

UNIVERSITY OF CALGARY
DEPARTMENT OF BIOLOGICAL SCIENCES
COURSE OUTLINE

1. Course: **ZOOLOGY 597 - PRINCIPLES OF ENDOCRINOLOGY**

Lecture Sections: **L01** **T R 9:30** **Fall 2015**

Instructor(s): **Dr. H.R. Habibi** **BI 276** **220-5270** **habibi@ucalgary.ca**
Dr. M.M. Vijayan **BI 488** **220-3094** **matt.vijayan@ucalgary.ca**

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

2. **PREREQUISITES: Zoology 463**

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 in “Academic Regulations, sections F.1 and F.2” of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/f-1.html> and <http://www.ucalgary.ca/pubs/calendar/current/f-2.html>) In determining the overall grade in the course the following weights will be used:

Midterm Exam	50 %	In-Class	October 27, 2015
Final Exam	50 %		

Grade scale:

>87 A >83 A- >79 B+ >75 B >71 B- >67 C+ >63 C >59 C- >55 D+ >50 D <50 F

“Each piece of work (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.

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: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.
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. **EXAMINATION POLICY:** No electronic or written aids (eg. cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. 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: <http://www.ucalgary.ca/pubs/calendar/current/g.html>.”

Department Approval _____ ORIGINAL SIGNED _____ Date _____
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7. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **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 K. Student Misconduct (<http://www.ucalgary.ca/pubs/calendar/current/k.html>) 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 at <http://www.ucalgary.ca/emergencyplan/assemblypoints>.**
- (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.

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 or phone 403 220-3140.

- (d) **SAFEWALK:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call **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:** 220-3911 **Email:** suypaca@ucalgary.ca
SU Faculty Rep. **Phone:** 220-3913 **Email:** sciencerep@su.ucalgary.ca Website
<http://www.su.ucalgary.ca/home/contact.html>
Student Ombudsman: www.ucalgary.ca/provost/students/ombuds; ombuds@ucalgary.ca 220-6420
- (g) **INTERNET and ELECTRONIC COMMUNICATION DEVICE Information.** You can assume that in all classes that you attend, **your cell phone should be turned off.** Also, 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.

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DEPARTMENT OF BIOLOGICAL SCIENCES
COURSE OUTLINE
ZOOLOGY 597
PRINCIPLES OF ENDOCRINOLOGY

TERM: Fall 2015 SECTION NO: 01

PREREQUISITE(S): Zoology 463

A student may not register in a course unless he has a grade of at least C- in each prerequisite course.

COURSE COORDINATOR: Dr. H. R. Habibi

LECTURERS: Dr. Hamid R. Habibi BI 276 220-5270 habibi@ucalgary.ca
Dr. Matt M. Vijayan BI 488 220-3094 mmvijaya@ucalgary.ca

LECTURES: T R 9:30-10:45 in ST126

TEXT: Required: N/A

MARK DISTRIBUTION: A. Composition of Final Grade

Midterm Exam	50%	In Class
Final Exam	50%	

B. Final Exam

There will be a final examination scheduled by the Registrar's Office.

Grade scale:

>87 A >83 A- >79 B+ >75 B >71 B- >67 C+ >63 C >59 C- >55 D+ >50 D <50 F

This course is designed to provide coverage of the principles of modern endocrinology and to prepare students for graduate courses on more advanced topics in endocrinology. Lectures will include examples to emphasize comparative aspects. It is assumed that the student has knowledge of basic endocrinology from previous physiology and biochemistry courses.

ZOOLOGY 597 SCHEDULE, 2015

<u>Lec</u>	<u>Date</u>	<u>Lecture Title</u>
<i>Mechanisms of Hormone action (H.R. Habibi)</i>		
1	Tuesday Sep 8	Introduction, measurement & characterization of hormones
2	Thursday Sep 10	Hormone-receptor interaction
3	Tuesday Sep 15	Hormonal drug development and Biotechnology
4	Thursday Sep 17	Signal Transduction: Membrane receptors
5	Tuesday Sep 22	Signal Transduction: Nuclear receptors
<i>Hormonal control of growth, reproduction and differentiation (H.R. Habibi)</i>		
6	Thursday Sep 24	Hypothalamic-Pituitary hormones
7	Tuesday Sep 29	Hypothalamic-Pituitary hormones
8	Thursday Oct 1	Hypothalamic-Pituitary hormones
9	Tuesday Oct 6	Endocrine control of growth and differentiation
10	Thursday Oct 8	Endocrine control of growth and differentiation
11	Tuesday Oct 13	Male and female reproduction
12	Thursday Oct 15	Male and female reproduction
13	Tuesday Oct 20	Gonadal function
14	Thursday Oct 22	Therapeutic use of hormones and analogues
Tuesday	Oct 27	MID-TERM EXAM (40%; 9-30 a.m. – 10:45 p.m. Lec 1-14)
15	Thursday Oct 29	Endocrine disruption - Reproduction
<i>Integrated control of intermediary metabolism (M.M. Vijayan)</i>		
16	Tuesday Nov 3	Adrenal Endocrinology
17	Thursday Nov 5	Adrenal Endocrinology
18	Thursday Nov 10	Stress Endocrinology
19	Tuesday Nov 17	Stress Endocrinology
20	Thursday Nov 19	Endocrine disruption - stress
21	Tuesday Nov 24	Hormonal control of metabolism
22	Thursday Nov 26	Hormonal control of metabolism
23	Tuesday Dec 1	Hormonal control of metabolism
25	Thursday Dec 3	Hormonal control of metabolism
26	Tuesday Dec 8	Hormonal control of metabolism

FINAL EXAMINATION (60%; will be scheduled by the Registrar. Lec 1-25)

Lecture duration 75 minutes (9:30 – 10:45 am.)