



UNIVERSITY OF CALGARY

DEPARTMENT OF BIOLOGICAL SCIENCES COURSE OUTLINE

1. Course: BIOLOGY 205 – THE ORGANIZATION AND DIVERSITY OF LIFE

Lecture Section(s): L01 MWF 09:00-9:50 ST 140 FALL 2016

Course Coordinator: Dr. E. Lohmeier-Vogel BI 039 220-8281 lohmeier@ucalgary.ca

Instructors: Dr. E. Lohmeier-Vogel BI 039 220-8281 lohmeier@ucalgary.ca
Dr. P. Neuhaus BI 258 220-8776 pneuhaus@ucalgary.ca

Course description and lectures are Desire 2 Learn (D2L) under BIOL 205 L01 - (Fall 2016) - Organization & Diversity Of Life

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

2. Prerequisites: None

Antirequisite(s): Credit for both Biology 205 and any of Biology 231, 233, 241 or 243 will not be allowed.

Note: Not open for credit to Honours, Majors or Minors in the Department of Biological Sciences or to Natural Sciences program students with a Concentration in Biological Sciences.

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:

Exams (in class)	
Oct. 3:	24%
Oct. 24:	24%
Nov. 18	24%
Final	24% (60 minutes; scheduled by the Registrar's office)
Assignment	4%
Total	100%

Each exam 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 that will be used to determine the course letter grade using the conversion scale provided below.

Letter Grade Conversions	
Cutoff	Letter Grade
≥90	A ⁺
84	A
80	A ⁻
76	B ⁺
72	B
68	B ⁻
64	C ⁺
60	C
56	C ⁻
50	D ⁺
44	D
< 44	F

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.3 of the University Calendar
5. **Course Materials:** " Campbell Biology *Concepts and Connections*, 7th ed. **Second** Custom Edition for the University of Calgary, by Reece, Taylor, Simon and Dicky. Pearson Education. This text will be stocked by the Bookstore and should be available at the start of classes filed under the last name of the first author (Reece) in section R.
6. **Examination Policy:** no other aids except pencil and eraser and student ID are allowed during exams. Students should also read the Calendar, Section G, on Examinations.

11. 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 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.

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) 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.
- (e) **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.
- (f) **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>.
- (g) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suvpaca@ucalgary.ca
 SU Faculty Rep. Phone: 403 220-3913 Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca;
 Student Ombuds Office: 403 220-6420 Email: ombuds@ucalgary.ca;
<http://ucalgary.ca/provost/students/ombuds>
- (h) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. 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.
- (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). Your responses make a difference - please participate in USRI Surveys.

Lecturers: Dr. Ruckstuhl/Dr. Neuhaus will teach the first half of the course. Office hours/contact information will be communicated during the first lecture.

Dr. Lohmeier-Vogel will teach the second half of the course. As course coordinator, she has open office hours daily on a drop-in basis in BI 039 from 2-3:30 for students who have concerns about missed components of work or other concerns.

Examinations: Term examinations will be held during the regular lecture time and location on **Oct 3, Oct. 24 & Nov. 18, 2016** from 9:00 am to 9:50. Make sure you are outside ST 140 10 minutes before the exam. **No calculators or other electronic devices will be allowed during exam.** Backpacks and coats should be left at the front of the class (valuable items may be stored under your seat in a transparent closed baggie).

The midterm exams on **Oct 3 and Oct. 24** will deal with Dr. Neuhaus's component of the course and the midterm exam on **Nov 18** will deal with Dr. Lohmeier-Vogel's lectures. The final exam (scheduled by the Registrar) will deal with material from Dr. Lohmeier-Vogel's lectures only. All exams will be exclusively multiple-choice, with computer grading. Therefore, students are responsible for bringing the appropriate pencils (HB), ID cards and erasers to each exam to allow them to successfully complete the computer scansheets.

Exam deferrals: Because the term exams are held during regular lecture times, there should not be any conflict in time for students and no reason to defer an exam. **Medical difficulties that lead to the missing of an exam will require a written excuse from an M.D. or student counsellor.** Such medical excuse forms must be provided to the course coordinator within 48 hours of the missed exam; see Faculty of Science Regulations 3.6A in University Calendar. Deferrals of final examinations are handled through the Registrar's Office.

Attendance: Students are expected to attend all lectures. Students should read the Attendance section in the University of Calgary Calendar.

D2L site: A D2L site is established for the course. Instructors may post visual material presented in lectures so that students can print these prior to or after the lecture. This allows you to annotate the figures and graphs without having to draw them in class. Other announcements will also be made using the D2L site. Note: It is strongly advised that students annotate lecture notes manually, since the use of computers for this purpose has been shown to decrease exam performance up to 17%.

Grades, personal results, and answer key postings: Grades for the term examinations will be posted on the D2L site for the course. Answer keys may be viewed in BI 186 after the exam grades have been posted (see next section).

Term Exam Regrades:

Any student who wishes to obtain a copy of the midterm computer scoring sheet and see the midterm key exam answers may contact the personnel in the Biological Sciences office (BI 186). Any student who wants a regrade should contact the lecturer for that part of the course. The University of Calgary states that **a student shall have 15 days to appeal a grade on term work** following the date at which the grade was made available to the student (interpreted to mean, "15 days from when the grades are first available for viewing with an answer key").

Contacting the course instructors: **The instructors/coordinators involved in this course will meet with students during office hours or via a time prearranged by the student(s) and instructor (in rare instances).** Sessions with the instructor usually accommodate one student at a time. Groups of two or three can book group appointments if they so choose, as long as the instructor is informed beforehand.

**BIOL 205 – Organization and Diversity of Life
Fall 2016 TENTATIVE LECTURE SCHEDULE**

Date	Topic	Lecturer
Sept. 12 ELV/PN	Introduction, & Exploring Biology (chapter 1)	
Sept. 14,16	Evolution in the Beginning (chapter 13)	ELV/PN
Sept. 19,21	Mechanisms of Evolution (chapter 14)	PN
Sept. 23,26	Speciation and Phylogeny (chapter 15)	PN
Sept. 28	Biodiversity of Vertebrate Animals (chapter 21)	PN
Sept. 30	Overflow lecture and Review for Exam	PN
Oct. 3	*** Midterm Exam #1 *** (in-class, 50 minutes)	PN
Oct. 5	Nutrition in Animals (chapter 26)	PN
Oct. 7	Neurons and Nervous System (chapter 21)	PN
Oct. 10	Thanksgiving Day—No Lecture	PN
Oct. 12	Sensations (chapter 32)	
Oct.14	Sensations cont'ed	
Oct. 17,19	Behavioural Ecology	PN
Oct. 21	Overflow lecture and Review for Exam	PN
Oct. 24	*** Midterm Exam #2 *** (in-class, 50 minutes)	PN
Oct. 26	Atoms, compounds, chemical bonds	ELV
Oct. 28	All about water	ELV
Oct. 31	Organic compounds, carbohydrates	ELV
Nov. 2	Proteins and nucleic acids	ELV
Nov. 4	Lipids	ELV
Nov. 7	Cellular structure	ELV
Nov. 11	Reading Day- No lecture	
Nov. 14	Nucleus and ribosomes; the endomembrane system	ELV
Nov. 16	Energy converting organelles, cytoskeleton and cell surfaces	ELV
Nov. 18	*** Midterm exam #3 *** (in-class, 50 minutes)	ELV
Nov. 21	Membrane transport processes	ELV
Nov. 23	Energy, enzymes and metabolic pathways	ELV
Nov. 25	Cell division and reproduction	ELV
Nov. 28	Meiosis and crossing over, cell division errors	ELV
Nov. 30	Mendel's Laws	ELV
Dec. 2	Variations on Mendel's Laws, chromosomal basis of inheritance	ELV
Dec. 5	Sex linked genes, DNA replication	ELV
Dec. 7	DNA → RNA → Proteins	ELV
Dec. 9	Mutations and consequences for organisms	ELV

There will be a 60-minute **FINAL EXAM** scheduled by the Registrar on the material from Nov. 16 through Dec. 7