



UNIVERSITY OF CALGARY  
FACULTY OF SCIENCE  
DEPARTMENT OF BIOLOGICAL SCIENCES  
COURSE OUTLINE

1. Course: **ZOOLOGY 583 - ORNITHOLOGY**

Lecture Sections:      **L01**                      **MWF**                      **08:00**                      **ST 130**                      **Winter 2017**

**Course Coordinator/**

**Instructor:**                      **Dr. M. Ross Lein**                      **BI 334**                      **mrlein@ucalgary.ca**

D2L Site: ZOOL 583 L01 – (WINTER 2017) – ORNITHOLOGY (W2017ZOOL583L01)

Biological Sciences Department BI 186; (403) 220-3140; biosci@ucalgary.ca

2. **PREREQUISITES:** Biology 313 and one of Zoology 379 or 477.01  
See section 3.5.C in the Faculty of Science section of the online Calendar  
(<http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>)

3. **GRADING:** The University policy on grading and related matters is described sections [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

<b>Midterm Examination 1 (during lecture period on Wed. February 8)</b>	<b>20%</b>
<b>Midterm Examination II (during lecture period on Mon. March 20)</b>	<b>30%</b>
<b>Final Examination (To be scheduled by the Registrar's Office)</b>	<b>50%</b>

Each piece of work (assignments, laboratory reports, midterm test or final examination) submitted by the student will be assigned a percentage score. The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade, bearing in mind that a grade of F will result if the student does not pass the laboratory component.

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also [Section E.6](#) of the University Calendar.
5. Dates and times of class exercises held outside of class hours: N/A

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **Textbook: Recommended:** Gill, F.B. 2007. Ornithology, W.H. Freeman & Co. Third Edition.
7. **EXAMINATION POLICY:** No electronic or written aids (e.g. cell phones, tablets, computers, notes, textbooks) will be allowed during writing of any exams. Only non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper. Students should also read the Calendar, Section G, on Examinations.
8. **Writing across the curriculum statement:** In this course, the quality of the student's writing in laboratory reports will be a factor in the evaluation of those reports. See also [Section E.2](#) of the University Calendar.

Department Approval ORIGINAL SIGNED \_\_\_\_\_ Date \_\_\_\_\_

- 9. Human studies statement:** If you agree, your course work may be used for research purposes. Your responses will remain anonymous and confidential. Grouped data (no individual responses) may be used in academic presentations and publications. Participation in such research is voluntary and will not influence grades in this course. Students' signed consent forms will be withheld from instructors until after final grades are submitted. More information will be provided at the time student participation is requested. See also [Section E.5](#) of the University Calendar.

STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS. Students are expected to be familiar with <http://www.ucalgary.ca/pubs/calendar/current/sc-5-1.html> of the on-line calendar.

See also <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>.

#### 10. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties.
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at [http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities\\_0.pdf](http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf).
- Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Biological Sciences, Dr. H. Addy by email [addy@ucalgary.ca](mailto:addy@ucalgary.ca) or phone 403-220-3140.
- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 403-220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)  
SU Faculty Rep. Phone: 403-220-3913 Email: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca) and [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca)  
Student Ombuds Office: 403-220-6420 Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca); <http://ucalgary.ca/provost/students/ombuds>
- (g) **INTERNET and ELECTRONIC COMMUNICATION DEVICE Information. The use of your cell phone in class must be restricted to answering in-class questions using the Top Hat Monocle system.** Importantly, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.

## Zoology 583 – WINTER 2017

### Tentative Lecture Schedule

*Note: Departures from this schedule may be anticipated*

Lecture	Date	Topic
1	Jan 09	Introduction and Overview of Course
2	Jan 11	Avian Sensory Systems
3	Jan 13	
4	Jan 16	
5	Jan 18	
6	Jan 20	
7	Jan 23	Avian Annual Cycle - Introduction
8	Jan 25	Avian Annual Cycle - Molt
9	Jan 27	
10	Jan 30	Avian Annual Cycle - Migration
11	Feb 01	
12	Feb 03	
13	Feb 06	
14	Feb 08	MIDTERM EXAM I
15	Feb 10	Avian Annual Cycle – Migration (cont'd)
16	Feb 13	Social Organization
17	Feb 15	
18	Feb 17	
19	Feb 27	
20	Mar 01	
21	Mar 03	Behavior and Ecology of Avian Reproduction
22	Mar 06	
23	Mar 08	
24	Mar 10	
25	Mar 13	
26	Mar 15	
27	Mar 17	
28	Mar 20	
29	Mar 22	Behavior and Ecology of Avian Reproduction (cont'd)
30	Mar 24	Avian Vocal Communication
31	Mar 27	
32	Mar 29	
33	Mar 31	
34	Apr 03	
35	Apr 05	
36	Apr 07	
37	Apr 10	
38	Apr 12	

## GRADING SCHEME

<u>A+</u>	<u>90%</u>
<u>A</u>	<u>85%</u>
<u>A-</u>	<u>80%</u>
<u>B+</u>	<u>77%</u>
<u>B</u>	<u>73%</u>
<u>B-</u>	<u>70%</u>
<u>C+</u>	<u>67%</u>
<u>C</u>	<u>63%</u>
<u>C-</u>	<u>60%</u>
<u>D+</u>	<u>55%</u>
<u>D</u>	<u>50%</u>
<u>F</u>	<u>&lt;50%</u>

Fractions of 0.5% or higher are rounded up.

## LEARNING OUTCOMES

Upon completion of Zoology 583 students should have an understanding of the basic features of the biology of birds and be able to describe and explain these patterns, including:

- The nature of the sensory systems of birds, how these differ from those of humans, and how they influence the biology of birds.
- The typical annual cycle of life events experienced by birds, and how these are shaped by the opportunities permitted, and the constraints imposed, by being a flying homeotherm.
- The dominant systems of social organization shown by birds, and how these relate to the sensory abilities of birds and the possession of flight.
- The stages of the avian reproductive cycle, and how both the "typical" pattern and the wide range of variation in these events are related by features of ecology and behavior.
- The importance of vocal communication in birds including the unique nature of sound production in this group and why birdsong is the dominant acoustic feature of most terrestrial environments.