BIOL BIOLOGY II (BLS) 1620

Course Description
Animal structure, function, and development; principles of evolution, ecology, and behavior. Three lectures. BIOL 1625, Biology II Laboratory, should be taken concurrently with BIOL 1620. For students using BIOL 1620 to receive University Studies Breadth Life Sciences (BLS) credit, both BIOL 1620 and BIOL 1625 must be completed.

Prerequisite/Restriction: BIOL 1610.

Semester(s) Traditionally Offered: Spring

Fees
Registration for this course requires payment of a $95 lab fee. This fee is used to buy SimBio simulations, lab supplies and equipment for this course that are not covered by your tuition payments.

Course Objectives
By the end of this course, you will be able to:

1. Explain biology as a set of inter-related concepts within a framework of biological evolution.
2. Identify and apply important biological content, concepts and themes as a foundation for continued study in biology related fields.
3. Begin to think like a biologist using critical thinking skills, and the scientific method.
4. Demonstrate skills in working with basic laboratory apparatuses and procedures
5. Apply and develop learning strategies for success in college and beyond (lifelong learning skills)

Instructor
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Course Resources
Text book (print OR electronic version): Biology How Life Works, 3rd edition by Morris et al with portal access (2013, MacMillan, Freeman and Company). This year will be using auto-access through the USU bookstore. This will provide easy access to both the electronic version of the text and the Achieve learning portal associated with the text. Important: For those of you who took BIOL-1610 with Dr. Geffeney you fall fees did not include spring access but the "new" fees are covered in your registration. Neither the text or the Achieve portal are optional so auto-access provides the best and cheapest way of getting these required materials.

SimuText course packet from SimBio. This is required for the lab portion of the course. If you are not registered for BIOL-1625 you do not need to sign up for this. Details for signing up will be covered in class and on Canvas but the cost is covered by your lab fees.


Course Requirements

Each student will:

1. Complete assigned readings and other materials prior to class
2. Complete assignments on time
3. Make safety in the lab portion of the course an active priority
4. Respectful of other students and the instructor
5. Be responsible for keeping up with course assignments and other materials in Canvas

Evaluation Methods and Criteria

Lecture Activities: Grades for the lecture portion of the course are separate from the lab portion of the course. You will receive two final grades one for lecture and one for lab (see below). Your lecture activities will include exams, quizzes, Launchpad portal assignments, and other items. Completing assigned readings in the text prior to coming to class is expected and will improve your grade in the class. Exams will not include material directly from labs but because of obvious content overlap material from labs will enhance your knowledge for exams.

Lab Activities: Grades for the laboratory portion of the course are separate from the lecture. Labs are designed to investigate lecture material in greater depth and complement the lecture but grades will be separate. Please go to the BIOL-1625 Canvas page for the Lab Syllabus for a specific discussion of points and assignments

Course Management System CANVAS: You will need to use the course website on CANVAS to access weekly guided study questions (see below), current grade status, course information, link to my email, study guides, links to useful learning resources and more. Go to online.usu.edu (http://www.usu.edu/myusu/) and login to CANVAS using your A number and password, click on Courses in the top menu, and then click on the Biology 1620 link. We will also be using the portal website for the textbook and there will be required assignments that you will need to access and complete.

Quizzes & Exams: Quizzes and exams include all lecture material and readings covered since the previous exam. The format includes multiple choice, fill-in-the-blank, and short essay. Exams are taken in the testing center and will be offered for multiple days (typically Thursday through Saturday) to allow students with challenging schedules time to complete exams. You have six quizzes throughout the semester each worth 50 points. I will drop the lowest of the six. These are the equivalent of midterm exams so take the seriously. Your final exam will be comprehensive and also include new material.
**Reading Quizzes:** You will have reading quizzes administered through the Launchpad portal. These will be due before the class (Monday or Wednesday) in which we cover that chapter (see schedule). There will be 20 of these each worth 10 points. These **cannot be made up**. Please keep up with the reading and take these quizzes on time.

**Peer Learning:** Learning to communicate science and your knowledge is an important part of your education. You will have multiple (5) opportunities to teach your fellow students and help them understand the material we are working with. Peer learning exercises will occur in class and will not require additional preparation beyond coming to class having completed assigned reading. These will be worth 10 points each and will start the first week of the class.

**Launchpad Learning Curve Exercises:** Each of the assigned chapters will also have a Launchpad Learning Curve exercise activated in the portal. These are valuable study tools but **will not be required**. Instead they will be available for extra credit. There will be a total of 21 of these opportunities. Completing a Learning Curve exercise is worth two points of extra credit so a total of 42 points can be earned this way. **You need to complete the Learning Curve assignments by end of Friday in the week that we cover a given chapter to get credit.** I will keep them active for the whole semester so that you can use them as study tools.

**Course Grading Policy**

- It is your responsibility to keep all graded papers. You will need to have these if you find a discrepancy between the grade you calculate for yourself and the grade you are awarded.
- I will discuss issues with individual grades in my office not during class time.

**Grade Scheme**

The following grading standards will be used in this class:

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<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tr>
<td>A</td>
<td>100 % to 93.0%</td>
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<tr>
<td>A-</td>
<td>&lt; 93.0 % to 90.0%</td>
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<tr>
<td>B+</td>
<td>&lt; 90.0 % to 87.0%</td>
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<tr>
<td>B</td>
<td>&lt; 87.0 % to 83.0%</td>
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<tr>
<td>B-</td>
<td>&lt; 83.0 % to 80.0%</td>
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<tr>
<td>C+</td>
<td>&lt; 80.0 % to 77.0%</td>
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<tr>
<td>C</td>
<td>&lt; 77.0 % to 73.0%</td>
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<td>C-</td>
<td>&lt; 73.0 % to 70.0%</td>
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<td>D+</td>
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<td>&lt; 67.0 % to 60.0%</td>
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**Course Schedule/Outline**

Outline dates and assignments

**General Policies**

**Instructor's Responsibilities:** I will help you learn by engaging you in the material and challenging you to think like a biologist. You can expect me to attend all lectures, read the assigned material, and prepare examinations and quizzes that are fair and representative of the reading assignments, lecture activities, and lab activities as they relate to the learning objectives provided. I will also be available by email, telephone, or in my office during the day to answer questions and provide any needed assistance toward the course learning objectives.

**Student's Responsibilities:** You are expected to attend each lecture and laboratory, participate in activities, take comprehensive notes, and read the relevant material in the text. You should focus your efforts on achieving the learning objectives by doing the appropriate problems in the text and lab manual, reviewing concepts, and practicing problem solving. In the event that there is any difficulty in keeping up with the pace of the course, it is YOUR responsibility to contact me for advice or assistance. If you cannot take an exam during the scheduled period, you must make other arrangements with me **at least 72 hours before the exam** is given. If you cannot attend a class, you are still responsible for all content.

**Use of mobile devices and laptops in class:** Laptops and tablets are fine for taking notes and following along with material. **Please do not open social media pages during class or multitask with non-course elements. This is incredibly distracting. Please do not text, surf the web, or otherwise play with cell phones during class.**

**!!! Cell phones and Safety:** As a general rule cell phones should be put away during lab. Although we are not using hazardous materials (in general) in class phones can provide a pathway from the lab bench to you that should be avoided.

**Attendance and Excused Absences Policy**

**Attendance:** Attendance is very important to be successful in this course. I will not take attendance for the class but be aware that you are fully responsible for all announcements made and material covered in class, and that there will be **no make-up labs.** If you should miss a lab activity, then you are responsible to get the data and discuss the exercise with a lab partner. In some cases this will allow you to submit the required material and receive credit.

**Late submission of assignments:** I will deduct 10% of the assignment value for each day it is late. For example, if you turn in an assignment two days late, I will deduct 20% prior to grading.

**Nonattendance Policy**

**Students May Be Dropped For Nonattendance**

If a student does not attend a class during the first week of the term or by the second class meeting, whichever comes first, the instructor may submit a request to have the student dropped from the course. **(This does not remove responsibility from the student to drop courses which he or she does not plan to attend.)** This option
Assumption of Risk

All classes, programs, and extracurricular activities within the University involve some risk, and certain ones involve travel. The University provides opportunities to participate in these programs on a voluntary basis. Therefore, students should not participate in them if they do not care to assume the risks. Students can ask the respective program leaders/sponsors about the possible risks a program may generate, and if students are not willing to assume the risks, they should not select that program. By voluntarily participating in classes, programs, and extracurricular activities, a student does so at his or her own risk. General information about University Risk Management policies, insurance coverage, vehicle use policies, and risk management forms can be found at: http://www.usu.edu/riskmgt/ (http://www.usu.edu/riskmgt/)

Library Services

All USU students attending classes in Logan, at our Regional Campuses, or online can access all databases, e-journals, and e-books regardless of location. Additionally, the library will mail printed books to students, at no charge to them. Students can also borrow books from any Utah academic library. Take advantage of all library services and learn more at libguides.usu.edu/rc. (http://libguides.usu.edu/rc)

Classroom Civility.

Utah State University supports the principle of freedom of expression for both faculty and students. The University respects the rights of faculty to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede the learning process. Disruptive classroom behavior will not be tolerated. An individual engaging in such behavior may be subject to disciplinary action. Read Student Code Article V Section V-3 (https://studentconduct.usu.edu/studentcode/article5) for more information.

University Policies & Procedures

Academic Freedom and Professional Responsibilities

Academic freedom is the right to teach, study, discuss, investigate, discover, create, and publish freely. Academic freedom protects the rights of faculty members in teaching and of students in learning. Freedom in research is fundamental to the advancement of truth. Faculty members are entitled to full freedom in teaching, research, and creative activities, subject to the limitations imposed by professional responsibility. Faculty Code Policy #403 (http://www.usu.edu/hr/files/uploads/Policies/403.pdf) further defines academic freedom and professional responsibilities.

Academic Integrity – "The Honor System"

Each student has the right and duty to pursue his or her academic experience free of dishonesty. To enhance the learning environment at Utah State University and to develop student academic integrity, each student agrees to the following Honor Pledge:
"I pledge, on my honor, to conduct myself with the foremost level of academic integrity."

A student who lives by the Honor Pledge is a student who does more than not cheat, falsify, or plagiarize. A student who lives by the Honor Pledge:

- Espouses academic integrity as an underlying and essential principle of the Utah State University community;
- Understands that each act of academic dishonesty devalues every degree that is awarded by this institution; and
- Is a welcomed and valued member of Utah State University.

### Academic Dishonesty

The instructor of this course will take appropriate actions in response to Academic Dishonesty, as defined the University’s Student Code. Acts of academic dishonesty include but are not limited to:

- **Cheating:** using, attempting to use, or providing others with any unauthorized assistance in taking quizzes, tests, examinations, or in any other academic exercise or activity. Unauthorized assistance includes:
  - Working in a group when the instructor has designated that the quiz, test, examination, or any other academic exercise or activity be done “individually;”
  - Depending on the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments;
  - Substituting for another student, or permitting another student to substitute for oneself, in taking an examination or preparing academic work;
  - Acquiring tests or other academic material belonging to a faculty member, staff member, or another student without express permission;
  - Continuing to write after time has been called on a quiz, test, examination, or any other academic exercise or activity;
  - Submitting substantially the same work for credit in more than one class, except with prior approval of the instructor; or engaging in any form of research fraud.

- **Falsification:** altering or fabricating any information or citation in an academic exercise or activity.

- **Plagiarism:** representing, by paraphrase or direct quotation, the published or unpublished work of another person as one’s own in any academic exercise or activity without full and clear acknowledgment. It also includes using materials prepared by another person or by an agency engaged in the sale of term papers or other academic materials.

For additional information go to: ARTICLE VI. University Regulations Regarding Academic Integrity (https://studentconduct.usu.edu/studentcode/article6)

### Sexual Harassment/Title IX

Utah State University is committed to creating and maintaining an environment free from acts of sexual misconduct and discrimination and to fostering respect and dignity for all members of the USU community. Title IX and USU Policy 339 (http://www.usu.edu/policies/339) address sexual harassment in the workplace and academic setting.

The university responds promptly upon learning of any form of possible discrimination or sexual misconduct. Any individual may contact USU’s Affirmative Action/Equal Opportunity (AA/EO) Office (http://aaeo.usu.edu) for available options and resources or clarification. The university has established a complaint procedure to handle all types of discrimination complaints, including sexual harassment (USU Policy 305 (http://www.usu.edu/policies/305/)), and has designated the AA/EO Director/Title IX Coordinator as the official responsible for receiving and investigating complaints of sexual harassment.

### Withdrawal Policy and "I" Grade Policy
Students are required to complete all courses for which they are registered by the end of the semester. In some cases, a student may be unable to complete all of the coursework because of extenuating circumstances, but not due to poor performance or to retain financial aid. The term ‘extenuating’ circumstances includes: (1) incapacitating illness which prevents a student from attending classes for a minimum period of two weeks, (2) a death in the immediate family, (3) financial responsibilities requiring a student to alter a work schedule to secure employment, (4) change in work schedule as required by an employer, or (5) other emergencies deemed appropriate by the instructor.

**Students with Disabilities**

USU welcomes students with disabilities. If you have, or suspect you may have, a physical, mental health, or learning disability that may require accommodations in this course, please contact the Disability Resource Center (DRC) (http://www.usu.edu/drc/) as early in the semester as possible (University Inn # 101, (435) 797-2444, drc@usu.edu (mailto:drc@usu.edu)). All disability related accommodations must be approved by the DRC. Once approved, the DRC will coordinate with faculty to provide accommodations.

**Diversity Statement**

Regardless of intent, careless or ill-informed remarks can be offensive and hurtful to others and detract from the learning climate. If you feel uncomfortable in a classroom due to offensive language or actions by an instructor or student(s) regarding ethnicity, gender, or sexual orientation, contact:

- Division of Student Affairs: https://studentaffairs.usu.edu (https://studentaffairs.usu.edu/), (435) 797-1712, studentservices@usu.edu (mailto:studentservices@usu.edu), TSC 220
- Access and Diversity: http://accesscenter.usu.edu (http://accesscenter.usu.edu/), (435) 797-1728, access@usu.edu (mailto:access@usu.edu); TSC 315
- Multicultural Programs: http://accesscenter.usu.edu/multiculture (http://accesscenter.usu.edu/multiculture), (435) 797-1728, TSC 315
- LGBTQA Programs: http://accesscenter.usu.edu/lgbtqa (http://accesscenter.usu.edu/lgbtqa/), (435) 797-1728, TSC 3145
- Provost’s Office Diversity Resources: https://www.usu.edu/provost/diversity (https://www.usu.edu/provost/diversity/), (435) 797-8176

You can learn about your student rights by visiting:

The Code of Policies and Procedures for Students at Utah State University: https://studentconduct.usu.edu/studentcode (https://studentconduct.usu.edu/studentcode/)

**Grievance Process**

Students who feel they have been unfairly treated may file a grievance through the channels and procedures described in the Student Code: Article VII (https://studentconduct.usu.edu/studentcode/article7).

**Full details for USU Academic Policies and Procedures can be found at:**

- Student Conduct (http://www.usu.edu/studentconduct)
- Student Code (https://studentconduct.usu.edu/studentcode/)
- Academic Integrity (https://studentconduct.usu.edu/studentcode/article6)
- USU Selected Academic Policies and Procedures (http://www.usu.edu/provost/faculty-life/syllabus.cfm)

**Emergency Procedures**
In the case of a drill or real emergency, classes will be notified to evacuate the building by the sound of the fire/emergency alarm system or by a building representative. In the event of a disaster that may interfere with either notification, evacuate as the situation dictates (i.e., in an earthquake when shaking ceases or immediately when a fire is discovered). Turn off computers and take any personal items with you. Elevators should not be used; instead, use the closest stairs.