Course overview

Welcome!

Relationship between:
- food security
- food production
- the environment

Movies and guest lectures

Feedback

http://www.queensu.ca/envst/undergrad_information/Courses/ensc_315/ensc_315_2005_index.htm

Course requirements and grades

- One major written journal assignment, five in-class writing assignments, a mid-term and a final exam.
- **Journal**
  - Select a country or region that is experiencing food insecurity
  - Find four news pieces, journal articles, and/or web articles (not more than 3 of the four can be web-based). Using the articles, discuss the current food production and environmental challenges that impact this country as it strives to be food secure.
  - Four typed pages, not to exceed 1200 words
  - Due in fifth week of classes (February 10)
  - 30% of final mark

The people

- **Instructor:** Alison Blay-Palmer
  - palmera@post.queensu.ca

- Teaching assistants:
  - Jun Qian: qianjun29@yahoo.com
  - Bronwyn Keatley: keatleyb@biology.queensu.ca
  - Calvin Chan: 9cc25@qlink.queensu.ca

Marking summary

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal</td>
<td>February 10</td>
<td>30%</td>
</tr>
<tr>
<td>In-class writing</td>
<td>In-class</td>
<td>5% x 4 = 20%</td>
</tr>
<tr>
<td>Mid-term</td>
<td>February 17</td>
<td>20%</td>
</tr>
<tr>
<td>Final exam</td>
<td>Exam period</td>
<td>30%</td>
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Late policy

- Extensions are **not** normally given for reasons other than illness (with proper medical documentation) or family emergency.
- Assignments that are received late will be assessed a penalty of 2% per weekday. Weekends count as two days (i.e. 4%).

Academic dishonesty

- Academic dishonesty **will not be tolerated**. Dishonesty includes, but is not limited to, cheating on exams, ‘sharing’ work with a friend, or plagiarizing a secondary source – either intentionally, or inadvertently, by failing to provide proper citations. If you are unsure about what constitutes academic dishonesty, please ask me, or refer to the Arts and Science Course Calendar [http://www.queensu.ca/calendars/artsci/Regulation12_AcademicDishonestyandFailuretoAbidebyAcademicRules_2391.htm](http://www.queensu.ca/calendars/artsci/Regulation12_AcademicDishonestyandFailuretoAbidebyAcademicRules_2391.htm)

** ???????????ANY QUESTIONS?????? **

Week 1

Overview

- Course overview, introduction
- Guest lecturer: Jeff Moon on library resources
- Break (15 minutes)
- Introduction to global food security
- Movie: The Global Banquet: Part One, Who’s Invited?

** Readings **

- Google Food Security: start to look for a country of interest for journal assignment

Weeks 2 and 3

Resources and history

** Week 2: January 20 **

- Jan 21 last chance to add/drop courses with no $$$ penalty

** Lecture focus **

- Nutrition: Part One, Dr. Donefer
- FishBanks (resource allocation game)

** Readings **

- The World Commission on Environment and Development, 1989, Our Common Future, 95-146

** Week 3: January 27 **

- Lecture focus
  - Nutrition: Part 2, Dr. Donefer
  - Hunter gatherer to agriculture
  - Movie: The Dust Bowl

** Readings **

- Ronald Wright, 2004, A Short History of Progress, 34-48

** Academic dishonesty **


** Week 4 **

The weather

** Week 4: February 3 **

- Lecture focus
  - The environment and agriculture: global climate change
  - Movie: What’s Up with the Weather?

** Readings **

- Al Gore, 1993, Earth in the Balance, Chapters 6, 7

** Week 5 **

Urban food security

** Week 5: February 10 **

- Journal assignment due

** Lecture focus **

- Urban food security: Toronto, Cuba and beyond
  - Guest lecturer: Wayne Roberts, Project Co-ordinator, TFPC
  - Group discussion

** Readings **

- N Wrigley, D Warm and B Margetts, 2003, Deprivation, diet and food retail access: Findings from the Leeds ‘food deserts’ study, Environment and Planning A, 35, 151-168
**Weeks 6**

**Water**

**Week 6: February 17**

**Lecture focus** Water and food security

**Readings**
- WE Klohn and BG Appelgren, 2004, Challenges in the field of water resources management in agriculture, *Food and Agriculture Organization of the United Nations*

**MID-TERM READING WEEK February 21-25**

**Weeks 7 and 8**

**Sustainable agriculture and land use**

**Week 7: March 3**

**Lecture focus** Agriculture, the environment and biodiversity

- Guest speaker: Dr. vanLoon, expert sustainable Indian food projects
- Movie: *Reinventing the World*

**Readings**
- Gary VanLoon, 2004, *Agricultural Sustainability*

**Week 8: March 10**

**Lecture focus** Land use conflicts

- Guest speakers: Local farmer AND Kingston Food Bank

**Readings**

**Weeks 9 and 10**

**Politics and society**

**Week 9: March 17**

**Lecture focus** Agriculture and the changing political and social environment

- Movie: *Costa Rica Counts the Future*

**Readings**
- Peter Perez, 2004, *Dams, Guns and Refugees, Alternatives*, 30(4): 8-12

**Week 10: March 24**

**Lecture focus** Food security delivery

- Guest lecture: Brian Sterling
- Group discussions

**Readings**
- D Sparling, B Sterling, 2004, *Food Traceability: Assessing the Full Business Value, Grocery Trade Review, George Morris Centre*

**Week 11**

**Biotechnology and food security**

**Week 11: March 31**

**Lecture focus** Bulking up food production? Biotechnology and food security

- Movie: TBA

**Readings**
- Chantal Pohl Nielsen, Sherman Robinson, Karen Thierfelder, *Genetic Engineering and Trade: Panacea or Dilemma for Developing Countries*, *World Development* 29(8): 1307-1324

**Week 12**

**Future challenges**

**Week 12: April 7**

**Lecture focus** Future challenges: Food security and the future

- International development and food security
- Course wrap-up
- Group discussion

**Readings**

**Snack…**

- Helps to understand:
  - Food distribution
  - Access to food
Guest speaker…
- Please welcome Jeff Moon
  - from Stauffer Library
  - moonj@post.queensu.ca

What is food security?
- Food security:
  - Food security exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life
- When people are food insecure
  - What is hunger?
    - Clip from The Current, December 3, 2004 (20041203thecurrent_sec2 1:20-5:00)
    - Akim Kambamba, former resident of Sudan

The state of food insecurity
  - 815 developing countries
  - 28 million countries in transition
  - 9 million industrialized countries
- Over 5 million children die every year from malnutrition or malnutrition-related disease
  - Between 9 and 10 children every minute
World fertilizer use

World hunger hot spots

Next class...

- Lecture: Nutrition: Dr. Gene Donefer
- FishBanks
- Readings/research:
  - Google Food Security: start to look for a country of interest for journal assignment
  - The World Commission on Environment and Development, 1989, Our Common Future, 95-146
- On reserve:
  - Week 2: Marion Nestle. Chapter 2. Requirements: Energy in Nutrition in Clinical Practice