



# 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 CHC 119 FALL 2017

**Course Coordinator:** Dr. K. Ruckstuhl BI 258 220-8776 [kruckstu@ucalgary.ca](mailto:kruckstu@ucalgary.ca)

**Instructors:** Dr. E. Lohmeier-Vogel BI 039 220-8281 [lohmeier@ucalgary.ca](mailto:lohmeier@ucalgary.ca)  
Dr. K. Ruckstuhl BI 258 220-8776 [kruckstu@ucalgary.ca](mailto:kruckstu@ucalgary.ca)

Course description and lectures are Desire 2 Learn (D2L) under BIOL 205 L01 - (Fall 2017) - Organization & Diversity Of Life

Biological Sciences Department BI 186 403-220-3140 [biosci@ucalgary.ca](mailto: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. 2:	25%
Oct. 25:	25%
Nov. 20	25%
Final	<b>25% (75 minutes; scheduled by the Registrar's office)</b>

**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.

Final Grade Scale:

A+:	95 or higher
A :	90 and under 95
A- :	85 and under 90
B+:	80 and under 85
B :	75 and under 80
B- :	70 and under 75
C+:	65 and under 70
C :	60 and under 65
C- :	55 and under 60
D+:	53 and under 55
D :	50 and under 53
F :	<50



**Lecturers:** Dr. Ruckstuhl will teach the first half of the course. Office hours/contact information will be communicated during the first lecture. As course coordinator, she will be the point of contact for all course related issues.

Dr. Lohmeier-Vogel will teach the second half of the course. She will be having open hours during her part of the course. Those will be announced during the first lecture.

**Examinations:** Term examinations will be held during the regular lecture time and location on **Oct 2, Oct. 25 & Nov. 20, 2017** 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 2 and Oct. 25** will deal with Dr. Ruckstuhl's component of the course and the midterm exam on **Nov 20, 2017** 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").

**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 2017 TENTATIVE LECTURE SCHEDULE**

<b>Date</b>	<b>Topic</b>	<b>Lecturer</b>
Sept. 11	Introduction, & Exploring Biology (chapter 1)	KER/ELV
Sept. 13,15	Evolution in the Beginning (chapter 13)	KER
Sept. 18,20	Mechanisms of Evolution (chapter 14)	KER
Sept. 22,25	Speciation and Phylogeny (chapter 15)	KER
Sept. 27	Biodiversity of Vertebrate Animals (chapter 21)	KER
<b>Sept. 29</b>	<b>Overflow lecture and Review for Exam</b>	<b>KER</b>
<b>Oct. 2</b>	<b>*** Midterm Exam #1 *** (in-class, 50 minutes)</b>	<b>KER</b>
Oct. 4,6	Nutrition in Animals (chapter 26)	KER
Oct. 9	Neurons and Nervous System (chapter 21)	KER
Oct. 11	<b>Thanksgiving Day—No Lecture</b>	KER
Oct. 13	Sensations (chapter 32)	
Oct.16	Sensations cont'ed	
Oct.18, 20	Behavioural Ecology	KER
<b>Oct. 23</b>	<b>Overflow lecture and Review for Exam</b>	<b>KER</b>
<b>Oct. 25</b>	<b>*** Midterm Exam #2 *** (in-class, 50 minutes)</b>	<b>KER</b>
Oct. 27	Atoms, compounds, chemical bonds	ELV
Oct. 30	All about water	ELV
Nov 1	Organic compounds,	ELV
Nov. 3	Carbohydrates and proteins	ELV
Nov. 6	Nucleic acids and Lipids	ELV
Nov. 8	Cellular structure	ELV
Nov. 10	<b>Reading Day- No lecture</b>	
Nov. 15	The endomembrane system and organelles	ELV
Nov. 17	The cytoskeleton and membrane structure and function	ELV
<b>Nov. 20</b>	<b>*** Midterm exam #3 *** (in-class, 50 minutes)</b>	<b>ELV</b>
Nov. 22	Membrane structure and function	ELV
Nov. 24	Enzymes and metabolic pathways, binary fission	ELV
Nov. 27	Mitosis	ELV
Nov. 29	Meiosis and crossing over, cell division errors	ELV
Dec. 1	Mendel's Laws	ELV
Dec. 4	Variations on Mendel's Laws, chromosomal basis of inheritance	ELV
Dec. 6	Sex linked genes,	ELV
Dec. 8	Mutations and consequences for organisms	ELV

There will be a **75-minute FINAL EXAM** scheduled by the Registrar on the material from 11 through 21 Dec.