Instructor: Christian Pasiak
Office: Loeb A736
Office Hours: Mondays and Wednesdays 4:45-5:45pm
          Tuesdays, 11:45am-12:45pm, or by appointment
Office Phone: 613-520-2600 x3785 (voicemail retrieved during office hours)
Email: christian.pasiak@carleton.ca

TA: TBA (email information will be posted on CULearn once finalized)

Lecture/class meets: Wednesdays, 6:05-8:55pm
          Southam Hall, Room 502

Pre-requisites:
SOCI 1001 and SOCI 1002, or SOCI 1003 [1.0], or ANTH 1001, or ANTH 1002, and
third-year standing.

Course Description and Objectives:

How do the activities of scientists influence culture and social organization? How do
cultural goals affect scientific production/productivity? How do public understandings of
science influence the role scientific experts play in political decision-making practices?
How is science distinguished from non-science, ‘good’ science from ‘bad’ science? How
can sociological and anthropological methods help us to identify and better understand
the ways scientific techniques, technologies, and knowledge production intervene in
culture and society?

This course will introduce students to the interdisciplinary field of Science and
Technology Studies (STS) and the principal theories and methods used by STS scholars
to examine the construction of scientific knowledge. Students will have opportunities to
extend their critical-analytical reasoning and communication skills by applying these
methods to the study of scientific controversies across cultural locations. Topics to be
explored via case studies will include the demarcation of science from non-science (e.g.
the emergence and development of scientific facts), how demarcations between nature
and culture influence social organization, the relationship between experts and laypersons,
and how scientific and medical technologies intervene in the ways we see ourselves, others (including non-humans), and the natural environment.
Readings/Textbook:

There is no required textbook for this course, however, there are required weekly readings (e.g. book chapters, reviews, articles) that will be available on cuLearn via Ares/the MacOdrum Library licensing system and/or that will be placed on reserve in the library (refer to weekly outline of classes below to review the schedule of required readings).

Course Requirements & Methods of Evaluation:

**PARTICIPATION (IN CLASS AND ONLINE DISCUSSION): 5%**  
**MIDTERM EXAM: 25%**  
**GROUP PRESENTATION: 10%**  
**RESEARCH ESSAY: 35%**  
**FINAL EXAM: 25%**

**PARTICIPATION 5% (EVALUATED IN CLASS AND ONLINE)**
Throughout the term, with an emphasis on evaluation in the first half of the course preceding the midterm (during which we will review the main theories and methods in science and technology studies), students will be expected to ask questions, critically engage concepts and themes, and will be encouraged to apply them in examples, individually and in small group discussion. Students may also contribute to discussion of course themes via cuLearn. Actively-engaged participants will receive credit from the instructor for their contributions. Further details regarding the evaluation schema for participation will be provided in the first week of class.

**Due dates:** evaluated throughout the term, based on regular participation and thoughtful, active engagement.

**IN-CLASS MIDTERM EXAM 25%**
Students will have two hours to write the midterm exam. Questions will test students’ knowledge of lecture and reading material presented in the first half of the course. The midterm will be composed of short-answer and essay questions.

**Exam date:** Wednesday, October 17, 2018.

**GROUP PRESENTATION 10%**
Following the midterm, students will be given the opportunity to collaborate with peers in small groups (e.g. of 2-3 students, actual size contingent on enrollment) to apply relevant methods and themes to a case study that showcases a scientific or associated cultural controversy of their choosing. Students will be expected to engage actively with the concepts and literature, going beyond an explanation of the material, and taking a position on its applicability and/or shortcomings in helping to examine/better understand or appreciate the scientific controversy. In 10 to 15-minute in-class presentations, each group will outline a case study (the scientific or cultural controversy), the concepts/contributors used to analyze it, and (the principles informing) the students’ own evaluation of these methods. Further instructions for this assignment will be available on cuLearn and provided in class.
Due dates: evaluated throughout the second half of term, with organization of groups and scheduling taking place within the first few weeks of the term.

**Research Essay 35%**
The research essay will allow students opportunity for in-depth, independent exploration of topics and themes related to science and technology studies – either by critically engaging theoretical approaches/conceptual models and/or applying concepts to current, real-world issues. Students will use scholarly, peer-reviewed research to develop and support an argument based on sociological or anthropological themes. Papers should be 8-10 pages in length (double-spaced), plus bibliographic references. Detailed instructions on expectations for formatting and content, as well as how to upload your paper electronically via cuLearn will be provided in class and posted online. Evaluation will be based on a rubric that includes categories such as strength of argument, quality of research, grammar, writing style, and correct formatting. Students must submit an original piece of work that has not been submitted in any other course at Carleton University or elsewhere.

**Due date:** Thursday, November 22, 2018.

**Final Exam 25%**
Students will have two hours to write the final exam. The final exam will not be cumulative; emphasis will be on the latter portion of the course, though it may cover some themes and concepts that persisted throughout the term. Like the midterm, it will be composed of short-answer and essay questions. The final exam will take place during the formally scheduled examination period for Fall term classes (December 9-21). The date and time will be announced once the university releases the schedule October 5. Any deferred exam requests must be made through the Registrar’s Office.

**Class Schedule and Important Reminders:**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPICS</th>
<th>REQUIRED READINGS</th>
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<tbody>
<tr>
<td>Wednesday, September</td>
<td>Introduction to Science and Technology Studies, Overview of the Course,</td>
<td>Review the syllabus; the most up-to-date version will be posted on cuLearn</td>
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<td>5</td>
<td>Assignments, and Methods of Evaluation</td>
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<tr>
<td>Wednesday, September</td>
<td>The “Weak” vs. the “Strong” Programme: From Sociology of Science to the</td>
<td>Cetina, Karin Knorr. 1991. &quot;Merton's Sociology of Science: The First and the Last</td>
</tr>
<tr>
<td>Date</td>
<td>Topic</td>
<td>Reading</td>
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<tr>
<td>Wednesday, October 17</td>
<td><strong>MIDTERM EXAM</strong> (held in class; no lecture to follow)</td>
<td>No additional readings (review the material from the first six lectures and corresponding readings, and the midterm review slides, working through study questions that will be provided the weekend before the midterm test)</td>
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<td><strong>FALL BREAK (Oct. 22-26): NO CLASSES OR ASSIGNED READINGS</strong></td>
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<tr>
<td>Wednesday, October 31</td>
<td>Independent Group Workshops and Meetings</td>
<td>No assigned readings; this session will allow an extended opportunity for students to meet in their groups to prepare for upcoming presentations</td>
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</table>
Course material is subject to minor changes at the instructor’s discretion. Refer to CU Learn for the most up-to-date version of the syllabus.

*Please be advised that throughout the course we will address a broad range of issues, and particularly while discussing social inequality and exclusion, we may touch on topics sensitive to students. While efforts are made to approach these topics in a respectful manner, it is strongly advised that students who feel they may have potential concerns communicate these to the instructor in advance. Completing the assigned readings and reviewing lecture slides posted before each class should give students a sense of what to anticipate.

**ADDITIONAL POLICIES:**

*Use of Electronics in the Classroom:*
Please ensure that your devices are on silent mode before entering the lecture hall. Use of electronic devices (e.g. laptops and tablets) is permitted for note-taking and as an educational resource to enhance the learning experience. However, disruptions resulting from the misuse of electronics (e.g. web surfing, playing games, watching videos, texting, listening to music) may distract other students who are situated near you from focusing
on lecture content. Such use may result in you being asked to remove yourself from the classroom. It is recommended that laptop users seat themselves in the outer perimeters of the room to reduce the risk of disruptions (and more likely access to outlets). Recording devices are not permitted per university policy.

**Emails:**
Please feel welcome to contact the instructor with any questions pertaining to the course content, including assignments, policies, or lecture material. I try to respond to all emails within **two business days**. Please make sure to read the syllabus in case it already holds the answer to your question.

**Submitting Assignments:**
PLEASE NOTE: **All assignments for this course should be submitted online via cuLearn.** Instructions for assignments are posted on cuLearn. Please be aware that .pages format files are not compatible with the Microsoft software standard used across campus, so it is important to save all documents in formats such as .docx, .pdf, .odt or .rtf files to ensure that all submissions can be read. As per Carleton University policy, **students must retain a hard copy of all work submitted**, though it is strongly advised that students continuously save electronic versions of work at all stages of completion in multiple places (e.g. desktop, flash drive, online storage, email) to avoid losing material.

**Receiving Graded Assignments:**
We will attempt to have grades for online assignments available ten business days after the date of submission. Final grades will be available within two weeks of the final exam. Exams will not be returned to students, but appointments can be made with the instructor to review them before the end of term. They will be stored securely in the department for one year before being shredded confidentially.

**Late Assignment Policy:**
In fairness to students who submit assignments on time, assignments submitted after the due date will be subject to a penalty of 3% per day, including weekends and holidays, and will only be accepted up to seven days after the assignment is due. Extensions may be granted in certain circumstances, though circumstances should be discussed with the instructor well in advance of the due date, barring emergency. Documentation may be required. Late assignments that are accompanied by a medical certificate (specifying relevant dates affected) will be exempted from late penalties. Please discuss any medical extensions with the instructor as soon as possible after the condition arises. Appeals to defer the final exam must be made through the Registrar’s Office.

**Grade Review Policy:**
For the grader to consider an appeal by the student, the following steps **must** first be taken:

1) Wait 24 hours before contacting the person who graded your assignment (either the teaching assistant or instructor). Students should first reflect on the comments and feedback provided.
2) Provide a written explanation of concrete reasons why you believe the grade should be altered by email. In your justification, you must make specific reference to the assignment guidelines and respond directly to the feedback you were given.

3) Grade appeals cannot be made later than one week after grades are released.

4) If a student and TA cannot reach a satisfactory resolution, the instructor will mediate.

All grades are subject to the Dean’s approval.

In accordance with the Carleton University Undergraduate Calendar Regulations, the letter grades assigned in this course will have the following percentage equivalents:

- A+ = 90-100
- A  = 85-89
- A - = 80-84
- B+ = 77-79
- B  = 73-76
- B - = 70-72
- C+ = 67-69
- C  = 63-66
- C - = 60-62
- D+ = 57-59
- D  = 53-56
- D - = 50-52
- F = Below 50
- WDN = Withdrawn from the course
- DEF = Deferred (See above)

Academic Regulations, Accommodations, Plagiarism, Etc.

University rules regarding registration, withdrawal, appealing marks, and most anything else you might need to know can be found on the university’s website, here: [http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/](http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/)

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

Academic Accommodations for Students with Disabilities

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable).

*The deadline for contacting the Paul Menton Centre regarding accommodation for final exams for the Fall 2018 (December) exam period is **November 9, 2018**. The deadline for contacting the Paul Menton Centre regarding accommodation for final exams for the Winter 2019 (April) exam period is **March 15, 2019**.

For Religious Obligations:

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: [www.carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-](www.carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-).
For Pregnancy:
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website:

For Survivors of Sexual Violence
As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit:
www.carleton.ca/sexual-violence-support

Accommodation for Student Activities
Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist.

Plagiarism
Plagiarism is the passing off of someone else's work as your own and is a serious academic offence. For the details of what constitutes plagiarism, the potential penalties and the procedures refer to the section on Instructional Offences in the Undergraduate Calendar. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy (See https://carleton.ca/registrar/academic-integrity/). The Policy is strictly enforced and is binding on all students. Academic dishonesty in any form will not be tolerated. Students who infringe the Policy may be subject to one of several penalties.

What are the Penalties for Plagiarism?
A student found to have plagiarized an assignment may be subject to one of several penalties including but not limited to: a grade of zero, a failure or a reduced grade for the piece of academic work; reduction of final grade in the course; completion of a remediation process; resubmission of academic work; withdrawal from course(s); suspension from a program of study; a letter of reprimand.

What are the Procedures?
All allegations of plagiarism are reported to the faculty of Dean of FASS and Management. Documentation is prepared by instructors and departmental chairs. The
Dean writes to the student and the University Ombudsperson about the alleged plagiarism. The Dean reviews the allegation. If it is not resolved at this level then it is referred to a tribunal appointed by the Senate.

**Assistance for Students:**
Academic and Career Development Services: [http://carleton.ca/sacds/](http://carleton.ca/sacds/)
Writing Services: [http://www.carleton.ca/csas/writing-services/](http://www.carleton.ca/csas/writing-services/)
Peer Assisted Study Sessions (PASS): [https://carleton.ca/csas/group-support/pass/](https://carleton.ca/csas/group-support/pass/)

**Important Information:**
- Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).
- Students must always retain a hard copy of all work that is submitted.
- Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean.
- Carleton University is committed to protecting the privacy of those who study or work here (currently and formerly). To that end, Carleton’s Privacy Office seeks to encourage the implementation of the privacy provisions of Ontario’s *Freedom of Information and Protection of Privacy Act* (FIPPA) within the university.
- In accordance with FIPPA, please ensure all communication with staff/faculty is via your Carleton email account. To get your Carleton Email you will need to activate your MyCarletonOne account through Carleton Central. Once you have activated your MyCarletonOne account, log into the MyCarleton Portal.
- Please note that you will be able to link your MyCarletonOne account to other non-MyCarletonOne accounts and receive emails from us. However, for us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid MyCarletonOne address. Therefore, it would be easier to respond to your inquiries if you would send all email from your connect account. If you do not have or have yet to activate this account, you may wish to do so by visiting [https://students.carleton.ca/](https://students.carleton.ca/)

**Important Dates**

**Fall 2018**

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<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 29</td>
<td>All Fall term syllabi must be posted</td>
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<tr>
<td>September 3</td>
<td>Labour Day – University Closed.</td>
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<tr>
<td>September 5</td>
<td>Classes start.</td>
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<tr>
<td>September 14-16</td>
<td>Summer term deferred examinations will be written.</td>
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<tr>
<td>September 19</td>
<td>Last day for registration and course changes in Fall and Fall/Winter courses.</td>
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<tr>
<td>September 30</td>
<td>Last day to withdraw from fall term and fall/winter courses with a full fee adjustment. Withdrawals after this date will result in a permanent notation of WDN to appear on the official transcript.</td>
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</table>
October 5  December exam schedule available online.
October 8  Thanksgiving Day – University closed.
October 22-26  Fall break, no classes.
November 23  Last day for summative tests or final examinations, or formative tests or examinations totaling more than 15% of the final grade in Fall term courses before the official examination period.
December 7  Classes follow a Monday schedule.
            Fall term ends. Last day of classes. Last day for academic withdrawal from Fall term courses. Last day for take-home examinations to be assigned (except those that conform to the Academic Regulations of the University in the Undergraduate Calendar/General Regulations of the Graduate Calendar). Last day for handing in term work and the last day that can be specified by a course instructor as a due date for Fall term courses.
December 9-21  December exams: Final examinations for Fall courses, mid-terms for Fall/Winter courses. Exams are normally held all seven days of the week.
December 21  All take-home exams are due except those that conform to the Academic Regulations of the University in the Undergraduate Calendar/General Regulations of the Graduate Calendar.
December 24  All Winter term syllabi must be posted
December 25 -January 1  University closed