INSTRUCTOR: Dr. Jessie Vincent  
Email: Jessie.vincent@unb.ca  
Location: TAB 104/F

INSTRUCTIONAL ASSISTANT: Ryan Belowitz  
Email: ls3d03@mcmaster.ca  
Location: GSB 105/B

Course Description: An examination of biodiversity and sustainability in the face of climate change and population growth, with a focus on water as a resource.

Lectures: Fridays 11:30am-12:20pm in TSH B128

Required Texts & Materials: Readings will be provided through Avenue to Learn

Course Objectives: In this course students will develop an appreciation and understanding of the impact of climate change and population growth on resources and biodiversity. Students will learn to use original research material to develop a critical understanding of topics such water rights, water quality and distribution, sustainability and population growth.

Format: Weekly lectures will introduce topics for tutorial presentations and discussion. Readings and instructions for tutorials will be available on Avenue by Friday, 2 weeks before the tutorial (ie. week 5 tutorials instructions will be available Friday of week 3).

The first tutorial (week 2) will be spent organizing into groups for presentations. These will be your groups for the entire term. TA’s will randomly assign topics for presentations each week. After your group has presented each group member will submit a key point from the presentation. One student from each group will collate the points and submit them to the TA for grading within 72 hours. TA’s will post the summary points for the class. Summaries are included in material for the midterm exam. Summaries are worth 1 point and late summaries receive a mark of zero.

Schedule of Topics: Please see last page. Tutorial topics may change before being assigned due to interest and recent events.

Evaluation: Most weeks, students in small groups will give an informal presentation worth 5 marks and provide a short summary of the key points in the presentation. Occasionally, students will debate and discuss a topic for 4 marks. The midterm (20 marks) will be based on material from lectures and presentation/debate summaries. A final group project will be worth 20 marks and a final take home exam is worth 15. Bonus marks are possible for attending seminars and pop quizzes.
Absences & Missed Work:
If you are absent from the university for a minor medical reason, lasting up to 3 calendar days, you may report your absence, once per term, without documentation, using the McMaster Student Absence Form (MSAF). Absences for a longer duration or for other reasons must be reported to your Faculty office, with documentation, and relief from term work may not necessarily be granted. When using the MSAF, report your absence to course instructor or designate. You must then contact the instructor/instructional assistant/other immediately (normally within 2 working days) by email. Please refer to the contact list on the first page of this outline for appropriate email addresses. The instructor/instructional assistant will indicate what relief may be granted for the work you have missed, and relevant details such as revised deadlines, or time and location of a make-up exam/quiz/test. Please note that the MSAF may not be used for final deliverables, nor can it be used for a final examination or its equivalent.

Policies for MSAF relief specific to Life Sci 3D03:
MSAF relief for a presentation or debate: Marks will be reallocated to exclude the missed presentation.
MSAF relief for the midterm multiple choice exam: Student will be given the opportunity to write a short answer midterm at a later date.
MSAF relief for group projects: If 1 student is missing the presentation will go ahead under the assumption that the missing student contributed to the development and preparation of the project. If more than one student is missing on presentation day the group will be given an opportunity to present on another day.

Checking Your Grades: All grades will be loaded onto Avenue.

Re-mark Policy: Students have 1 week from the release of a mark to contest it.

Communication between Students and Faculty: Please contact me by email or personally after the lectures on Friday. I will be available in TAB 104/F on Fridays from 12:30-1:30, or by appointment.

Student Responsibilities:
To get the most out of the course, you must be prepared to:
• attend all sessions, make up all missed work, and provide documentation for authorized absences;
• interact frequently with faculty, students, TAs, and other support staff;
• plan and manage your own time;
• complete preparatory tasks (such as reading, writing assignments, and initial research) in advance of sessions;
• develop and use reflective learning skills (for example identifying learning objectives, planning and carrying out research tasks, acting on academic feedback);
• work as an effective, efficient, and responsive team member on group assignments;
• follow all the guidelines as outlined in the Introduction section of the Laboratory Manual;
• check the course Avenue site, and your McMaster and Avenue e-mail daily for updates; and,
• follow all university policies and guidelines, and in all ways be a responsible university member.
Senate Student Policies

Students can view full policies here (http://www.mcmaster.ca/policy/Students-AcademicStudies/).

Senate Policy Statements are also available from the Senate Secretariat Office, Room 104, and Gilmour Hall.


Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty.

The following illustrate only four of many forms of academic dishonesty:

- plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained;
- copying or using unauthorized aids in laboratory exercises
- improper collaboration in group work; and
- copying or using unauthorized aids in quizzes, tests and examinations

All students are reminded of the importance of academic integrity, and the serious consequences of academic dishonesty.


You acknowledge that your behavior in all aspects of this course should meet the standards of the McMaster University Student Code of Conduct. You understand that any inappropriate behavior directed against any of your colleagues, teaching assistants, or the instructional team will not be tolerated. Disruptive behavior during any session (e.g. lecture, seminar, lab, tutorial) such as talking, sleeping or non-class computing while an individual presents information, or constantly being late, will also not be tolerated. Abuse, ridicule, slander, inappropriate language, and discrimination towards instructors teaching staff, teaching assistants and other students will not be tolerated in any capacity. Shared spaces including e-spaces such as the Avenue to Learn course discussion board are to be considered inclusive and safe.

Plagiarism Detection

In this course, we will be using a web-based service (Turnitin.com) to reveal plagiarism. Students will be expected to submit their work electronically to Turnitin.com and in hard copy so that it can be checked for academic dishonesty. Students who do not wish to submit their work to Turnitin.com must still submit a copy to the instructor. No penalty will be assigned to a student who does not submit work to Turnitin.com. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, etc.). To see the Turnitin.com Policy, please go to www.mcmaster.ca/academicintegrity).

Copyright Policy

In this course you will have access to material that is subject to copyright laws. This includes (but is not limited to) textbooks and all resources developed by the instructors such as lab manuals, demonstration
videos, quizzes, assignments, tests, class notes and class slides. Under no circumstance are you allowed
to share or redistribute this material in any printed or electronic form without the explicit written
consent of the copyright holder. This includes posting any course material on Internet bulletin boards,
course repositories, social networks, etc.

The instructors and the university reserve the right to alter this outline if necessary.
The instructors and university reserve the right to modify elements of the course during the term. The
university may change the dates and deadlines for any or all courses in extreme circumstances. If either
type of modification becomes necessary, reasonable notice and communication with the students will
be given with explanation and the opportunity to comment on changes. It is the responsibility of the
student to check their McMaster email and course websites weekly during the term and to note any
changes.
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<tr>
<th>Quiz #</th>
<th>Topics</th>
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<tr>
<td>1</td>
<td>No Lecture</td>
<td>Apr 3-6</td>
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<tr>
<td>2</td>
<td>Group Presentations, Health Impact of Cannabis</td>
<td>May 27-31</td>
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<td>3</td>
<td>Top Group Presentations</td>
<td>May 20-24</td>
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<td>4</td>
<td>Price of Cellphones, Predicting Ebola</td>
<td>Jun 13-17</td>
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<td>5</td>
<td>Discuss value of biodiversity</td>
<td>Mar 6-10</td>
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<td>6</td>
<td>Student groups meet to plan projects-no scheduled lectures</td>
<td>Feb 27-Mar 3</td>
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<td>7</td>
<td>Biodevices/case projects</td>
<td>Jan 13-17</td>
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<td>8</td>
<td>MIDS term exam (material to Mar 3)</td>
<td>Feb 20-24</td>
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<td>9</td>
<td>Climate impact on humans and climate</td>
<td>Feb 6-10</td>
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<td>10</td>
<td>General lakes natural history</td>
<td>Jan 30-Feb 3</td>
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<td>11</td>
<td>Drought video</td>
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<td>12</td>
<td>Drought, Groundwater</td>
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<td>Risks Mitigation, Water Security</td>
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<td>14</td>
<td>Groundwater, Info and Climate this week</td>
<td>Jan 4-Jan 6</td>
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<td>15</td>
<td>No tutorials this week</td>
<td>Jan 9-13</td>
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