

Fall 2015

BIOS 3354

Bernard Rees
University of New Orleans

Lura Williamson
University of New Orleans

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Vertebrate Physiology (BIOS 3354) Fall 2015

Class Meeting:

Lecture MWF 9:00 - 9:50, BIO 101
Lab (001) Tu 2:00 – 4:45, SCI 2071
Lab (002) We 2:00 – 4:45, SCI 2071
Lab (003) Th 2:00 – 4:45, SCI 2071

Instructors:

Dr. Bernard Rees
Office BIO 234 phone: 280-6743 email: brees@uno.edu
Office hours: M W Th 10:00-11:50 am or by appointment

Dr. Lura Williamson
Office: BIO 212 phone: 280-7037 email: lawillia@uno.edu
Office Hours: MWF 10:00-11:50; TTh 8:00-10:50 am or by appointment

Student Learning Outcomes

In this course, students are expected to:
Learn and understand basic physiological principles
Learn and understand neural and muscle cell functions
Learn and understand system-level physiology
Integrate cellular and system responses in organismal biology
Learn and understand basic physiological techniques
Accurately measure and report specific physiological variables

Prerequisite: *Successful completion* of BIOS 2114 (grade of “C” or better). Students with courses from another university which they believe to be equivalent to BIOS 2114 must verify with Dr. Rees.

Textbook: Principles of Human Physiology (5th ed.), 2013, by C.L. Stanfield. Different versions are available:

Hardbound Textbook with Mastering A&P on-line access and CD;
Textbook a la carte (Loose Leaf) with Mastering A&P on-line access;
Stand Alone Mastering A&P on-line access with e-text;

Calculator: Students should bring a calculator to lectures, labs, and tests. Only **non-programmable** calculators are allowed during tests.

Internet: Students must have a UNO internet account and access to email and Moodle

Grading: The course total is 600 points. All graded material (tests, reports, quizzes, and assignments) will count toward the final grade, i.e., **no grades will be dropped**. Tentatively, letter grades for the course will be assigned on a 10% point scale.

The graded material will be:

	Each	Total
4 Lecture Tests	100	400
6 Lab Quizzes	5	30
6 Lab Tutor Reports	15	90
4 Problem Sets	10	40
Lab Final (with Lecture Test 4)	1	40
Course Total		600

Attendance: Attendance in lectures is expected and attendance during exams is mandatory. Unexcused absences from an exam will automatically result in a grade of zero for that exam. In the case of excused absences (e.g., illness or death in the family), the student must contact Dr. Rees within one week of the absence in order to schedule a make-up exam. In these cases, written documentation of the reason for the absence may be required from the student.

Students must attend all laboratory sessions during the time scheduled for that section. Students missing lab period without a verifiable, approved excuse will receive a zero for the assignment done that day (quiz, report, or problem set). In the case of an excused absence, the student must consult with the instructor to determine if the lab can be made up during another section.

Academic Integrity: Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>

Disability access: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

Important dates: The last date to drop the course and not have a grade assigned is September 8. The final date to drop a course and receive the grade of "W" is October 14.

Tentative Schedule of Topics

Dates	Lecture	Lab
Aug 19, 21	Course Intro, Chapter 1	No lab this week
Aug 24-28	Chapter 4	Lecture Chapters 2 and 3
Aug 31-Sep 4	Chapter 5	Lab Intro Exercise
Sep 9-11	Chapter 6	Problem set/review
Sep 14-18	Chapter 7	Frog Nerve Lab
Sep 21-25	Chapters 7 and 8	Electromyography Lab
Sep 28-Oct 2	Chapters 9 and 11	Problem set/review/CD
Oct 5-9	Chapter 12	Frog Muscle (Skeletal and Cardiac)
Oct 12-14	Chapter 12	No Lab-Fall Break
Oct 19-23	Chapter 13	Frog Muscle (Skeletal and Cardiac)
Oct 26-30	Chapter 14	Problem set/review/CD
Nov 2-6	Chapters 15 and 16	Cardiorespiratory Lab
Nov 9-13	Chapter 17	Respiratory Volumes Lab
Nov 16-20	Chapters 17 and 18	Problem set/review/CD
Nov 23-25	Chapter 18	No Lab-Thanksgiving Break
Nov 30 – Dec 4	Chapter 19	Lab Final

Tentative Test Dates

Date	Test	Chapters
Sep 18	1	1-6
Oct 9	2	7-11
Nov 9	3	12-15
Dec 9 (7:30 am)	4	16-19

University Holidays

Date	Holiday
Sep 7	Labor Day
Oct 15-16	Fall Break
Nov 26-27	Thanksgiving