

TERRITORIAL ACKNOWLEDGEMENT: The University of Regina is situated on the territories of the nêhiyawak, Anihšînāpēk, Dakota, Lakota, and Nakoda, and the homeland of the Métis/Michif Nation. The Regina campus is on Treaty 4 lands, and Saskatoon classes are on Treaty 6 lands.

Professors:

Dr. Josef Buttigieg

RIC 218

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Lab Instructor: Karin Rustad

Email: Karin.Rustad@uregina.ca

Office hours: By booking through email.

Lectures: MWF

11:30-12:20 CL 125

As I live rurally, if there is inclement weather, lectures will be via zoom. A zoom link and message will be posted on URcourses, in that event.

Labs: T,Wam,Wpm,R

am: 8:30 pm: 2:30 LB419

Course description: This course will introduce you to the concepts and principles in animal physiology. Major systems to be covered include muscular, circulatory, respiratory, nervous, sensory, locomotor, excretory, digestive, and reproductive.

Office Hours: I have an open-door policy regarding office hours. Can email for an appointment.

Online Resources: A UR Courses site is available for this course and will be continually updated with lecture notes and supplementary material. Lecture outlines will be available 24 hours before each class.

Text: No textbook is required. We will provide relevant reading material on UR Courses. If you would like a free textbook to which to refer, OpenStax provides texts on Anatomy & Physiology, and Biology: <https://openstax.org/subjects/science>

Lab Materials: All lab information will be provided on UR Courses. You must bring your printed lab handouts with you to each lab. It is recommended that you keep the lab handouts together in a duotang or binder. Lab coats and safety glasses are required for some labs (indicated on the lab schedule). You are required to have a Turnitin account (free).

Important Dates:

Jan 7 th	First day of BIO378 lectures
Week of Jan 19 th	BIO378 labs begin
Jan 30 th	midterm 1 15%
Feb 16 th	Reading week- no classes
Feb 27 th	Midterm 2 15%
March 27 th	Midterm 3 20%
Mar. 30 ^h	3 MT presentations in lab
April 8 th	Midterm 4 10%

Grading:

Lecture Component	
Mid-term exams (spread over 4 exams)	60%
Lab Component (and PBL assignment)	40%
Total	100%

Labs – Attendance at all labs is mandatory. First labs are Jan 19th, 2026. Students who miss multiple labs without appropriate documentation (e.g. doctor's note, coach's note) will not be allowed to write the final exam for the course. More details are given in the lab policies and expectations pdf posted on the course website.

Exams – There will be 4 midterm exams and no final exam. Format and content for the exams will be discussed in class.

Lecture and Lab Outline:

* * All dates and topics are subject to change, as necessitated by illness, closures, or other unforeseen circumstances.

Week of	Topic	Lab
Jan 5	Introduction, Skeletal Muscles	No lab, classes start Jan 7 th .
Jan 12	Cardiac Muscle	No lab
Jan 19	Circulation	Heart Muscle
Jan 26	Ventilation	Smooth Muscle
Feb 2	Ventilation, Neurons	No labs
Feb 9	Neurons	No lab
Feb 16	Reading week – no lectures	Reading week – no lab
Feb 23	Review session, Midterm 1	Ventilation
Mar 2	Sensory systems	Proprioception
Mar 9	Vision and Hearing	No lab
Mar 16	Proprioception and locomotion	Kidney function
Mar 23	Kidney	No lab
Mar 30	Digestion, Reproduction	3MT presentation
Apr 8	Reproduction, Review	No lab

Please note that this course falls under the Academic Regulations of the University of Regina and the Faculty of Science (these regulations are printed in the General Calendar, available at <http://www.uregina.ca/student/registrar/publications/undergraduate-calendar/current.html>).

Special Needs: Students in this course who, because of a disability, may have need for specialized accommodations, should please discuss these accommodations with Drs. Hart or Buttigieg and should also contact the Disability Resource Office (Riddell Centre 251.15, 585-4631).

Labs: The lab will be delivered **in person**, in **Lab 419**. There will be one in-person presentation the week of March 30th. The room location for that class will be shared at a later date.

Learning outcomes:

1. Prepare fully for a lab, leaving enough time to ask questions a day ahead of a lab.
2. Follow instructions to collect data accurately.
3. Share data with others in a timely manner.
3. Follow instructions on how to present data in a specific manner.
4. Run basic statistics to look for statistically significant differences between data sets.

Lab materials: This lab provides all lab handouts and associated learning materials on URCourses.

Additional requirements: To complete the lab handouts, assignments, and associated documents, you will need a computer or laptop, reliable internet connection, Excel (recommended) or Google Sheets, Word (recommended) or Google docs, and a Turnitin account.

Late assignments/missed exam policy: Late assignments will earn a zero and will not receive feedback. To earn a grade in the lab, all assignments must be completed and submitted to the correct Turnitin folder by the last day of classes.