOURCES

Jeffrey Foss. *Science and the World: Philosophical Approaches*. Peterborough, Ontario. Broadview Press. 2014.

- Additional readings are available via the eLearn site or through the Library.

COURSE STUDENT LEARNING OUTCOMES

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

- Describe the main developments in the philosophical understanding of science

- Identify and explain scientific methods and reasoning
- Explain the problems associated with achieving and recognising scientific progress
- Identify and explain some of the personal, social, moral, and political implications of science and scientific understanding
- Evaluate arguments given in support of the various positions taken
- Justify conclusions about the main philosophical issues in writing and debate/discussion.

COURSE CONTENT

Week 1	Introduction / History and Background
Week 2	Introduction: Scientific Reasoning, Method(s), and Models
Week 3	Induction, Causation, and Explanation
Week 4	Confirmation and Falsification
Week 5-6	Science and Pseudoscience
Week 7-8	Paradigms, Revolutions, and Progress
Week 9	Feminist Philosophy of Science
Week 10	Science and Religion
Week 11	Science and Meaning of Life
Week 12	Science and Ethics
Week 13	Science and Ethics
Week 14-15	Final Exam Period

EVALUATION PROFILE

The final grade for the course usually will be made up of a small attendance mark, mid-term and final tests, and written assignments. Details will be available on specific course syllabi.

Class participation/contribution	0 - 10%
Written Assignments	15 - 40%*
Test(s)	20 - 45%*
Final Exam	<u>20 - 30%</u>
	100%

*No individual assessment will exceed 35%.

COURSE ASSESSMENTS

The discussion contribution/participation mark will be awarded based on attendance and making contributions to discussions. The mid-tests will not be cumulative. The final test will be scheduled in the exam period. Instructions for the Research Paper are available on the eLearn site.

GRADING PROFILE

A+ = 90-100	B+ = 77-79	C+ = 67-69	D = 50-59
A = 85-89	B = 73-76	C = 63-66	F = 0-49
A- = 80-84	B- = 70-72	C- = 60-62	

Incomplete Grades

Incomplete grades will be given at the discretion of the instructor and normally only in medical emergencies or severe personal crises. If given, a minimum of 50% of assessed work must be completed before the final class.

Late Assignments

Assignments are due at the beginning of the class on the due date specified by the instructor. If you anticipate handing in an assignment late, consult with your instructor beforehand. Late assignments are penalized 5% per day or part of a day that they are late. Unless otherwise pre-arranged, no work will be accepted after the last day of regular classes.

Missed Exams/Quizzes/Labs etc.

Students will be assigned a mark of zero for all missed tests and assignments. Make-up exams, quizzes and/or tests are given at the discretion of the instructor and only if advance notice is given. They are generally given only in medical emergencies or severe personal crises. Please consult with your instructor.

Attendance

Students are expected to attend regularly, to be punctual, to be well prepared to contribute to discussions, and to behave appropriately in class environments.

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 eLearn; 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-services/>

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.

DEPARTMENTAL OPERATIONAL DETAILS

In this course, the minimum penalty for (intentional) plagiarism or cheating will be a grade of zero on the examination or assignment.

Integrity in a Remote Learning Context

The policies regarding Academic Integrity remain the same in a remote learning context. If you have questions about what may or may not be permitted, please ask your instructor. It is important to review your instructor's policies regarding online exams and to follow this carefully and completely.