

Final Exam

Online Course Evaluations



Your course evaluations are critical to future course development and instructor assessment processes.

Undergraduate Course Evaluations for Winter 2017

Open: Monday, March 27, 2017 at 10:00 a.m.

Close: Monday, April 10, 2017 at 11:59 p.m.

- Log in with your MAC ID to evaluate your courses.
- Each evaluation will take approximately 5 to 15 minutes to complete.
- Your responses are completely anonymous.
- Evaluation results are not made available to instructors until *after* final marks have been submitted to the Office of the Registrar.

<https://evals.mcmaster.ca>

Courses of Interest in Geography and Environmental Sciences

- Level 2: **Envir Sc 2EI3: Environmental Issues**



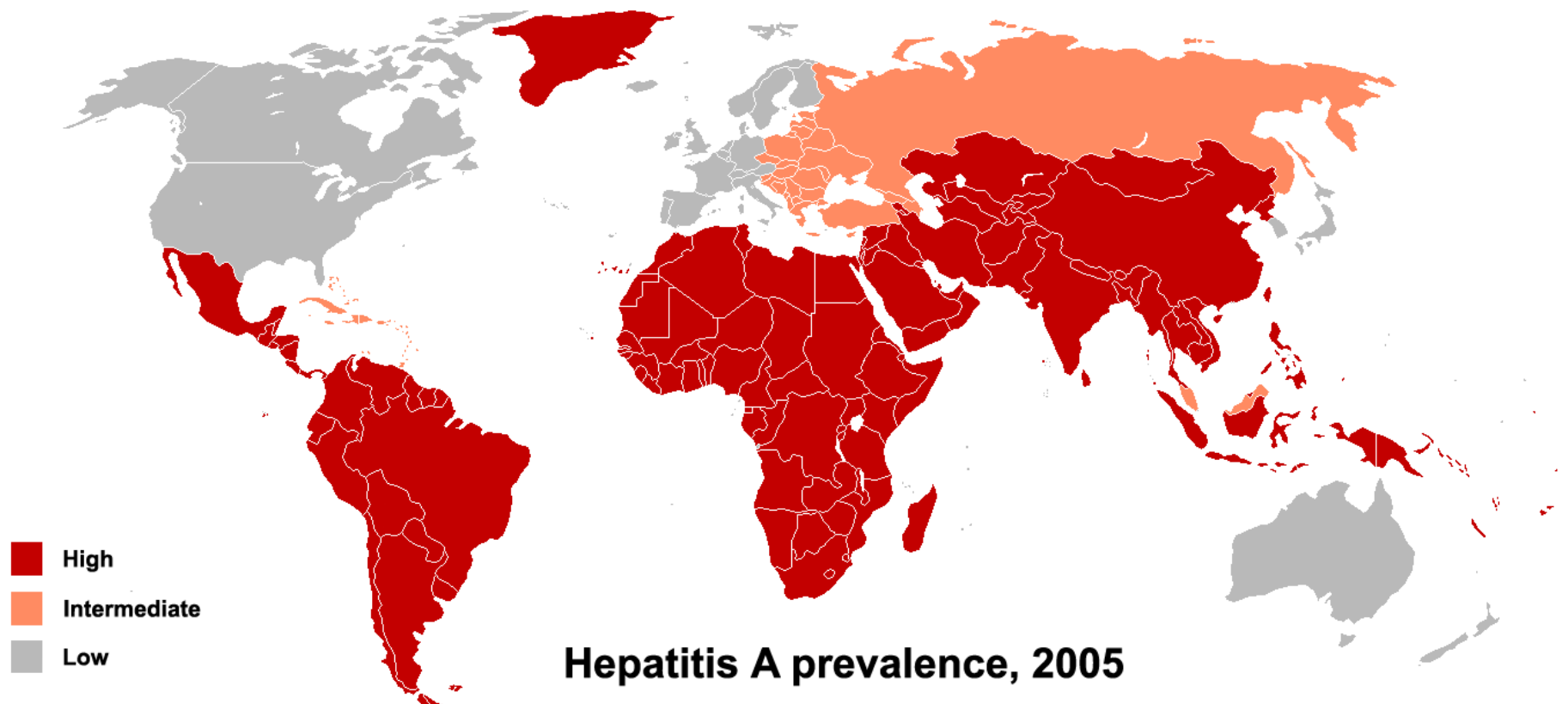
Courses of Interest in Geography and Environmental Sciences

- Level 2: **GEOG 2UI3 - Cities in a Changing World**



Courses of Interest in Geography and Environmental Sciences

- Level 2: **Geog 2HI3** Medical Geography



Courses of Interest in Geography and Environmental Sciences

- Level 3: **Envir Sc 3EE3** Energy and Society

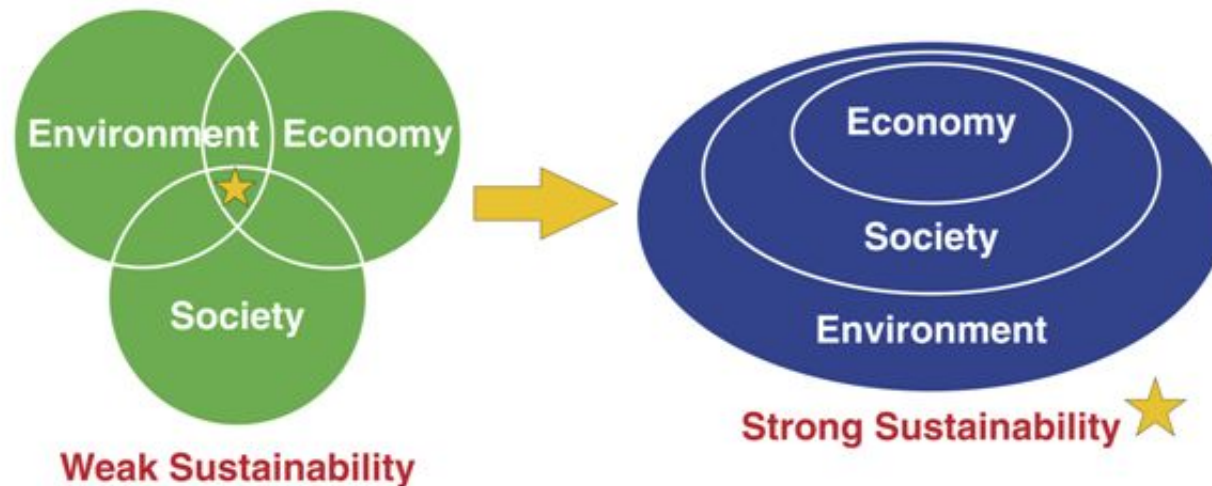


Courses of Interest in Geography and Environmental Sciences

- Level 3: **Geog 3ER3** Sustainability and the Economy

Triple Bottom Line

Interconnected and Interdependent Benefits



Source: Maureen Hart - Sustainable Measures

Courses of Interest in Geography and Environmental Sciences

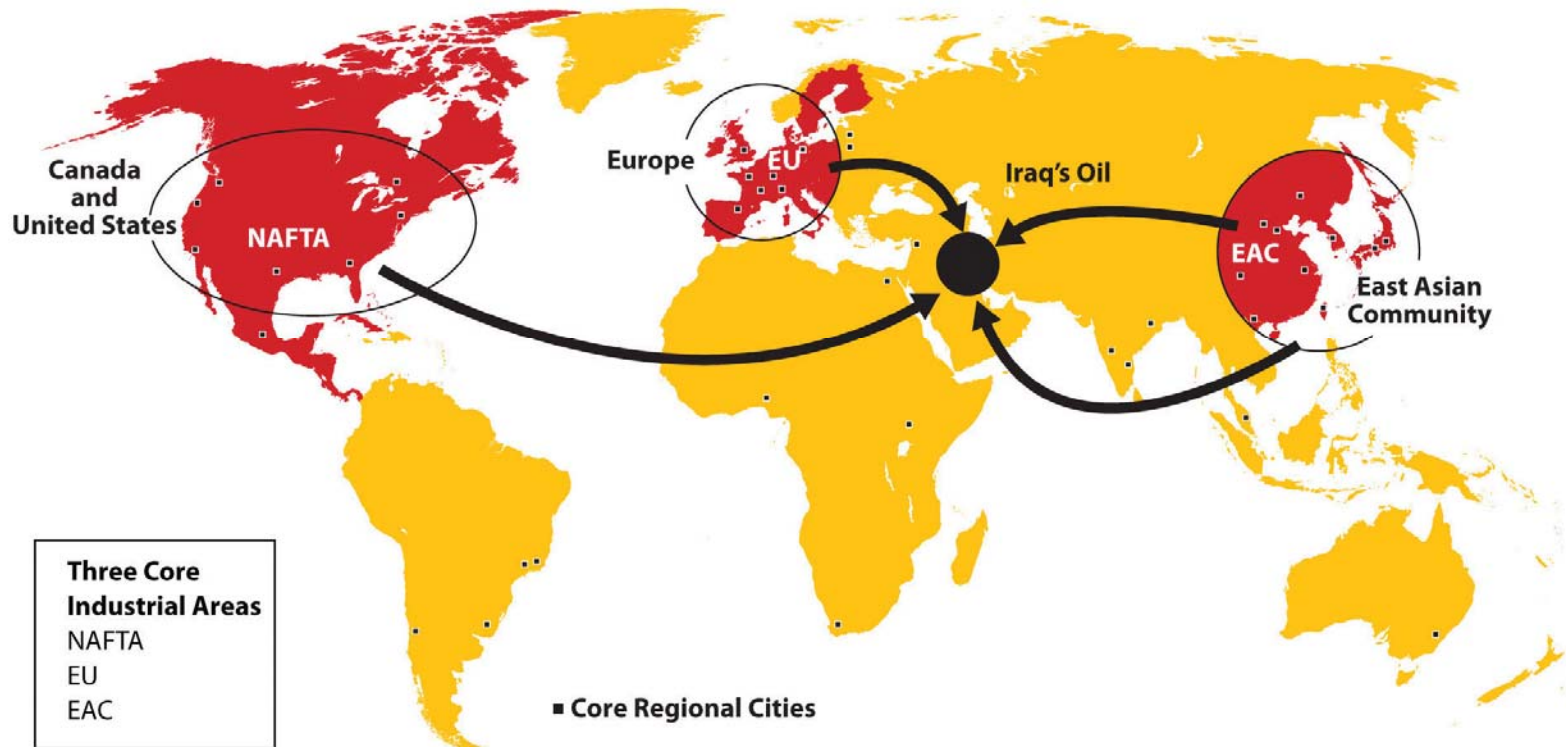
- Level 3: **Geog 3EC3** Environmental Catastrophes



Courses of Potential Interest in Geography and Environmental Sciences

- Level 3: **GEOG 3TG3 - Geographies of Globalization**

Globalization pressures political units to compete over labor and resources.



Courses of Potential Interest in Geography and Environmental Sciences

- Level 4: **Geog 4HH3** Environment and Health



Return of Term Paper

- Marks and Feedback for Term Paper will be released on Thursday April 6th, 5:30 p.m., on A2L
- General feedback and process to follow if you have concerns will be also be released then

Deadlines

- To have issues with marks on A2L addressed, apart from Term Paper:
 - Friday April 7th, 4:30 p.m.
- To have issues with Term Paper addressed:
 - Friday April 21st, 4:30 p.m.

Unregistered Clickers

- If you own one of the following clickers, **you need to contact me** if you want your responses to count for Participation marks:
 - 3FD0658A
 - 42C420A6
 - 42D69F0B
 - 443C4C34
 - 472DFC96
 - 47964899
- **Deadline: Friday, April 7th 2017, 4:30 p.m.**

OFFICE HOURS

Thursday, April 20

1:30 to 3:30 p.m.

GSB-202

FINAL EXAM

Tuesday, April 25

4:00 – 6:30 p.m.

BRING: Student Card

Few belongings

- Consult *Mosaic* for the location of your exam

What to Bring?

- Student ID Card
- Pen
- Pencil
- Eraser
- Pencil Sharpener

Final Exam

- **Test Format:**
- 2.5 hours
- 1) 30 multiple choice questions covering **Key concepts from Lectures 14 to 18**
- **Questions drawn equally from each lecture**
- 2) 5 short-answer questions drawn from End of Lecture Questions (3-4 marks each; 15-20 marks in total)
- **Drawn from entire course**

Lecture 14 - Key Concepts

- Globalization and its drivers
- Examples of the globalization of health risks
- Determinants of population health
- Globalization and population health
- Examples of distal/proximal determinants
- Examples of Health Benefits of globalization

Lecture 15 - Key Concepts

- Global Burden of Infectious Diseases; distribution of emerging diseases, outbreaks
- Role of migration and travel in disease dissemination
- Severe acute respiratory syndrome; history and role of air travel
- Mechanisms through which vectors expand their range
- Role of Trade and Economic Growth

Lecture 16 - Key Concepts

- Antibiotic Resistance as a Public Health Issue
- Antibiotics: what are they, types, modes of action
- History of antibiotic resistance, mechanisms, global trends
- Ecological role of antibiotic resistance, distribution in nature
- Role of population migration in disseminating resistance
- Examples of antibiotic resistance in pathogens

Lecture 17 - Key Concepts

- Antibiotic overuse
- Antibiotic usage in Agriculture
- Antibiotics in Sewage
- Antibiotic Resistance in Mixed Land Use
- Antibiotics Usage in China
- Antibiotic Resistance Genes in Wastewater Effluent

Lecture 18 - Key Concepts

- Trend towards Urbanization
- Cities and Non-Infectious Diseases: cardiovascular diseases; factors leading, groups exposed
- Transmission of Infectious Diseases: factors involved, examples, patterns of spread
- Social Issues: Mental Health, Women
- Reduced access in developing countries

Group Discussion

1st tutorial

End of Lecture Question

1. Despite the environmental changes which have occurred in the past 200 years, human health has mainly improved around the world.
 - What is the explanation for the overall improvements in global human health while natural systems have deteriorated?

Group Discussion

2nd tutorial

End of Lecture Question

1. Of the services provided by ecosystems, which one do you consider the most important?
 - What trends would you expect to observe in the next 50 years for this service? Can this service be restored if it is ever compromised?

End of Lecture Question

2. As discussed by Woodward et al. (Article 3 on A2L), the IPPC in its 5th Assessment identifies strategies which would help to mitigate climate impacts, and have at the same time health-benefits.
 - Which strategy do you believe would lead to the greatest climate and health-associated benefits?

Group Discussion

3rd tutorial

End of Lecture Question

1. What could be done to make our Health Care systems “smarter” in the face of climate change?
 - What lessons from natural or human-caused catastrophes could aid in making our health care system respond adequately in the face of rapidly changing conditions?
 - Provide 3 points

End of Lecture Question

2. For populations to live sustainably and with good long-term health, the health sector must work with other sectors in reshaping how human societies plan, build, move, produce, consume, share, and generate energy.
 - What are these other sectors, and how can they assist the health care professionals?

Group Discussion

4th tutorial

End of Lecture Questions

1. What information from past epidemics could be used to prepare the public health response in developing countries, in response to climate change?

End of Lecture Questions

2. Which specific actions can be taken under a Climate Change scenario, to protect ecosystem services?
- Are there services and/or ecosystems to which priority should be given? If so, which ones?

End of Lecture Questions

3. What can international aid agencies do to help the countries most vulnerable, mitigate the impacts of climate change on their food supply?
- Or are there means to adapt their food supply?

Lecture 10 - End of Lecture Question

1. What will be the impact of climate change on UV-induced pathologies?
- What types of behaviours (occupations, activities) may need to adapt?

Lecture 11 - End of Lecture Question

1. While there is a high cost to further measures which would reduce air pollution, many new findings suggest that health effects can be seen at ever lower concentrations of air pollutants
- How should these findings inform policies and regulations aiming to improve air quality?

Lecture 12 - End of Lecture Question

1. Wetlands are now artificially constructed to filter aquatic pollutants, e.g. wastewater
- What is the potential of developing artificial wetlands as tools to filter waterborne pathogens?

How to Answer End of Lecture Questions

1. Depending on question, you must state: yes/no; agree/disagree; which option you choose **(1 mark)**
2. Statements, based on your knowledge of the subject, that support your position **(2-3 marks)**
3. **There are no right/wrong answers** – marks will be given based on whether your positions are reasonably supported
4. **Looks at the total numbers of marks allocated for each question to determine how many points you need to discuss**

Special Instructions

(that will be on front page of Final Exam)

SPECIAL INSTRUCTIONS:

1. **Make sure to print your name and student number in the space provided above.**
2. Fill the designated spaces on the scantron sheet provided.
3. Make sure to indicate your name, and your student ID number in the appropriate spaces on the scantron.
4. **Only the answers provided on your scantron will be considered for the grading of the MC questions.**

Special Instructions (2)

5. There are two parts to this exam: 1) Multiple Choice Questions – use the scantron to answer them: 2) Short Answer Questions – use the space provided on the questionnaire. Only the answers provided within that space will be considered. **Please write legibly.**
6. **Aides of ANY type (lecture notes, textbook, calculator, etc.) are NOT allowed. Students found with unauthorized electronic devices (cell phones, etc.) during the exam will automatically receive a 15% penalty on their final exam mark, regardless of circumstances.**

Exam Preparation – Hints!

- Review lecture/ECHO 360 podcast notes carefully!
- Use the Key Concepts as a study guide
- Discuss amongst yourselves the end of lecture questions
- **THINK while reviewing!**

Exam Writing Hints!

- **Organize your time**
 - take 5 – 10 minutes to read paper and ‘settle in’
 - work out how much time you need for each question
 - don’t go over time on any one question
 - if any extra time, read and check through answers
- Read the questions carefully
- **Don’t panic – there’s always something you can do!**

Good Luck!