

Spring 2021 BIOL-1010-PO2 XL Syllabus

FALL 2020 • USU EASTERN

BIOL 1010: BIOLOGY AND THE CITIZEN

COURSE DETAILS

Instructor Dr. Wayne Hatch, Reeves 264

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WEEKLY SCHEDULE

1: Jan 18-22	Ch. 1 Introduction to Biology (https://usu.instructure.com/courses/643325/pages/ch-1)
2: Jan 25-29	Ch. 2 Chemistry of Life (https://usu.instructure.com/courses/643325/pages/chemistry)
3: Feb 1-5	Ch. 3 Cell (https://usu.instructure.com/courses/643325/pages/the-cell-objectives) Stru (https://usu.instructure.com/courses/643325/pages/the-cell-objectives) Exam 1
4: Feb 8-12	Ch. 4 How Cells Obtain Energy (https://usu.instructure.com/courses/643325/pages/en)
5: Feb 15-19	Monday Holiday - President's Day Ch. 5 Photosynthesis (https://usu.instructure.com/courses/643325/pages/photosynth) Prepare for and take Exam 2
6: Feb 22-26	Ch. 6 Cell Division (https://usu.instructure.com/courses/643325/pages/cellular-reprod) Ch. 7 Cell Basis for Inheritance (https://usu.instructure.com/courses/643325/pages/ba reproduction)
7: Mar 1-5	Ch. 8 Patterns of Inheritance (https://usu.instructure.com/courses/643325/pages/inhe) Prepare for and take Exam 3

8: Mar 8-12	Ch. 9 Molecular Biology (https://usu.instructure.com/courses/643325/pages/molecula) Friday - Day off
9: Mar 15-19	Ch. 10 Biotechnology (https://usu.instructure.com/courses/643325/pages/biotechnolc) Exam 4 (https://usu.instructure.com/courses/643325/pages/chapter-13) (https://usu.instructure.com/courses/643325/pages/chapter-13) (https://usu.instructure.com/courses/643325/pages/chapter-14)
10: Mar 22-26	Ch. 11 Evolution (https://usu.instructure.com/courses/643325/pages/evolutionary-pro)
11: Mar 29 - Apr 2	Ch. 12,13,14,15 Diversity of Life (https://usu.instructure.com/courses/643325/pages/d) Exam 5
12: Apr 5-9	Ch. 16 Body Systems (https://usu.instructure.com/courses/643325/pages/animal-body) Friday - Day off
13: Apr 12-16	Ch. 17,18 Immunity and Reproduction (https://usu.instructure.com/courses/643325/pa reproduction) Exam 6
14: Apr 19-23	Ch. 19 Population and Community (https://usu.instructure.com/courses/643325/pages community-ecology) Ecology (https://usu.instructure.com/courses/643325/page community-ecology) Ch. 20 Ecosystems and the Biosphere (https://usu.instructure.com/courses/643325/p and-biosphere) (https://usu.instructure.com/courses/643325/pages/chapter-20) (https://usu.instructure.com/courses/643325/pages/chapter-21)
15: Apr 26-30	Ch. 21: Conservation and Biodiversity (https://usu.instructure.com/courses/643325/p and-biodiversity) (https://usu.instructure.com/courses/643325/pages/conserva biodiversity) Exam 7 beginning on Thursday, Apr 29
16: May 3-5	Exam 7 by Wednesday, May 5

CATALOG DESCRIPTION

Principles and methods of biology and how they impact the daily life and environment of the individual.

GENERAL COURSE OBJECTIVES

- Explore the nature of science (How does science work?)
- Evaluate the credibility of scientific claims
- Explore the basic characteristics of life
- Describe the evolution of life
- Classify the diversity of life on earth
- Describe how organisms interact with one another and their environment
- Identify how humans impact life on earth

RECOMMENDED PRE-REQUISITES

Biology and the Citizen is a general education course for non-majors with no pre-requisites.

TEXTBOOK

Good news: your textbook for this class is available for free online! If you prefer, you can also get a print version at a very low cost. Your book is available in web view and PDF for free. You can also choose to purchase on iBooks or get a print version via the campus bookstore or from OpenStax on Amazon.com.

Info: Concepts of Biology from OpenStax, Print ISBN 1938168119, Digital ISBN 1947172034,
<https://openstax.org/details/books/concepts-biology> (<https://openstax.org/details/books/concepts-biology>)

CLASS PARTICIPATION

Online Lectures

Course material will be presented through videos posted to Canvas (https://usu.instructure.com/courses/643325/external_tools/16425). Follow the weekly schedule as to which videos to watch and when.

Chapter Learning Objectives

Each chapter has a set of learning objectives that can be found on Canvas or in the Microsoft OneNote Notebook. It is highly recommended that each student completes these and master these on their own. Exams will test student's mastery of these objectives.

Microsoft OneNote

Microsoft OneNote will be utilized during lectures to share information with the class. It is freely accessible for all USU students. To access the Class Notebook in OneNote click here.

(https://usu.instructure.com/courses/643325/external_tools/33551)

To login:

Username: A#@aggies.usu.edu (mailto:A#@aggies.usu.edu)

Password: Your USU password

SUCCESSFULLY NAVIGATING THIS COURSE

The most important task in this course is to master the learning objectives and communicate that mastery.

To do so, a student must:

1st- know what the learning objectives are by accessing them on Canvas.

2nd- do whatever it takes to learn the concepts. This may include reading the text, taking notes in class, completing practice questions, using any free content online, discussing the material with others, etc.

3rd- demonstrate mastery by completing quizzes, assignments, and exams.

ASSESSMENTS

Exams

Seven exams will be given throughout the semester opening on the day scheduled on the syllabus and be available in Canvas. Each exam will count for up to 50 points; this will vary slightly for each exam depending on the material. The lowest exam score will be dropped.

Quizzes

Quizzes will be given regularly in Canvas. These will be worth 5 points each. Quizzes will be open for 2 days. Missed quizzes will be counted for zero points. The lowest two scores will be dropped.

Assignments

Throughout the class other assignments will be given. These will be introduced in class and either turned in on Canvas or on paper. Each assignment will be tied to the lecture material and give the student opportunity to demonstrate understanding of a particular concept. These will be worth 5-10 points each. The lowest two scores will be dropped.

Chapter Objectives

Each chapter will have a set of learning objectives. Students will complete these and submit their answers in Canvas. These will be worth 5pts each.

Extra

Few opportunities will provide extra credit opportunities for students, which includes completing the course evaluation at the end of the semester for 5 points and other to be announced assignments.

GRADING

Final grades will be given according to the student's final percentage of all graded assignments and exams with the following breakdown.

A = 93-100% B+ = 87-89% C+ = 77-79% D+ = 67-69%

A- = 90-92% B = 83-86% C = 73-76% D = 60-66%

B- = 80-82% C- = 72-70% F = below 60%

- 7 exams - about 50 points each (lowest score dropped)

up to 300pts

• Quizzes - 5 points each	50pts
• Chapter Objectives - 5 points each	95pts
• Other Assignments – 5-10pts each	~100pts
Total points	~545pts

LATE WORK

All work will be submitted in Canvas by the due dates listed there. Students should contact Dr. Hatch if any issues arise concerning submitting course work.

UNIVERSITY POLICIES & PROCEDURES

COVID-19 CLASSROOM PROTOCOLS

In order to continue to provide a high standard of instruction at USU, and to limit the spread of COVID-19 during the pandemic, students are asked to follow certain classroom protocols during the fall 2020 semester. These protocols are in place not only for your safety but also the safety of the rest of the campus community. You will be asked to clean your desk area at the start of each class, sit in designated seats, wear face coverings, and follow dismissal instructions. There may be individual medical circumstances that prevent some students from using face coverings. These circumstances will be rare, but if they do exist, we ask that everyone be respectful. It is imperative that we each do our part so that on-campus instruction can continue.

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 Office of Equity (<https://equity.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 Office of Equity 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.

Students who are at a higher risk for complications from COVID-19 or who contract COVID-19 may also be eligible for 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
- Student Legal Services: <https://ususa.usu.edu/student-association/student-advocacy/legal-services> (<https://ususa.usu.edu/student-association/student-advocacy/legal-services>), (435) 797-2912, TSC 326,
- 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>)
- USU Academic Policies and Procedures (<http://catalog.usu.edu/content.php?catoid=4&navoid=546>)
- Academic Freedom and Professional Responsibility Policy (<http://www.usu.edu/hr/files/uploads/Policies/403.pdf>)

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.

MENTAL HEALTH

Mental health is critically important for the success of USU students. As a student, you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce your ability to participate in daily activities. Utah State University provides free services for students to assist them with addressing these and other concerns. You can learn more about the broad range of confidential mental health services available on campus at Counseling and Psychological Services (CAPS) (<https://counseling.usu.edu>).

Students are also encouraged to download the “SafeUT App” (<https://healthcare.utah.edu/uni/programs/safe-ut-smartphone-app>) to their smartphones. The SafeUT application is a 24/7 statewide crisis text and tip service that provides real-time crisis intervention to students through texting and a confidential tip program that can help anyone with emotional crises, bullying, relationship problems, mental health, or suicide related issues.