

# Biology for Science Majors II

## BIOL-1407

Summer II 2021 Sections N02 CRN-40036 4 Credits 07/12/2021 to 08/09/2021 Modified 07/11/2021

### Meeting Times

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We are completely online, with no face to face meetings. Office hours are via Zoom MW7P and TR 8AM

### Contact Information

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#### Professor: Ellen Ott-Reeves

Email: [ereeves@blinn.edu](mailto:ereeves@blinn.edu)

Office: Schwartz Rellis 430F

Phone: 209-8604

Website: [ecampus.blinn.edu](http://ecampus.blinn.edu)

Please use email or ecampus to communicate.

#### Office Hours

Monday, Wednesday, 7:00 PM to 7:30 PM, Zoom, ecampus content link

Scheduled MW 7 to 7:30PM TR 8to 8:30AM or email to set up a time. You may need to wait to be admitted to office hours if I am helping another student.

### Description

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3 lecture hours and 3 lab hours per week; 96 total contact hours. Credit: 4 semester hours.

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab activities reinforce lecture topics.

#### Requisites

**Prerequisite:** A student must be college ready in reading according to TSI college-ready standards.

**Recommended:** Successful completion of MATH 1314 - College Algebra or concurrent enrollment in higher-level mathematics.

### Core Curriculum Statement

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Through the Texas Core Curriculum, students will gain a foundation of knowledge in human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning. For details relating to this core course, please see:

<http://www.blinn.edu/academics/core-curriculum.html> (<http://www.blinn.edu/academics/core-curriculum.html>)

### Outcomes

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1. Describe modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
2. Describe phylogenetic relationships and classification schemes.
3. Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
4. Describe basic animal physiology and homeostasis as maintained by organ systems.
5. Compare different sexual and asexual life cycles noting their adaptive advantages.
6. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.
7. Apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
8. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.
9. Communicate effectively the results of scientific investigations.

## Materials

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**Textbook:** *Life: The Science of Biology*, 12<sup>th</sup> Edition, 2020. Sadava, Hillis, Heller, and Hacker. Sinauer Associates, Inc. Includes Achieve access

**Lab Manual:** *Biology 1407 Biology for Science Majors II Lab Manual, 2nd Edition*, 2020. Hutchinson, M. (Ed.), Hayden-McNeil Publishing.

## Course Requirements

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**Lecture Exams:** There will be 4 lecture exams each worth about 100 points. The average of lecture exams is 30% of your grade. The exact date of the tests are in the following calendar. Make-up tests will only be offered to those with excused absences and proper documentation, no exceptions. Excused absences in addition to those officially recognized by Blinn (see "Attendance" below) include: illness with a doctor's note, or death of a close family member with documentation provided by funeral home. Students must contact me before the following class period to schedule a make-up. If you know that you will need to miss a test prior to the test date, contact me ASAP so that we may plan accordingly. **An unexcused absence from an exam will result in a grade of zero. Cheating will result in 0 grade that will not be changed.** All Lecture Exams will use HonorLock Proctoring, then I review the video log. Ecampus Content lists proctoring requirements. Students may not be able to go back to a question, you must answer when presented. Students will not use phone, books, notes, calculator (other than Honorlock interface), any outside resources. Erasable whiteboard can be used. I review all Honorlock Proctoring videos.

**Laboratory Exams:** There will be 3 lab exams to total 20% of course grade. Lab exams will test student's ability to carry out specific tasks or techniques that relate to lab activities performed and/or the overall student learning outcomes for the laboratory. **Cheating will result in 0 grade that will not be changed.** All Lab Exams will use HonorLock Proctoring, then I review the video log. Ecampus content lists proctoring guidelines.

**Final Exam:** The Final is a common comprehensive final worth 20% of course grade. It will consist of at least 100 multiple choice questions. **Cheating will result in 0 grade that will not be changed.** The Final will use HonorLock Proctoring, then I review the video log. Ecampus content lists proctoring guidelines.

Achieve includes Macmillan Assignments for 10% of course grade. You must have access to Achieve, which comes with textbook access.

Labs are 10% of your grade, averaged from lab quizzes and dropboxes within ecampus modules for the labs.

Participation / Discussions are 10% of your grade for peer/peer engagement, and are found within ecampus modules.

## Evaluation

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Type	Weight	Notes
Lecture Exams	30%	Average of 4 lecture exams
Lab Exams	20%	Average of 3 lab exams
Final Exam	20%	Comprehensive, departmental final exam
Lab	10%	Quizzes, drop boxes, etc.
Participation	10%	Discussions
Achieve	10%	Publisher review web site

### Breakdown

The grading system of Blinn College recognizes the following grade values:

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = <59%

### How to Succeed in this Course

Science courses may be challenging and difficult. Most successful students spend two to four hours studying per day (in summer) for each credit hour of the course.

### Key Points

- Have access to all the materials and technology required for this course (webcam, microphone, computer, reliable internet, etc).
- Attend all classes. Each lecture builds on the previous lecture. Stay ahead of the material.
- Come to class prepared by reading the textbook and/or lab manual beforehand and taking notes before class to improve success.
- If you have a question during lecture, go ahead and ask it. Chances are that at least three other students have this same question.
- Know your deadlines and course policies by looking at the syllabus, instructor announcements, and eCampus dates, schedules, and news items.
- Work through lots of practice problems in addition to your homework.
- Form study groups with your peers.
- Ask your professors for help, visit office hours, and, if needed, request an appointment to see your instructor one-on-one.
  - Be prepared when you visit with your instructor and have questions related to content ready.
- Seek help from Blinn College's tutoring services, if needed.
- Be responsible for your own learning by actively engaging in the course.

## Blinn College Policies

(<http://pol.tasb.org/Home/Index/1204>), and the [Blinn College Administrative Regulations \(https://www.blinn.edu/administrative-regulations/\)](https://www.blinn.edu/administrative-regulations/) are applicable to this course.

[Specific information on civility, attendance, add/drop, scholastic integrity, students with disabilities, final grade appeal, alternative retailers, campus carry and proctoring arrangements and cost. \(http://www.blinn.edu/syllabus-policies/\)](http://www.blinn.edu/syllabus-policies/)

Notice of any action taken under these protocol and procedures, by Blinn College or its employees, may be delivered by hand, through the U.S. Postal Service, or electronically to the student's Blinn Buc e-mail account. Notice shall be deemed received upon actual receipt, on deposit in the U.S. Mail, or upon entering the information processing system used by Blinn College for Blinn Buc e-mail accounts, whichever first occurs.

Information about the changes Blinn has made to the May Minimester, Summer I, and Summer II semesters: [Back with Blinn \(https://www.blinn.edu/back-with-blinn/index.html\)](https://www.blinn.edu/back-with-blinn/index.html).

## \* Course Policies

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**Please read: [May Minimester, Summer I, and Summer II 2021 General Classroom Procedures. \(http://www.blinn.edu/back-with-blinn/course-policies.html\)](http://www.blinn.edu/back-with-blinn/course-policies.html)**

### Problem Resolution

If you have a complaint about your class, you should first request a conference with your instructor to try and resolve the problems or issues. If the problems or issues cannot be resolved at the instructor level, you should request a conference with Assistant Dean

Michelle McGehee  
Office: D-201 Villa Maria Campus  
Phone: 979-209-7378  
Email: [michelle.mcgehee@blinn.edu](mailto:michelle.mcgehee@blinn.edu)

### Laboratory Safety

All labs are virtual for this session. You need lab book, available at Blinn Bookstore (search online). Books are the same for all sections of Biol 1407. Ecampus course news also has link to purchase lab book directly from publisher.

### Proctoring

Ecampus content lists details of proctoring requirements. You must have computer with video and audio. You must use Chrome with Honorlock extension. If prior arrangements are made, you may be able to take exams on campus in testing center. Honorlock records each session, which I then review. No phones, no calculator other than Honorlock interface, no books, no notes, no other people in room or your grade is zero for cheating. You need a small mirror during exam to show me your work area and front of your computer. You may use an ERASABLE whiteboard, which you show me is blank at beginning and end of test. Failure to follow my proctoring policies results in grade of zero. I review all recordings after exams finish.

### Attendance, makeups

Blinn College requires attendance (details in Blinn policies above). For this completely online course, daily assignments that are turned in on time count toward your attendance; simply logging in to ecampus does not count toward attendance. During summer semester, missing 2 days as unexcused absences leads to you being administratively dropped from the course.

Ecampus content modules, schedules, etc., list due dates for work. For unexcused absences, late work is not accepted and grade will be zero. For excused absences, deadlines may be extended or grades left blank in the gradebook at professor's discretion.

## Schedule

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Biology 1407 Summer 1 2021 Completely Online

Tentative Schedule

Date	What's covered	Minutes	Contact Hours Daily
	* Lecture Assignments due Exam Day. Lab due day assigned.		
7/12	Orientation to ecampus and this course	60	
	Ch 19 Evolution textbook + ecampus lectures + Achieve resources & assignments	60	
	Lab 1 Intro, Guidelines + ecampus quiz & dropbox drawings	115	4.8
7/13	Ch 22 Speciation textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 2 Microscopy + ecampus quiz + dropbox drawings	115	4.8
7/14	Ch23/4 Earth Life History textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 3 fossils& molecular data ecampus quiz + dropbox	115	4.8
7/15	Ch 20 Phylogeny textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 4 natural selection & pop genetics + ecampus quiz	115	4.8
7/16	<b>Lecture Exam 1</b> using Chrome & Honorlock, Ch 19, 22, 23, 24, 20 + reviews	75 + 40	
	Lab 5 Cladistics + ecampus quiz + dropbox	115	4.8
7/19	Ch54 Species Interactions textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 6 Ecological Sampling + ecampus quiz & dropbox	115	4.8
7/20	Ch55&56 Communities & ecosystems Textbook + ecampus lectures +Achieve resources & assignments	120	
	Lab 7 Prokaryotes + ecampus quizzes	115	4.8
7/21	Ch24 Bacteria & Archae Textbook + ecampus lectures + Achieve resources & assignments	120	
	<b>Lab Exam 1</b> , Labs 1 to 7, ecampus review. Use Chrome & Honorlock.	75 + 40	4.8

7/22	Ch25 Eukaryote origins textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 8 Dichotomous Keys + ecampus quiz + dropbox	115	4.8
7/23	Lecture Exam 2 with Chrome & Honorlock + Reviews	75 + 45	
	Lab 9 Protists + ecampus quizzes	115	4.8
7/26	Ch28 Fungi textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 10 Fungi + ecampus quiz	115	4.8
7/27	Ch26 Seedless plants textbook + ecampus lectures + Achieve resources & assignments	120	
	Labs 11 & 12 seedle seed plants + ecampus quiz	115	4.8
7/28	Ch27 Seed plants textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 13 Angiosperms + ecampus quiz	115	4.8
7/29	Ch32 Plant Body textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab Exam 2, labs 8 to 13, ecampus reviews. Use Honorlock & Chrome	75 + 40	4.8
7/30	Lecture Exam 3 Chrome & Honorlock + Reviews	75 + 45	
	Last Day to Drop Summer II		
	Lab 14 Animal Diversity + ecampus quizzes	115	4.8
8/2	Ch 29 Animal origins textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 15 Animal Diversity 2 + ecampus quizzes	115	4.8
8/3	Ch30 Protostome animals textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab 16 Animal Diversity 3 + ecampus quizzes	115	4.8
8/4	Ch31 Deuterostome Animals textbook + ecampus lectures + Achieve resources & assignments	120	

	Lab 17 Tissues, organs & pig dissection + ecampus quiz	115	4.8
8/5	Ch38 Physiology, homeostasis. textbook + ecampus lectures + Achieve resources & assignments	120	
	Lab Exam 3 labs 14 to 17ecampus reviews. Use Chrome & Honorlock.	80 + 40	4.8
8/6	Lecture Exam 4 with Chrome & Honorlock., Review for Final exam	75	1.5
8/9	Final Exam with Chrome & Honorlock.	135	3
	<b>Total Contact Hours</b>  In Carnegie Hour System, 50 mins = 1 Contact Hour		96