

BIOC62H3S 2016: *The Role of Zoos in Conservation*

Instructor: Staff of the Toronto Zoo and Royal Botanic Gardens

Course Coordinator: Dr. Robin Marushia

Office Hours: Wed. 2 – 4 pm

TA: Andrew Masson

Office Hours: Mon. 4:30 – 5:30 pm

Lectures: Wednesdays 11:00 - 1:00 in MW160. One (1) Lecture period will be a field trip to the Zoo.

Tutorials: Six (6) Tutorials will be held per section over the course of the term. The Tutorial Schedule is listed below. One (1) Tutorial week will involve a field trip to the Zoo.

Tutorial 1: Thursdays 4 – 6 pm, AA209

Tutorial 2: Fridays 10 am – 12 pm, MW140

Exclusions: BGYC62H3

Prerequisites: BIOB50H3 & BIOB51H3

Textbook: Hosey G, Melfi V, and Pankhurst S. 2013. *Zoo Animals: Behaviour, Management & Welfare* (Second Edition). Oxford University Press, Oxford. 661 pp. 978-0-19-969352-8.

The textbook is required.

Course Description: A lecture/discussion course that examines the role of zoos in conservation, with an emphasis on contemporary topics such as: the involvement of zoos in in situ and ex situ conservation; captive breeding and re-introduction of species; new technologies to assist reproduction in wild populations; the importance of nutrition and behavioural enrichment in captive animals; zoos and animal health and welfare; zoos and public involvement/education; and the role of zoos in wildlife research.

Lectures: Lectures are conducted by guest experts from the Toronto Zoo & Royal Botanic Gardens. Please see Lecture Schedule for details.

Tutorials: Tutorials will be conducted by Dr. Robin Marushia and Andrew Masson. Students will be divided into groups and will submit Tutorial assignments as a group. Marks are given for in-class Tutorial assignments and activities. Participation from all members of the group is required to earn marks.

Evaluation:

Midterm Exam: 30%

In-Class Lecture, Readings, and ZOO VISIT #1.

Final Exam: 35%

Noncumulative, In-Class Lecture, Readings and ZOO VISIT #2. May also use/build on concepts from the first half of the course, and contain questions that are “big picture,” relying on synthesis of knowledge across the course.

Essay: 20%

Details TBA

Tutorial: 15% (3% per 5 classroom Tutorials – Zoo field trip tested on Final Exam)

Assignment 1: 3%

Assignment 2: 3%

Debate Summaries: 3%

Press Articles: 3%

Future of Zoos – Assignment 3: 3%

Readings:

Readings are an important source of content in this course! You are expected to read the assigned materials *before each Lecture in order to be prepared for our guest!*

Most of the assigned reading will come from the **required textbook**. The text is available from the UTSC bookstore.

Hosey G, Melfi V, and Pankhurst S. 2013. Zoo Animals: Behaviour, Management & Welfare (Second Edition). Oxford University Press, Oxford. 661 pp. 978-0-19-969352-8.

Supplemental readings may also be required, and knowledge of these **is also expected for the midterm and final examinations**. These may include, but are not limited to:

Toronto Zoo Conservation, Education and Research Activities Report 2010-2011 (Zoo will provide copies for all students enrolled)

Toronto Zoo - www.torontozoo.com/conservation

Association and Zoos and Aquariums - www.aza.org

World Association of Zoos and Aquariums - www.waza.org

Classroom Policies:

- 1) Please refrain from using your cell phone during class.
- 2) As advanced students, participation and respectful behaviour are expected. *Please minimize distractions and give your instructors and fellow students your full attention.*
- 3) Some materials will be provided online as lecture notes – these are intended to facilitate note-taking and enable learning during lectures, not to replace attendance to lecture.

Marking policies:

- Late assignments are docked 10% each day they are late, up to 5 days (including weekends), after which they are not accepted.
- A make-up exam is allowed only with a UTSC Health Centre doctor's note. In the event of significant illness or other event which prevents you from taking the midterm, you must inform Dr. Marushia within **3 days** and provide the UTSC doctor's note (for illness) or other convincing documentation (TBD) within 1 week. Students with valid reasons for missing the midterm will be given a new make-up exam (NOT the same exam as given to the class) to cover the first portion of the course.
- The final exam is NOT comprehensive, and will test material from the midterm to the end of term. The final exam will be held in the examination period. Anyone absent from the final exam must petition the registrar's office to take a deferred exam.

Turnitin.com

We will be using Turnitin.com for the Essay. You are expected to submit a digital copy of your assignment to Turnitin.com and a hard copy to be marked by your TA. The following statement is included for your information as per University policy:

“Normally, students will be required to submit their course essays to Turnitin.com for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site.”

You should have only one account for all of your University of Toronto coursework.

AccessAbility Statement

Students with diverse learning styles and needs are welcome in this course! In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. I will work with you and AccessAbility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in SW302) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca.

Academic Honesty Policy:

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto's Code of Behaviour on Academic Matters (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

In papers and assignments:

- Using someone else's ideas or words without appropriate acknowledgement.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment.

On tests and exams:

- Using or possessing unauthorized aids.
- Looking at someone else's answers during an exam or test.
- Misrepresenting your identity.

In academic work:

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from Dr. Marushia or from other institutional resources (see <http://academicintegrity.utoronto.ca/>).

Week	Date	Subject	Lecturer(s)	Readings (check BB!)
1	6-Jan	<i>no class</i>	<i>no class</i>	<i>Additional readings may be posted week-to-week.</i>
2	13-Jan	Introduction - Conservation, Education and Research at the Toronto Zoo, an overview.	Dr. Robin Marushia Dr. William Rapley	Ch. 1, 2, 3 & 10 (<i>Ch. 3, focus on int'l.</i>)
3	20-Jan	The “visible” zoo: Visit to the Toronto Zoo	VISIT	Ch. 5 & 6
4	27-Jan	Biodiversity, conservation, and selection of zoo collections.	Dr. Kevin Kerr	Ch. 10
5	3-Feb	Animal health in zoo collections and conservation programs.	Dr. Chris Dutton	Ch. 11
6	10-Feb	Captive breeding and recovery of two critically endangered mammals at the Toronto Zoo.	Maria Franke	Ch. 4 & 9
7	17-Feb	NO CLASS - READING WEEK		
9	24-Feb	Reproductive management in zoo species.	Dr. Gabriela Mastro Monaco	Ch. 7 & 9
8	2-Mar	Aquatic conservation in practice.	Cindy Lee	none
10	9-Mar	Amphibian and reptile conservation.	Dr. Andrew Lentini	Ch. 14
11	16-Mar	Zoo nutrition programs, and the preservation and feeding of browse to zoo animals.	Jaap Wensvoort,	Ch. 8 & 12
12	23-Mar	What do you do with 100,000 endangered species? The conservation challenges facing botanical gardens.	Dr. David Galbraith	none
13	30-Mar	Education programming at zoos: inspiring action and changing behaviour.	Heather House, Steve Jones, Kelly Bentley	Ch. 13 & 15
14	7-Apr	NO CLASS - READING WEEK		
	TBD	Final		

Tutorial			
Week	Date	Tutorial Section	Topic
1	14-Jan	1	The visible versus “invisible” zoo. Compare and contrast the facets of zoo – Assignment 1 Due
1	15-Jan	2	The visible versus “invisible” zoo. Compare and contrast the facets of zoo – Assignment 1 Due
2	21-Jan	1	
2	22-Jan	2	
3	28-Jan	1	Zoos as centres for research & health care for animal conservation – Assignment 2 Due
3	29-Jan	2	Zoos as centres for research & health care for animal conservation – Assignment 2 Due
4	4-Feb	1	
4	5-Feb	2	
5	11-Feb	1	Ethical debate tutorial, based on the balance between conservation & animal – Summaries Due
5	12-Feb	2	Ethical debate tutorial, based on the balance between conservation & animal – Summaries Due
6	18-Feb	1	<i>READING WEEK</i>
6	19-Feb	2	<i>READING WEEK</i>
7	25-Feb	1	
7	26-Feb	2	
8	3-Mar	1	<i>Behind the scenes tour of the Toronto Zoo</i>
8	4-Mar	2	<i>Behind the scenes tour of the Toronto Zoo</i>
9	10-Mar	1	
9	11-Mar	2	
10	17-Mar	1	Zoos in the press: Contemporary issues related to the role of zoos in conservation – Press Articles Due
10	18-Mar	2	Zoos in the press: Contemporary issues related to the role of zoos in conservation – Press Articles Due
11	24-Mar	1	
11	25-Mar	2	<i>GOOD FRIDAY</i>
12	31-Mar	1	The future of zoos – Assignment 3 Due
12	1-Apr	2	The future of zoos – Assignment 3 Due
13	4-Apr	N/A	<i>Good Friday makeup day – does not apply in this course.</i>