

**Faculty of Science Course Syllabus (revised June 2018)**
**Department of Biology**
**BIOL/ENVS 4001 Environmental Impact Assessment Fall 2019**

**Instructor(s):** Patricia Lane e-mail: [patricia.lane@dal.ca](mailto:patricia.lane@dal.ca) Office Location: Biology 5130

**TAs:** Emily Bibeau, Kyle Doucette, Alex Johnston

**Lectures:** Tuesdays, 11:35 AM - 1:25 PM in Life Sciences Center, Common Area Room C236

**Tutorials:** Tuesdays, 1:35 - 2:25 PM In Rooms C206, C234, C244

**Course Description**

This course serves as the capstone to the EIA certificate. It is a hands-on training course that guides students through a nine-step framework for preparing individual EIAs on a physical project as well as a Strategic Environmental Assessment on a policy. International, national, provincial examples illustrate the framework.

**Course Prerequisites**

ENVS 1100.03 and 1200.03 (or ENVS 1000X/Y.06) or BIOL 2060.03 (or BIOA 3001.03) or EARTH 2410.03 or GEOG 2100X/Y.06 or GEOG 2201.03 or GEOG 2202.03 or INTD 2001.03 or INTD 2002.03 or OCEA 2000X/Y.06 (or OCEA 2001.03 and OCEA 2002.03) or SUST 2000.06 or SUST 2001.06

CROSS-LISTING: ENVS 4001.03

RESTRICTIONS: E1, E2, & E3. This course is open to all students with the necessary prerequisites.

**Course Materials:**

Required Textbook: Bram Noble-Introduction to Environmental Impact Assessment, (3<sup>rd</sup> Ed.) 2015 plus Journal Papers, Website Visits, and Course Website on Brightspace. A tutorial book will be provided.

**Course Assessment:**

Component	Weight (% of final grade)	Date Due
Assignment 1	25	October 2, 2018
Assignment 2	25	November 6, 2018
Test 1 (in class-lecture period)	20	October 30, 2018
Test 2 (take-home on SEA)	20	November 27, 2018
Tutorial Book	10	October 23, 2018
	100	

Conversion of numerical grades to Final Letter Grades follows the [Dalhousie Common Grade Scale](#)

<b>A+</b> (90-100)	<b>B+</b> (77-79)	<b>C+</b> (65-69)	<b>D</b> (50-54)
<b>A</b> (85-89)	<b>B</b> (73-76)	<b>C</b> (60-64)	<b>F</b> (<50)
<b>A-</b> (80-84)	<b>B-</b> (70-72)	<b>C-</b> (55-59)	

You will not receive a letter grade lower than what is indicated for your final point value listed above, although the professor reserves the right to give a higher grade. Because the scale is generous for A's and B's (30 points) as compared to C's and D's (20 points), individual marks will only be rounded up if the student has more than 0.50 above the maximum value for a particular letter grade. For example, if you received 79.51 points, you would receive an A in the class and not a B+. If you received 79.49 points, you would receive a B+ and not a A-.

**Course Policies** (See also university policies and websites on last page of this syllabus.)

### **Absences**

Use the Student Declaration of Absence form for missed academic requirements in this course, if you are ill for more than 3 consecutive days (not 3 class days) as per university policy. A submission site for your declaration is given on the class website. Two submissions are permitted per term. The possibility of making up late work is at the discretion of the professor. For longer illnesses, you will need a medical excuse and meeting with the professor.

### **Individual Work**

All work in this class is to be done individually except the in-tutorial discussions. Your tutorial book submission should be your own individual work. Do not collaborate on assignments or tests.

### **Late Assignments and Extensions:**

Any material submitted for evaluation after the designated deadline will have marks deducted at the rate of 10% per day late including weekends. Extensions without the mark penalty will be given only with a valid medical or other excuse as approved by the professor. If you file a student declaration for a short-term absence from class, you need to follow-up with Dr. Lane on how the missing work will be treated. Missing Test 1 is a serious problem and you must inform Dr. Lane why you will not take the test no later than 9 pm on the night before the test. Failure to do this could result in you not having the opportunity for a retest. (Note: Take home test 2 must be submitted on time on November 27 and no excuse will be accepted for lateness.)

### **Marking:**

Although assignments will have a detailed point distribution for marking, the Teaching Assistant has discretionary power to deduct additional points (up to 10%) for overall sloppy writing, poor grammar and spelling, messy format, inadequate referencing, and overall inferior quality of the assignment. All assignments are to be typed and spell & grammar-checked before submission. The final grade that you receive in a class is the sum total of the work that you did and the knowledge that you gained. A grade is something that you earn. If you require a final grade at a particular level for an honours degree, job, graduate or professional school, or other purpose, you should ensure that you put the time and effort in during the term to earn that grade. The Professor is willing to give you extra help and study assignments if you believe that you are not



achieving a satisfactory level of proficiency in the class. Please do not come at the end of the term requesting a higher grade because you need it to fulfil a requirement, enter graduate school, you worked hard, or because you paid your tuition. These are not satisfactory reasons. It is unfair to the other students in the class who have done the work, and to the university, which has to maintain fair and high standards of academic achievement.

**Office Hours:**

Room 5130 T and R 10:30-11:15, other times by appointment

**Plagiarism**

Plagiarism software (Urkund) will be used in this course for the assignments and Test 2. On the day your assignment or test is due, you need to submit a paper copy in class and an electronic and identical version on-line at the class website by midnight of the same day. All instances of suspected plagiarism will be reported promptly to the Academic Integrity Officer of the Faculty of Science.

**Use of Electronic Equipment in Class:**

The use of cell phones, both calls and texts, during class is strictly forbidden. Cellphones and other communication devices should be set to vibrate during class. No electronic devices are allowed during the midterm test when they need to be placed at the front of the room.

**Seating**

Please sit in the first five rows of the classroom.

**BIOL/ENVS 4001 Environmental Impact Assessment 2019 CLASS SCHEDULE**

Week	Tuesdays	PART 1 PROJECT EIA	Assignments
1 Sept 3	LECTURE 1	A. Introduction to EIA B. EIA Federal Law	NOBLE: Chapters 1, 2 Reading 1
	TUTORIAL 1	Introduction to Project Assessment	Website Visit No. 1
2 Sept 10	LECTURE 2	A. Project Description B. Scoping and Public Participation	NOBLE: Chapter 10 Reading 2
	TUTORIAL 2	Inclusion/Exclusion Lists	Website Visit No.2
3 Sept 17	LECTURE 3	A. Description of Physical Environment B. Watershed Dynamics	NOBLE: Chapter 4 Reading 3
	TUTORIAL 3	Selecting Physical VECs	Website Visit No. 3
4 Sept 24	LECTURE 4	A. Description of Biological Environment B. Social Impact Assessment	NOBLE: Chapter 5 Reading 4
	TUTORIAL 4	Selecting Biological & Social VECs	Website Visit No. 4
5 Oct 1	LECTURE 5	A. Environmental Baseline & Bounding B. Assessing Impacts-Methods	NOBLE: Chapter 3, 6 Reading 5
	TUTORIAL 5	Bounding & Impact Identification	Website Visit No. 5 ASSIGNMENT NO. 1 DUE
6 Oct 8	LECTURE 6	A. Assessing Risks-Methods B. Cumulative Effects Assessment	NOBLE: Chapters 8, 11 Reading 6A and 6B
	TUTORIAL 6	Ranking Risks Exercise and CEs	Website Visit No. 6
7 Oct 15	LECTURE 7	A. Environmental Management Plan	NOBLE: Chapter 7, 9 Reading 7
	TUTORIAL 7	Environmental Management Plan	Website Visit No. 7
8 Oct 22	LECTURE 8	A.-B. Engineering Aspects of EMP Guest Lect.: Bruce Adamson, B.Eng., M.Eng	NOBLE: Chapters 13, 14 Reading 8 No new tutorial but meet to finalize booklet
	TUTORIAL 8	Finish Tutorial Booklet	SUBMIT TUT. BOOKLET
9 Oct 29	TEST 1	Test 1 in class– 2 hours	STUDY FOR TEST 1
<b>PART II. STRATEGIC ENVIRONMENTAL ASSESSMENT (SEA)</b>			
10 Nov 5	LECTURE 10	A. Introduction to Strategic EA. B. Setting the SEA context-ID alternatives C. Distribute Test 2: SEA of a Policy	NOBLE: Chapter 12 Reading10/Website Visit No. 10
	TUTORIAL 10	SEA for a Policy (will receive in tutorial)	ASSIGNMENT NO. 2 DUE
<b>STUDY BREAK You Can Turn in Assignment 2 In Class on Nov 19 Without Penalty</b>			
11 Nov 19	LECTURE 11	A. Guest Lectures B. Dr. Lane will answer questions on Test 2	NO TUTORIAL TODAY
12 Nov 26	NO LECTURE TODAY/MUST SIGN INTO TUTORIAL at 3:30 pm as per TA'S instructions SUBMIT TEST 2 SEA DUE AT BEGINNING OF TUTORIAL- NO LATE SUBMISSIONS ACCEPTED		

## Faculty of Science Course Syllabus (Section B) (revised June-2018)

### BIOL 3061 Communities and Ecosystems (Fall 2018)

#### University Policies and Statements

**This course is governed by the academic rules and regulations set forth in the University Calendar and by Senate**

#### Academic Integrity

At Dalhousie University, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility and respect (The Center for Academic Integrity, Duke University, 1999). As a student, you are required to demonstrate these values in all of the work you do. The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity.

**Information:** [https://www.dal.ca/dept/university\\_secretariat/academic-integrity.html](https://www.dal.ca/dept/university_secretariat/academic-integrity.html)

#### Accessibility

The Advising and Access Services Centre is Dalhousie's centre of expertise for student accessibility and accommodation. The advising team works with students who request accommodation as a result of a disability, religious obligation, or any barrier related to any other characteristic protected under Human Rights legislation (Canada and Nova Scotia).

**Information:** [https://www.dal.ca/campus\\_life/academic-support/accessibility.html](https://www.dal.ca/campus_life/academic-support/accessibility.html)

#### Student Code of Conduct

Everyone at Dalhousie is expected to treat others with dignity and respect. The Code of Student Conduct allows Dalhousie to take disciplinary action if students don't follow this community expectation. When appropriate, violations of the code can be resolved in a reasonable and informal manner—perhaps through a restorative justice process. If an informal resolution can't be reached, or would be inappropriate, procedures exist for formal dispute resolution.

**Code:** [https://www.dal.ca/dept/university\\_secretariat/policies/student-life/code-of-student-conduct.html](https://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html)

#### Diversity and Inclusion – Culture of Respect

Every person at Dalhousie has a right to be respected and safe. We believe inclusiveness is fundamental to education. We stand for equality. Dalhousie is strengthened in our diversity. We are a respectful and inclusive community. We are committed to being a place where everyone feels welcome and supported, which is why our Strategic Direction prioritizes fostering a culture of diversity and inclusiveness

**Statement:** <http://www.dal.ca/cultureofrespect.html>

#### Recognition of Mi'kmaq Territory

Dalhousie University would like to acknowledge that the University is on Traditional Mi'kmaq Territory. The Elders in Residence program provides students with access to First Nations elders for guidance, counsel and support. Visit or e-mail the Indigenous Student Centre (1321 Edward St) ([elders@dal.ca](mailto:elders@dal.ca)).

**Information:** [https://www.dal.ca/campus\\_life/communities/indigenous.html](https://www.dal.ca/campus_life/communities/indigenous.html)

#### Important Dates in the Academic Year (including add/drop dates)

[https://www.dal.ca/academics/important\\_dates.html](https://www.dal.ca/academics/important_dates.html)

#### University Grading Practices

[https://www.dal.ca/dept/university\\_secretariat/policies/academic/grading-practices-policy.html](https://www.dal.ca/dept/university_secretariat/policies/academic/grading-practices-policy.html)

#### Missed or Late Academic Requirements due to Student Absence (policy)

[https://www.dal.ca/dept/university\\_secretariat/policies/academic/missed-or-late-academic-requirements-due-to-student-absence.html](https://www.dal.ca/dept/university_secretariat/policies/academic/missed-or-late-academic-requirements-due-to-student-absence.html)

## Student Resources and Support

### Advising

**General Advising** [https://www.dal.ca/campus\\_life/academic-support/advising.html](https://www.dal.ca/campus_life/academic-support/advising.html)

**Science Program Advisors:** <https://www.dal.ca/faculty/science/current-students/academic-advising.html>

**Indigenous Student Centre:** [https://www.dal.ca/campus\\_life/communities/indigenous.html](https://www.dal.ca/campus_life/communities/indigenous.html)

**Black Students Advising Centre:** [https://www.dal.ca/campus\\_life/communities/black-student-advising.html](https://www.dal.ca/campus_life/communities/black-student-advising.html)

**International Centre:** [https://www.dal.ca/campus\\_life/international-centre/current-students.html](https://www.dal.ca/campus_life/international-centre/current-students.html)

### Academic supports

**Library:** <https://libraries.dal.ca/>

**Writing Centre:** [https://www.dal.ca/campus\\_life/academic-support/writing-and-study-skills.html](https://www.dal.ca/campus_life/academic-support/writing-and-study-skills.html)

**Studying for Success:** [https://www.dal.ca/campus\\_life/academic-support/study-skills-and-tutoring.html](https://www.dal.ca/campus_life/academic-support/study-skills-and-tutoring.html)

**Copyright Office:** <https://libraries.dal.ca/services/copyright-office.html>

**Fair Dealing Guidelines** <https://libraries.dal.ca/services/copyright-office/fair-dealing.html>

### Other supports and services

**Student Health & Wellness Centre:** [https://www.dal.ca/campus\\_life/health-and-wellness/services-support/student-health-and-wellness.html](https://www.dal.ca/campus_life/health-and-wellness/services-support/student-health-and-wellness.html)

**Student Advocacy:** <https://dsu.ca/dsas>

**Ombudsperson:** [https://www.dal.ca/campus\\_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html](https://www.dal.ca/campus_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html)

### Safety

**Biosafety:** <https://www.dal.ca/dept/safety/programs-services/biosafety.html>

**Chemical Safety:** <https://www.dal.ca/dept/safety/programs-services/chemical-safety.html>

**Radiation Safety:** <https://www.dal.ca/dept/safety/programs-services/radiation-safety.html>

**Scent-Free Program:** <https://www.dal.ca/dept/safety/programs-services/occupational-safety/scent-free.html>