Instructor: Dr. Rudy Boonstra  
Office: S543  
Phone: 287-7419  
Lecture Room: AC 334 - Wednesday 9-11  
Laboratory/Seminar: SW323 - Thursday 12-15  
Office Hours: Wednesday 11-12  
T.A. Phoebe Edwards  
T.A. Office Hours: Immediately following the Lab

Prerequisites: BioB50  
Exclusion: EEB319H, (BGYC59H3), (BIO319H)

Course Text: C.J. Krebs 2009 Ecology: The Experimental Analysis of Distribution and Abundance. Benjamin Cummings; Chapters 1-17: Parts 1 to 3

Email Policy: Do not send emails. Contact should be during office hours or in the lecture/lab

Marking Scheme:  
Exams: Midterm - 30%; Final - 25%;  
Essay - 10%, Essay Seminar - 5%;  
Laboratory Assignments - 25%; Participation - 5%

Course Homepage: Available through UTSC homepage: Quercus Portal. All communication will be done via this mechanism. Check it weekly and more often near due dates for assignments. Lecture slides, data files, essay writing tools, news items, etc. will be posted.

Announcements: It is YOUR responsibility to be aware of announcements made in class. Be sure to CHECK the homepage on lecture days to read the announcements.

Readings: Textbook Chapters that should be read in support of lecture material are outlined on the course schedule. You should ensure that you UNDERSTAND everything you read and can follow the examples given. For exams, concentrate on learning material presented in lectures and related material in your text. I recommend you do the readings weekly as this is the best way to ensure you understand the material. Work through examples at end of the chapters.  
To succeed in this course, you should KNOW the lecture material and be sure you UNDERSTAND the TEXT and readings.

Exams: Each exam will consist of definitions of basic concepts, short answer, and 2-3 essays. The latter require you to synthesize concepts from the lecture/text and support them examples from the lecture/text. When I discuss techniques, make sure you understand and can apply them. Material for the midterm will include all lecture material to that point. The final will be comprehensive, but stress the new lectures (2/3s) and key concepts that integrate material.

Essay and Seminar: All topics must be cleared with me. See the handout specifically on this assignment. The essay will be due on 21 November (no exceptions! 10% per day late penalty) and the seminars will be presented on 22 Nov and 29 Nov (half the class presenting each time).

Assignments: All assignments (essay and lab reports) must be handed in as paper copies.
Lecture Schedule (tentative)

5 September  Definitions and scope of the field (Krebs chapters 1-3)
             Regulation of Population Size (part of Krebs chapter 14)
12 September Population Demography and Growth (Krebs 8)
19 September Population Growth (Krebs 9)
26 September Species Interactions: Competition (Krebs 10)
3 October  Species Interactions: Competition (Krebs 10) & Predation (Krebs 11)
8-12 October Reading Week
17 October  Species Interactions: Predation (Krebs 11)
24 October  Midterm Exam (NOTE 3 hours, starts at 8 am, ends at 11am)

31 October  Regulation of Population Size (Krebs 14)
             Analyzing Geographic Distributions (Krebs 4)
7 November  Factors That Limit Distribution I: Biotic (Krebs 5)
14 November Factors That Limit Distribution II: Abiotic (Krebs 6)
21 November Relationship between Distribution and Abundance (Krebs 7)
28 November Applied Problems: Pest Control (Krebs 16)

Tentative Lab Schedule

6 September  No lab
13 September Field trip: Vegetation Lab 12:00 onwards
20 September Goldenrod Lab: weighing of specimens, data input
27 September Vegetation Lab: data input and analysis
3 October   **Goldenrod Lab Due during lecture, No lab during lab period**
12 October  No Lab (reading week)
18 October  Small mammal trapping
29 October  **Vegetation Lab Due**
             Small mammal trapping, discussion of data and assignment
1 November  no lab
8 November  **Small Mammal Lab Due**
15 November How to Present a Seminar session
21 November **Essay Due**
22 November Seminar Presentations (half the class)
29 November Seminar Presentations (other half of the class)