

Principles of Biology II

(BIOL 1108, Sec. 3)

CRN#: 80560, BIOL 1108, FALL 2019, 4 CREDIT HOURS, AUG 12 – DEC 3

Hyperlinks for accessibility are provided throughout this document with full URLs noted in note.

INSTRUCTOR INFORMATION

Dr. David DesRochers, Peeples Hall/Office 224, Phone 706 272-2165 or email ddesrochers@daltonstate.edu

My student-hours are on Monday and Wednesday: 2:30–4 and Tuesday and Thursday: 10–11 and by appointment. These are hours for you to hang out, ask questions, and talk about cool biology stuff.

REQUIRED TEXT AND MATERIALS

Textbook: OpenStax Biology, a free, on-line [text](#),

Lab Manual: All lab activities are available on GAView. Each student is responsible for printing out the lab activity.

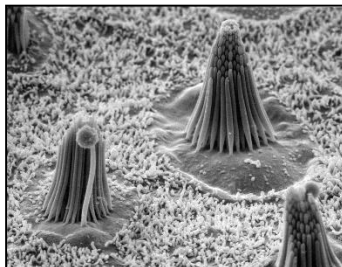
If you prefer to have a physical textbook in addition to the on-line book, any general biology book is fine. If these books are available in an audiobook format for accessibility, make note to the student to contact you (the professor) for screen reader capabilities/options.

CATALOG INFORMATION (INCLUDING PRE- AND CO-REQUISITES)

BIOL 1108K. Principles of Biology II. 3-2-4 Units. Prerequisites: BIOL 1107K.

COURSE INFORMATION/DESCRIPTION/OVERVIEW

Continuation of BIOL 1107. Topics include the structure and function of the following animal, including human, systems: nervous, circulatory, immune, respiratory, digestive, urinary, endocrine, and reproductive, as well as diversity, development, behavior and ecology.



EVALUATION

Three Lecture Exams (100 pts each)

Comprehensive Final Exam (100 pts)

≈20 Clicker Activities (5 pts each)

≈10 Lab Quizzes (10 pts each)

≈10 Pre-Lab Questions (5 pts each)

LEARNING GOALS/OUTCOMES

We will build on the following primary learning goals throughout the term:

- Lecture and discuss topics pertaining to evolution, ecology, and systems biology.

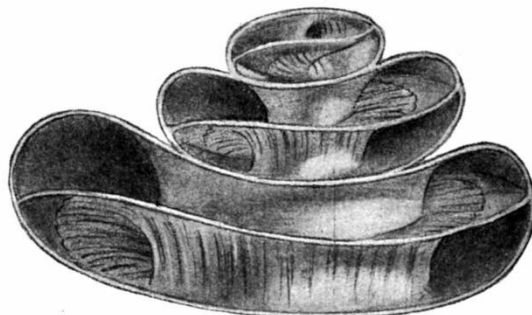
METHODS OF ASSESSING STUDENT LEARNING OUTCOMES

I will use student quizzes and exams to assess the student learning outcomes at the end of the semester as required by the Southern Association of Colleges and Schools Commission on Schools.

COURSE OBJECTIVES

We will build on the following six primary learning goals throughout the term:

1. Demonstrate an understanding of the structure and function of the following animal systems: nervous, circulatory, immune, digestive, respiratory, urogenital, and endocrine.
2. Demonstrate an understanding of human gametogenesis, fertilization, and early development.
3. Relate animal behavior to genetics and evolution.
4. Understand the major factors which cause microevolution and solve problems using the Hardy Weinberg equation.
5. Summarize factors that can lead to speciation
6. Demonstrate an understanding of the interactions between populations, communities, and the environment
7. Demonstrate effective use of a microscope.



ASSIGNMENTS

Lecture Exams

Exams will have multiple-choice, true/false, and short answer questions. **No cell phones allowed.** If you turn in your answers to the reading questions for each exam, I will add two bonus points to your exam.

Final Exam

This exam will be comprehensive. You can use one 3X5 inch index card with notes. It must be approved by me prior to the exam. If you turn in your previous three exams, then I will add three bonus points to your final – one for each exam.

iClickers

(5 points each). ≈20 Clicker Sessions (5 pts each) (all multiple choice or T/F) will be given during lectures and sometimes labs throughout the semester. I will drop your 2 lowest scores. You **MUST** be present in order to get credit. Clicker sessions **CANNOT** be made-up! The sessions will cover material from lectures we are covering within a unit. These questions help to ensure you are reviewing and to help you focus during lecture. I will allow you to submit 1 paper response if you forget your iClicker during the semester.

Pre-lab Questions

There will be 5-question assignments to help you prepare for most the lab activities. They must be completed prior to the start of lab each week. I drop your lowest score. Quizzes are available under the Quizzes Tab on GAView.

Lab Quizzes

There will be 10 lab quizzes. I drop your lowest score. Lab quizzes will cover material from the current lab. Reading the lab assignments ahead of time will help you prepare for lab and improve your performance.

Extra Credit

I occasionally make extra credit available, but since there are over 600 regular points to earn, anyone asking for extra credit, at any time, will activate a one-week period during which time no extra credit will be available. **If you know** any of the images in the syllabus, e-mail me (only) for 1 bonus point for each correct one. You must respond by Dec 2nd by 5 p.m. Please do not share information with classmates.

Additional Course Requirements

Grades are based on performance, not effort. Everyone puts forth a great deal of effort in the class and lab. Those who do not put forth a great deal of effort typically do not do well. Despite the great efforts, which are put forth by all, not all performances are equal. Some students are exceptional in their performance while others are satisfactory. Your grade will be based on your performance, i.e., your performance in the classroom, your performance on assignments, and your ability to display appropriate professional attributes.

Successful performance assignments/projects will be dependent on regular class attendance. Assignments must be handed in on due dates, with the exception of the student contacting Dr. DesRochers prior to the due date and discussing an arrangement with me – no exceptions).

LECTURE CALENDAR (INCLUDING DATE AND TIME OF FINAL EXAM) – TENTATIVE

Dates	Topics
Aug 13, 15	Course Intro, Evol. Change in Populations Ch. 18–19
Aug 20, 22	Ch. 18–19 cont., Speciation & Macroevolution Ch. 18–19
Aug 27, 29	Ch. 18–19 cont., Intro. to Ecology Ch. 45
Sept 3, 5	Ch. 45 cont., Catch-up & Review
Sept. 10, 12	Exam 1 , Neural Signaling Ch. 35
Sept. 17, 19	Ch. 35 cont., Neural Regulation Ch. 35
Sept. 24, 26	Ch. 35 cont., Sensory Systems Ch. 36
Oct. 1, 3	Ch. 36 cont., Catch-up & Review
Oct. 10 (no class on the 8 th)	Exam 2
Oct. 15, 17	Internal Transport Ch. 40
Oct. 22, 24	Gas Exchange Ch. 39
Oct. 29, 31	The Immune System Ch. 42
Nov. 5, 7	Exam 3 , Digestion & Nutrition Ch. 34
Nov. 12, 14	Ch. 34 cont., Osmoregulation Ch. 41
Nov. 19, 21	Ch. 41 cont., Endocrine Regulation Ch. 37
Nov. 26, Dec. 3	Ch. 37 cont., Catch-up & Review
Dec. 5, 12:30 – 2:30 p.m.	Final Exam: Comprehensive

LAB CALENDAR

Dates	Topic
Aug 20	Cystic Fibrosis & Evolutionary Change
Aug 27	Natural Selection
Sept 3	Ecology Game
Sept 10	Nervous System
Sept 17	Sensory System
Sept 24	Circulation
Oct 1	Respiration
Oct 15	Fetal Pig 1: Digestion, Respiration
Oct 22	Fetal Pig 2: Circulation
Oct 29	Fetal Pig 3: Reproductive & Urinary
Nov 5	Fetal Pig Quiz
Nov 12	Endocrine System
Nov 19	Reproduction & Development

USING DESIRE TO LEARN AND OTHER TECHNOLOGIES

We will utilize Desire to Learn (D2L) and other technologies in every class meeting. On the first day of class, I will provide an in-class demonstration.

ATTENDANCE

You are expected to be on time for all class periods. If you miss a class, YOU are responsible for finding out about missed assignments, announcements, and material covered. If you unexpectedly miss a day with group activities, please contact me as soon as possible, so we can work out a make-up solution. If you know you are going to miss a day due to a school-sponsored event, jury duty, etc., then you must schedule a make-up date with me prior to your absence.

LATE WORK/MAKE UP

Late assignments will lose 10% of the earned score daily up to three days late. They will not be accepted after that.

EMERGENCY INSTRUCTIONAL PLAN

If classes are cancelled due to inclement weather, please complete the reading assignment for the Syllabus BIOL 1108, DesRochers, Fall 2019

date(s) that we miss class. Check your e-mail and GAView for additional instructions.

COURSE POLICIES AND PROCEDURES

CARE TEAM

(Last Modified May 2018)

The Campus Assessment, Response, and Evaluation Team, also known as CARE, at Dalton State College engages in proactive and collaborative approaches to identify, assess, and mitigate potential risks associated with members of the campus who exhibit concerning or unusual behaviors. Report a concern through the [CARE Reporting Form](#)ⁱ. Should you have questions, contact the Dean of Students' Office at 706.272.4428.

DISABILITY ACCESS

(From [Disability Access](#)ⁱⁱ website)

Students with disabilities or special needs are encouraged to contact Disability Access. In order to make an appointment or to obtain information on the process for qualifying for accommodations, the student should visit the [Disability Access Library Guide](#)ⁱⁱⁱ or contact the Disability Access office.

Contact information

Andrea Roberson, Associate Director of Disability Access and Student Support Services
Pope Student Center, upper level
706-272-2524
aroberson@daltonstate.edu

ETHICAL CONDUCT

(Last Modified May 2018)

Academic Dishonesty Cheating and plagiarism are a part of the Dalton State Student Code of Conduct, which can be found in its most updated form at [Dalton State Student Code of Conduct](#).^{iv} ANY assistance provided or given in any way toward work in a class constitutes cheating, unless such behavior is authorized by your instructor. Additionally, any use of the ideas or words of others should be noted, or this will constitute plagiarism. Using another students' work or collaborating on an assignment not designated as collaborative is unacceptable. Furthermore, presenting work that was completed for another class, while not plagiarism technically, is not the same as presenting original work, and is therefore unacceptable unless it has been authorized by your instructor. For more details on what Dalton State considers to be Academic Dishonesty, please review the Student Code of Conduct. Instructors will assign grades based on classroom performance. Additional sanctions may be provided as a learning experience from the Student Conduct process.

Classroom Behavior Dalton State is committed to respect via the Roadrunner Respect pledge. To learn more, please visit [Roadrunner Respect](#).^v "I pledge to show my fellow Roadrunner students, faculty, staff, and administration respect by treating others the way they want to be treated and by thinking about others first before making decisions that might affect them."

COURSE WITHDRAWAL STATEMENT

Syllabus BIOL 1108, DesRochers, Fall 2019

(Last Modified May 2018)

The last day to drop this class without penalty (a W or a required signature) is **Oct 18, 2019**. If you complete the proper paperwork to drop the course by this date, you will be assigned a grade of W. After this date, withdrawal without penalty is permitted only in cases of [Extreme Hardship](#)^{vi} as determined by the Vice President for Academic Affairs; otherwise a grade of WF will be issued. Students who fail to complete the official drop/withdrawal procedure will receive the grade of F. Withdrawal from class is a student responsibility. The grade of W counts as hours attempted for the purposes of financial aid.

FULL WITHDRAWAL STATEMENT

(Last Modified May 2018)

The proper form for withdrawing from all classes at the college after the official drop/add period but before the published withdrawal date ([Academic Campus Calendar](#)^{vii}) is the [Schedule Adjustment Form](#)^{viii}. All students must meet with a staff member at the Dean of Students office in the upper-level of the Pope Student Center to initiate the withdrawal process and complete an exit interview. After meeting with the staff member, students will then finalize the withdrawal process in the Enrollment Services Office.

GRADE APPEALS

(Last Modified May 2018)

A student may file a formal challenge to a grade if there is unequivocal evidence that one or more of the following applies:

- a) It was a direct result of arbitrary and capricious conduct on the part of the instructor;
- b) The instructor discriminated against the student on the basis of a protected classification as the term is defined by Federal Law, Georgia State Law, or the Administrative Code of the City of Dalton;
- c) The grade was incorrectly calculated;
- d) A clerical error occurred in recording the grade; or
- e) A mitigating circumstance prevented the student from completing a final assignment or attending the final exam.

To appeal a grade, the student must notify the instructor in writing no later than two days after the posting of final grades. See [Grade Changes and Appeals](#)^{ix} for the complete documentation.

ACADEMIC PROGRESSION

(Last Modified May 2018)

To remain in academically good standing, students must maintain an institutional GPA of 2.0 or higher. Students who do not maintain a 2.0 move through a sequence of statuses ranging from Academic Warning to Academic Probation to Academic Suspension to Academic Dismissal. See [Academic Progress](#)^x for the complete documentation.

TITLE IX INFORMATION

Syllabus BIOL 1108, DesRochers, Fall 2019

Student Sexual Misconduct Policy ^{xi}

(Last Modified May 2018)

In accordance with Title IX of the Education Amendments of 1972 (“Title IX”), the University System of Georgia (USG) does not discriminate on the basis of sex in any of its education programs or activities or in employment. The USG is committed to ensuring a safe learning and working environment for all members of the USG community. To that end, this Policy prohibits sexual misconduct, as defined herein.

Please visit the [Title IX at Dalton State web page](#) ^{xii} for additional information on the [policy](#) ^{xiii}, [How to Report](#) ^{xiv}, [Resources](#) ^{xv}, and [Campus Programs](#) ^{xvi}.

HOUSE BILL 280

(Last Modified May 2018)

[House Bill 280](#) ^{xvii} commonly known as the “campus carry” legislation, is effective as of July 1, 2017.

OFFICIALLY APPROVED DSC GROUPS AND ACTIVITIES

(Last Modified May 2018)

When students are engaged in officially approved Dalton State groups or activities that require them to participate in events off campus during school days, they shall be treated similarly to any faculty or staff member acting in that same capacity. Thus, just as faculty and staff have excused absences from their regular work schedules, students shall be excused from class without penalty if they are off campus representing Dalton State College in an approved, official capacity during their regular class time. Examples include presenting a paper or otherwise participating in a conference, attending a University System student affairs event, participating in intercollegiate competition (athletic or academic), participating in an approved field trip, etc. Just as faculty and staff members are required to submit Request to Travel forms for approval, in order to be excused, the student needs to provide the following information to the instructor prior to the date when he/she will be absent from class:

- notification of the event (in the case of athletics, students should provide each instructor a schedule of away events at the beginning of the semester or as soon as possible after the schedule is available);
- estimated time of departure from and return to campus (for example, if a student has an away game in the evening and will not be leaving campus until 3:00, he/she will not be excused from classes prior to that time on that day; similarly, if the event is in the morning and the student will be returning to campus during the day, he/she is expected to attend any class scheduled after the return trip); and
- contact information for the person or organization sponsoring/authorizing the student’s participation in the event

The student shall be allowed to make up any work missed during the time he/she is off campus representing DSC in an official capacity. He/she shall discuss what will be missed with the instructor and make arrangements to make up any assignments, tests, presentations, etc. scheduled on that date.

SYLLABUS AGREEMENT FORM – DUE BY END OF FIRST WEEK OF CLASSES
TURN IN ON TIME FOR +1 BONUS POINT!

BIOL 1108
Fall 2019
Dr. DesRochers

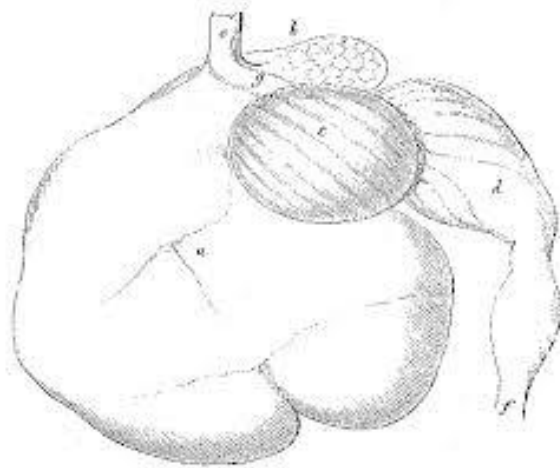
I have received and read this syllabus; Dr. DesRochers has explained it to me and has given me the opportunity to ask questions about anything I did not understand. I do understand the syllabus and agree to abide by its provisions.

Furthermore, I understand that if I have questions about anything in this syllabus or about any aspect of the course, I should speak with Dr. DesRochers as soon as possible to prevent misunderstandings.

Printed Name: _____

Signature: _____

Date: _____



FULL URL LINKS

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- i **CARE Reporting Form:** https://cm.maxient.com/reportingform.php?DaltonStateCollege&layout_id=1
- ii **Disability Access:** <http://libguides.daltonstate.edu/c.php?g=24716&p=149667>
- iii **Disability Access Library Guide:** <http://libguides.daltonstate.edu/c.php?g=24716&p=149663>
- iv **Dalton State Student Code of Conduct:** https://www.daltonstate.edu/campus_life/code-of-conduct.cms
- v **Roadrunner Respect:** https://www.daltonstate.edu/campus_life/respect-photo-gallery.cms
- vi **Extreme Hardship:**
<https://www.daltonstate.edu/skins/userfiles/files/DSC%20website%20landing%20page%20information.pdf>
- vii **Academic Campus Calendar:** <https://www.daltonstate.edu/about/calendars.cms>
- viii **Scheduled Adjustment Form:** <https://www.daltonstate.edu/skins/userfiles/files/schedule-adjustment-form.pdf>
- ix **Grade Appeals:** https://libguides.daltonstate.edu/ld.php?content_id=42740257
- x **Academic Progression:** https://libguides.daltonstate.edu/ld.php?content_id=42740270
- xi **Student Sexual Misconduct Policy:** <http://www.usg.edu/policymanual/section4/policy/C327/>
- xii **Title IX at Dalton State web page:** <https://www.daltonstate.edu/about/title-ix.cms>
- xiii **Title IX Policy:** <https://www.daltonstate.edu/about/title-iv-policy.cms>
- xiv **Title IX How to Report:** <https://www.daltonstate.edu/about/title-ix-report.cms>
- xv **Title IX Resources:** <https://www.daltonstate.edu/about/title-ix-campus-community-resources.cms>
- xvi **Title IX Campus Programs:** <https://www.daltonstate.edu/about/title-ix-campus-community-resources.cms>
- xvii **House Bill 280:** <http://www.usg.edu/hb280>