



Biology for Science Majors II-12046

BIOL-1407

RT 2022 Section 0009 4 Credits 01/18/2022 to 05/15/2022 Modified 01/17/2022

Course Meetings

Course Modality

The course modality of this class is *In-Person*.

Faculty will hold class on-campus as per the assigned schedule

Attendance will be taken each class period.

Meeting Days

Tuesdays and Thursdays

Meeting Times

11AM to 1:50PM

Meeting Location

Stafford Scarcella S108 on Tuesdays, and W114 on Thursdays

Lab meeting

Tuesdays

Tuesday, 11:00 AM to 1:50 PM, S108 Stafford Scarcella Bldg

Lecture meeting

Thursday

Thursday, 11:00 AM to 1:50 PM, W114 Stafford Scarcella Bldg

Welcome and Instructor Information

Biology Professor: Dr. Leena Sawant

Email: leena.sawant@hccs.edu

Office: N105

Phone: 713 718 2395

What's Exciting About This Course

Biology is an endless adventure as there are constant new developments. This course covers the endless forms of life on earth, how organisms evolve, and the interaction between living organisms and how human activities affect this interaction. In addition, learning about the human body's complex systems enables you to make better decisions for your health and the health of others.

My Personal Welcome

Welcome to General Biology II—I am very pleased that you have chosen this course where I can be your guide. I will present the information in the most exciting way I know, so that you can understand the important topics/concepts and apply them now and hopefully throughout your life. As you read the chapters you will come across new ideas and facts that may challenge you, I am available to support you. The fastest way to reach me is by my HCC email. The best way to really discuss issues is in person and I am available to answer your questions. My goal is for you to walk out of the course with a better understanding of yourself and of human behavior. So please visit me or contact me by email whenever you have a question.

Preferred Method of Contact

Please use the "Inbox" feature in Canvas to send emails to me regarding anything related to your course. You may also email me directly at my HCC email address listed above using your HCC student email account (the one that starts with W followed by your student number). I cannot respond to emails from personal accounts such as gmail, hotmail, AOL, etc. I will respond to emails within 24-48 hours Monday through Friday. I will reply to weekend messages during the following week.

Office Hours

Monday, Wednesday, 2:00 PM to 3:00 PM, Virtual meeting on Cisco WebEx

Please email me to schedule an online meeting. You should use your Canvas inbox to email me.

Course Overview

Course Description

BIOL 1407 - Biology for Science Majors II (Lecture & Lab)

Credits: 4 (3 lecture, 3 lab). 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. Laboratory activities will reinforce the topics covered in lecture.

This course satisfies the Life and Physical Sciences or Component Area Option of the HCC core.

Requisites

Prerequisite: BIOL 1406 or Biol 1306 + 1106; Must be placed into college-level reading (or take GUST 0342 as a corequisite) and be placed into college-level writing (or take ENGL 0310/0349 as a corequisite).

Department Website

<https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/biology/>

Core Curriculum Objectives (CCOs)

BIOL 1407 satisfies the Natural Science requirement in the HCCS core curriculum. The HCCS Biology Discipline Committee has specified that the course address the following core objectives:

- (A) **Critical Thinking Skills:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information;
- (B) **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication;
- (C) **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions;
- (D) **Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal;

Student Learning Outcomes and Objectives

Program Student Learning Outcomes (PSLOs) for the Biology Discipline can be found at <https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/biology/>

Course Student Learning Outcomes (CSLOs)

Upon successful completion of BIOL 1407, students will:

1. Describe modern evolutionary synthesis, natural selection, population genetics, micro and macro evolution, and
2. Describe phylogenetic relationships and classification
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
5. Compare different sexual and asexual life cycles noting their adaptive
6. Illustrate the relationship between major geologic change, extinctions, and evolutionary
7. Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze
8. Use critical thinking and scientific problem-solving to make informed decisions in the
9. Communicate effectively the results of scientific

Departmental Practices and Procedures

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required.

As a student, it is your responsibility to:

- Attend class in person and/or online according to the assigned course modality
 - Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with the instructor.
 - Read and comprehend the textbook
 - Complete the required assignments and exams by the assigned deadlines
 - Ask for help when there is a question or problem
 - Keep copies of all paperwork, including the syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the [HCCS Student Handbook](#).

Instructional Materials and Resources

Instructional Materials:

1. Textbook (Pearson)
2. Lab Manual (McGraw Hill)

Text book: Campbell Biology 12th edition with mastering is available through your canvas course by clicking on the First Day Inclusive Access link.

Do not purchase the text book or access code for this course. Click on the “First Day (Inclusive Access) Course Material” link on your Canvas course. More instructions on how to register is under the Start Here module you have already paid for your course materials through the registration process. The cost of digital course materials for this class were included in your student bill and are guaranteed to be the lowest cost available to purchase your required materials. Your course materials for this class will be accessed digitally through this Canvas site. **NO** other purchase is necessary. For students who wish to have a printed copy of the text, an optional low cost print copy is available for purchase at the Houston Community College Bookstore. You have the right to opt-out and purchase your own course materials if you desire, prior to the official day of record, (please check the HCC academic calendar). It is NOT recommended that you Opt-Out, as these materials are required to complete the course. You can choose to Opt-Out on the first day of class, but you will be responsible for purchasing your course materials at the full retail price and access to your materials may be suspended.

Lab Manual: Biology Laboratory Manual 12th edition

You can access the lab manual by clicking on the McGraw Hill Connect link from your canvas course. The Lab Manual listed above is required for this course. It is an e Lab Manual integrated in Canvas. **Do not purchase the lab manual or access code for Connect as you have already paid for your course materials in tuition fees through the registration process.** The cost of digital course materials for this class were included in your student bill and are guaranteed to be the lowest cost available to purchase your required materials.

The [HCC Online Bookstore \(https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks\)](https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks) provides searchable information on textbooks for all courses. Check with your instructor before purchasing textbooks because the book might be included in your course fees.

Add Instructional Materials Here

Other Instructional Resources

Courseware: Pearson Mastering Biology for lecture section

This course uses Pearson Mastering Biology for homework assignments. You can access it by clicking on First Day Inclusive Access link on your canvas course. Please do not purchase the access code for Mastering Biology.

Courseware: McGraw Hill Connect for lab section

This course uses McGraw Hill Connect for lab assignments. You can access it by clicking on McGraw Hill link on your canvas course. Please do not purchase the access code for McGraw Hill Connect.

Campbell Biology 12th edition

Author: Urry, Cain, Wasserman, Minorsky

Publisher: Pearson

Edition: 12th

Availability: Canvas course - First Day Inclusive Access

Price: NA

Lab manual

Author: Vodopich and Moore

Publisher: McGraw Hill

Edition: 12th

Availability: Canvas course-McGraw Hill Connect

Price: NA

The Lab Manual listed above is required for this course. It is an e Lab Manual integrated in Canvas and the course does not require a printed version of the lab manual. **Do not purchase a book or access code for this course as you have already paid for your course materials in tuition fees through the registration process.** The cost of digital course materials for this class were included in your student bill and are guaranteed to be the lowest cost available to purchase your required materials.

✓ Course Requirements

Assignments, Exams, and Activities

| Type | Weight | Topic | Notes |
|---|--------|-------|--|
| Lecture exams | 40% | | Lecture Exams (40%): There will be 4 lecture exams. Lecture exams will consist of multiple-choice questions, fill in the blank, true or false and short answer questions. They will cover important concepts, figures and discussion from the text book. Exams will be online on Canvas and proctored using Respondus Lockdown Browser and Webcam. |
| Final Exam | 10% | | Final Exam (10%): The final exam will be comprehensive (it will cover all the chapters). There will be a departmental final that all students need to take. Final exam will be online on Canvas and proctored using Respondus Lockdown Browser and Webcam. |
| Online Canvas Quizzes | 10% | | Online quizzes on Canvas (10%): The online canvas quizzes are 10% of your grade. There are 4 unit quizzes and 2 quizzes, one on plants and the other one on ecology chapters. The due dates for the assignments and quizzes will not be extended. Please read the instructions before you start taking the assignments and quizzes. Missed assignments will receive a zero grade. |
| Homework Assignments on Mastering Biology | 10% | | Mastering Biology (10%): There will be mandatory online homework assignment on the Mastering Biology. You can access the assignments from Eagle Online Canvas by clicking on the "First Day Inclusive Access" link on the left column. Each student is responsible to register for mastering biology using an access code. This is also the way to access your online textbook. |
| Lab Exams | 20% | | Lab Exams (20%): There will be two lab exams for this course. Both labs exams will be online on Canvas and proctored using Respondus Lockdown Browser and Webcam. Lab Exam includes fill in the blanks, matching, short answer questions, identifying specimen, identifying slides, labeling of models or other material covered in the labs and a few multiple choice questions. |
| Lab Submissions | 10% | | Lab submissions (10%): Each student is responsible for completing their labs during the lab time and continue working and complete the lab submissions and Connect assignments by 11:59pm on the due date. Incomplete or late lab submission will not be graded and will receive a zero. |

Grading Formula

| Grade | Range | Notes |
|-------|----------|-------|
| A | 90-100 | |
| B | 80-89 | |
| C | 70-79 | |
| D | 60-69 | |
| F | below 60 | |

* Instructor's Practices and Procedures

Incomplete Policy

In this course, the purposes of the "I" (incomplete) grade is for students who are caught up and passing at the student withdrawal deadline, and then have a medical or other problem that prevents them from completing the course. If you are not passing at the student withdrawal deadline, you should drop yourself from the course, or you will likely earn an "F." An incomplete "I" grade will be given only if all of the following conditions are met:

- In order to receive a grade of Incomplete ("I"), you must have completed at least 85% of the work in the course.

- You can provide documentation showing why you should earn an incomplete, such as a doctor's note,
- You must be passing with a grade of "C" or
- You must request the incomplete in writing BEFORE April 28th, 2022
- In all cases, the instructor reserves the right to decline a student's request to receive a grade of

Missed Assignments/Make-Up Policy

Make-up Examination: There will be no make-up exams and final exams are mandatory unless there is an emergency. If you miss a lecture exam due to a medical or any other emergency, it will be replaced with the grade you earned on the final exam **only if you provide an official document:** doctor's note or any other official document with the reason for missing the exam within 24 hours. Please note: All students are required to take the final exam. Failure to take the final exam will result in an 'F' grade.

Missed Assignments or Quizzes: If you miss an assignment or quiz/exam you will receive a '0' grade on that assignment. If you have any technical problems or an emergency you can email me the same day and turn in the assignment the next day. Please provide a ticket issued by the Eagle Online Canvas Technical support for any technical issues. I will contact technical support to get more details on the technical emergency. Please note that I reserve the right to refuse to grade late assignments/quiz. Exams if you do not have a valid email or ticket from the technical support.

Academic Integrity

This instructor is committed to a high standard of academic integrity in the academic community. In becoming a part of the academic community, students are responsible for honesty and independent effort. Possible punishment for violating academic integrity while taking the proctored exams may include a grade of '0' or F on the exam/assignment.

Cheating includes

- Copying from another student's exam,
- Orally communicating or receiving answers during an exam,
- Having another person take an exam or complete a project or assignment,
- Using unauthorized notes, texts, or other materials for an exam, and
- Obtaining or distributing an unauthorized copy of an exam or any part of an

Plagiarism means the appropriation of another's work and the unacknowledged incorporation of that work in one's own written work offered for credit. Collusion mean the unauthorized collaboration with another person in preparing written work offered for credit. Possible punishments for academic dishonesty may include a grade of 0 or F on the particular assignment, failure in the course, and/or recommendation for probation or dismissal from the College System. Scholastic dishonesty may result in a referral to the Dean of Student Services.

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

<http://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>
[\(https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/\)](https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/)

Attendance Procedures

Attendance will be taken during the class meetings. You will be marked present, tardy or left early depending on the time you join and leave the class meetings. Your regular participation in the course is required. You are required to login into your Canvas course at least 3 times a week to access course material, and check the course announcements and emails regularly.

Student Conduct

Students are expected to conduct themselves appropriately while on College property or in an online environment. The instructor would institute established HCCS disciplinary action. Students who pose a threat to the safety of others will be subject to immediate withdrawal from the classroom. Please refer to the HCC Student Handbook.

Instructor's Course-Specific Information

All the exams will be considered towards final grade. All assignment grades will be available within 48 hours of completion of the assignment.

All the exams will be considered towards final grade:

Four Lecture exams = 40%

Discipline Final Exam (Comprehensive) = 10%

Homework assignments on Mastering Biology = 10%

Online Quizzes = 10%

Two laboratory exams = 20%

Lab. submissions and Connect assignments = 10%

Devices

You will need access to a **computer** to access your canvas course online. In addition to that you will have to install **Respondus Lockdown browser** and **webcam** so you can complete your lecture exams online on Canvas. Chromebooks cannot be used for proctored exams as it does not allow the use of Respondus Lockdown Browser.

Eagle online Problems Center: <http://www.hccs.edu/online/technical-support/>

Please go to this website if you have technical problems with using Canvas. You will find a 24/7 phone number you can call, an opportunity for live chat with a technician, and a FAQ section for students. Submit an online ticket stating your problem and email me any correspondence you have with the technician. Contact: 713.718.5275, Option 3

Computer Virus Protection

Computer viruses are, unfortunately, a fact. Using removable devices on more than one computer creates the possibility of infecting computers and diskettes with a computer virus. This exposes the computers of the college, your personal computer, and any others Version 2.1.FY2020 15 you may be using to potentially damaging viruses. The college has aggressive anti-virus procedures in place to protect its computers, but cannot guarantee that a virus might not temporarily infect one of its machines. It is your responsibility to protect all computers under control and use and ensure that each diskette you use, whenever or wherever you use it, has been scanned with anti-virus software. Since new viruses arise continually, your anti-virus software must be kept current. In addition, since no anti-virus software will find every virus, keeping backup copies is extremely important.

Faculty Statement about Student Success

Academic standards require a minimum of 3 study hours for every contact hour; meaning for a class that meets 3 hours per week, you need to budget and set aside a minimum of 9 hours each week to study and prep for your course success. Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook/lab manual
- Attending class in person and/or online
- Timely completion of assignments
- Participating in class activities
- Successful exam performance, including the mandatory final

There is no short cut for success in this course; it requires reading and studying the material using the course objectives as a guide.

Faculty-Specific Information Regarding Canvas

This course section will use Canvas (<https://eagleonline.hccs.edu> (<https://eagleonline.hccs.edu>)) to supplement in-class assignments, exams, and activities.

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

Social Justice Statement

Houston Community College is committed to furthering the cause of social justice in our community and beyond. HCC does not discriminate on the basis of race, color, religion, sex, gender identity and expression, national origin, age, disability, sexual orientation, or veteran status. I fully support that commitment and, as such, will work to maintain a positive learning environment based upon open communication, mutual respect, and non-discrimination. In this course, we share in the creation and maintenance of a positive and safe learning environment. Part of this process includes acknowledging and embracing the differences among us in order to establish and reinforce that each one of us matters. I appreciate your suggestions about how to best maintain this environment of respect. If you experience any type of discrimination, please contact me and/or the Office of Institutional Equity at 713-718-8271.

HCC Policies and Information

HCC Grading System

HCC uses the following standard grading system:

| Grade | Grade Interpretation | Grade Points |
|-------|---|--------------|
| A | Excellent (90-100) | 4 |
| B | Good (80-89) | 3 |
| C | Fair (70-79) | 2 |
| D | Passing (60-69), except in developmental courses. | 1 |
| F | Failing (59 and below) | 0 |
| FX | Failing due to non-attendance | 0 |
| W | Withdrawn | 0 |
| I | Incomplete | 0 |
| AUD | Audit | 0 |

| Grade | Grade Interpretation | Grade Points |
|-------|---|--------------|
| IP | In Progress. Given only in certain developmental courses. A student must re-enroll to receive credit. | 0 |
| COM | Completed. Given in non-credit and continuing education courses. | 0 |

Link to Policies in Catalog and Student Handbook

Here's the link to the HCC Catalog and Student Handbook: <https://catalog.hccs.edu/> (<https://catalog.hccs.edu/>)

In it you will find information about the following:

- Academic Information
- Academic Support
- Attendance, Repeating Courses, and Withdrawal
- Career Planning and Job Search
- Childcare
- disAbility Support Services
- Electronic Devices
- Equal Educational Opportunity
- Financial Aid TV (FATV)
- General Student Complaints
- Grade of FX
- Incomplete Grades
- International Student Services
- Health Awareness
- Libraries/Bookstore
- Police Services & Campus Safety
- Student Life at HCC
- Student Rights and Responsibilities
- Student Services
- Testing
- Transfer Planning
- Veteran Services

Link to HCC Academic Integrity Statement

<https://www.hccs.edu/student-conduct> (<https://www.hccs.edu/student-conduct>) (scroll down to subsections)

Campus Carry Link

Here's the link to the HCC information about Campus Carry:

<https://www.hccs.edu/campuscarry> (<https://www.hccs.edu/campuscarry>)

HCC Email Policy

When communicating via email, HCC requires students to communicate only through the HCC email system to protect your privacy. If you have not activated your HCC student email account, you can go [to HCC Eagle ID \(https://www.hccs.edu/email\)](https://www.hccs.edu/email) and activate it now. You may also use Canvas Inbox to communicate.

Office of Institutional Equity

Use the following link to access the HCC Office of Institutional Equity, Inclusion, and Engagement: <https://www.hccs.edu/eeo> (<https://www.hccs.edu/eeo>)

Ability Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including long and short term conditions, mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to <https://www.hccs.edu/accessibility> (<https://www.hccs.edu/accessibility>)

Title IX

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross
Director EEO/Compliance
Office of Institutional Equity & Diversity
3100 Main
(713) 718-8271
Houston, TX 77266-7517 or Institutional.Equity@hccs.edu (<mailto:Institutional.Equity@hccs.edu>)

<https://www.hccs.edu/titleix> (<https://www.hccs.edu/titleix>)

Office of the Dean of Students

Contact the office of the Dean of Students to seek assistance in determining the correct complaint procedure to follow or to identify the appropriate academic dean or supervisor for informal resolution of complaints.

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/> (<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/>)

Student Success

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as a guide.

Canvas Learning Management System

Canvas is HCC's Learning Management System (LMS), and can be accessed at the following URL:

<https://eagleonline.hccs.edu> (<https://eagleonline.hccs.edu>)

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

HCC Online Information and Policies

Here is the link to information about HCC Online classes, which includes access to the required Online Information Class Preview for all fully online classes: <https://www.hccs.edu/online/> (<https://www.hccs.edu/online/>)

Scoring Rubrics, Sample Assignments, etc.

Look in Canvas for the scoring rubrics for assignments, samples of class assignments, and other information to assist you in the course. <https://eagleonline.hccs.edu/> (<https://eagleonline.hccs.edu/>)

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students during office hours, and before and after class as required

As a student, it is your responsibility to:

- Attend class in person and/or online
- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me
- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the [HCCS Student Handbook](https://www.hccs.edu/studenthandbook) (<https://www.hccs.edu/studenthandbook>)

EGLS3

The EGLS³ ([Evaluation for Greater Learning Student Survey System](https://www.hccs.edu/egls3) (<https://www.hccs.edu/egls3>)) will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS³ surveys are only available for the Fall and Spring semesters. -EGLS3 surveys are not offered during the Summer semester due to logistical constraints.

<https://www.hccs.edu/egls3> (<https://www.hccs.edu/egls3>)

Housing and Food Assistance for Students

Any student who faces challenges securing their foods or housing and believes this may affect their performance in the course is urged to contact the Dean of Students at their college for support. Furthermore, please notify the professor if you are comfortable in doing so.

This will enable HCC to provide any resources that HCC may possess.

Student Resources

Tutoring

HCC provides free, confidential, and convenient academic support, including writing critiques, to HCC students in an online environment and on campus. Tutoring is provided by HCC personnel in order to ensure that it is contextual and appropriate. Visit the [HCC Tutoring Services \(https://www.hccs.edu/tutoring\)](https://www.hccs.edu/tutoring) website for services provided.

Libraries

The HCC Library System consists of 9 libraries and 6 Electronic Resource Centers (ERCs) that are inviting places to study and collaborate on projects. Librarians are available both at the libraries and online to show you how to locate and use the resources you need. The libraries maintain a large selection of electronic resources as well as collections of books, magazines, newspapers, and audiovisual materials. The portal to all libraries' resources and services is the HCCS library web page at [https://library.hccs.edu \(https://library.hccs.edu/\)](https://library.hccs.edu).

Supplementary Instruction

Supplemental Instruction is an academic enrichment and support program that uses peer-assisted study sessions to improve student retention and success in historically difficult courses. Peer Support is provided by students who have already succeeded in completion of the specified course, and who earned a grade of A or B. Find details at [https://www.hccs.edu/supplemental-instruction \(https://www.hccs.edu/supplemental-instruction\)](https://www.hccs.edu/supplemental-instruction)

Resources for Students:

[https://www.hccs.edu/covid19students \(https://www.hccs.edu/covid19students\)](https://www.hccs.edu/covid19students)

Basic Needs Resources:

[https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/ \(https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/\)](https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/)

Student Basic Needs Application:

[https://www.hccs.edu/basicneeds \(https://www.hccs.edu/basicneeds\)](https://www.hccs.edu/basicneeds)

COVID-19

Here's the link to the HCC information about COVID-19:

[https://www.hccs.edu/covid-19 \(https://www.hccs.edu/covid-19\)](https://www.hccs.edu/covid-19)

Sensitive or Mature Course Content

In this college-level course, we may occasionally discuss sensitive or mature content. All members of the classroom environment, from your instructor to your fellow students, are expected to handle potentially controversial subjects with respect and consideration for one another's varied experiences and values.

Instructional Modalities

In-Person (P)

Safe, face-to-face course with scheduled dates and times

Online on a Schedule (WS)

Fully online course with virtual meetings at scheduled dates and times

Online Anytime (WW)

Traditional online course without scheduled meetings

Hybrid (H)

Course that meets safely 50% face-to-face and 50% virtually

Hybrid Lab (HL)

Lab class that meets safely 50% face-to-face and 50% virtually

Copyright Statement

In order to uphold the integrity of the academic environment and protect and foster a cohesive learning environment for all, HCC prohibits unauthorized use of course materials. Materials shared in this course are based on my professional knowledge and experience and are presented in an educational context for the students in the course. Authorized use of course materials is limited to personal study or educational uses. Material should not be shared, distributed, or sold outside the course without permission. Students are also explicitly forbidden in all circumstances from plagiarizing or appropriating course materials. This includes but is not limited to publically posting quizzes, essays, or other materials. This prohibition extends not only during this course, but after. Sharing of the materials in any context will be a violation of the HCC Student Code of Conduct and may subject the student to discipline, as well as any applicable civil or criminal liability. Consequences for unauthorized sharing, plagiarizing, or other methods of academic dishonesty may range from a 0 on the specified assignment and/or up to expulsion from Houston Community College. Questions about this policy may be directed to me or to the Manager of Student Conduct and Academic Integrity.

Course Calendar

Syllabus Modifications

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

| When | Topic | Notes |
|---------|--|---|
| Week 1 | Ch. 22 Decent with Modification, Ch. 23 Evolution of Population | |
| Week 2 | Ch. 24 Origin of Species, Ch. 25 The History of life on Earth | Lab 18: Evolution and Natural Selection |
| Week 3 | Ch. 26 Phylogeny and the Tree of Life; Ch. 27 Bacteria and Archaea | |
| Week 4 | Ch. 28 Protists, Ch. 31 Fungi | Lab 24 Survey of Prokaryotes |
| Week 5 | Ch. 29 Plant Diversity I: How Plants Colonized Land Ch. 30 Plant Diversity II | Lab. 25-26 Survey of Protists |
| Week 6 | Ch. 32 An Overview of Animal Diversity. | Lab. 27 Survey of Kingdom Fungi |
| Week 7 | Ch. 33 An Introduction to Invertebrates | Lab. 28-31 Survey of the Plant Kingdom |
| Week 8 | Ch. 35 Vascular Plant Structure; Ch. 37 Soil and Plant Nutrition; Ch. 38 Angiosperm Reproduction and Biotechnology | Lab 32 Plant Anatomy: Vascular Plants |
| Week 9 | Spring Break | |
| Week 10 | Ch. 34 The Origin and Evolution of Vertebrates; Ch. 40 Basic Principles of Animal form and Function | Lab. 33 Plant Physiology: Transpiration Lab 41 Animal Tissue |
| Week 11 | Ch. 41 Animal Nutrition Ch. 42 Circulation and Gas Exchange | Lab. 36-40 Survey of the Animal Kingdom |
| Week 12 | Ch. 43 Immune System | Lab. 44 Human Biology Breathing. |

| When | Topic | Notes |
|---------|---|---|
| Week 13 | Ch. 45 Hormones and the Endocrine System; Ch. 44 Osmoregulation & Excretion | Lab.45 Human Biology: Circulation and Blood Pressure |
| Week 14 | Ch. 46 Animal Reproduction; Ch. 48 Neurons, Synapses and Signaling | |
| Week 15 | Ch. 49 Nervous System; Ch. 52 Introduction to Ecology and the Biosphere | Lab. 47 Vertebrate Anatomy. Lab.22 Population Growth |
| Week 16 | Ch. 54 Community Ecology; Ch. 55 Ecosystems and Restoration Ecology | |
| Week 17 | Final Exam | |

Additional Information

Biology Departmental/Program Information

Visit the [Biology Program Page \(https://learning.hccs.edu/programs/biology\)](https://learning.hccs.edu/programs/biology) on the HCC Learning Web for information about our faculty and courses. You will also find information about majoring in Biology.

The [Field of Study \(FOS\) Curriculum for Biology \(https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/biology/\)](https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/biology/) here at HCC covers the smallest and simplest organisms (microbiology) to the largest and most complex organisms (human anatomy and physiology, zoology, botany).

The [Associate of Science in Biology - Biology Majors & Premedical Programs \(https://catalog.hccs.edu/preview_program.php?catoid=3&poid=905\)](https://catalog.hccs.edu/preview_program.php?catoid=3&poid=905) FOS is intended primarily for students planning on transferring to a senior college or university to receive a baccalaureate degree in the following areas: computer science, engineering, health and natural sciences, or mathematics.

The [Associate of Science in Biology - Health Sciences Professions \(https://catalog.hccs.edu/preview_program.php?catoid=3&poid=906\)](https://catalog.hccs.edu/preview_program.php?catoid=3&poid=906) FOS is intended primarily for students planning on transferring to a senior college or university to receive a baccalaureate degree in the following areas: computer science, engineering, health and natural sciences, or mathematics. (Pre-Nursing, Pre-Radiologic Sciences, Pre-Clinical Laboratory Services)

Visit the [STEM Resources Page at HCC \(https://www.hccs.edu/resources-for/current-students/stem--science-technology-engineering--mathematics/\)](https://www.hccs.edu/resources-for/current-students/stem--science-technology-engineering--mathematics/): HCC has developed this site to provide information on STEM related programs and resources at HCC and other institution – to include scholarship information.

Process for Expressing Concerns about the Course

If you have concerns about any aspect of this course, please reach out to your instructor for assistance first. You can always request a meeting (virtual/ in person) to go over your concerns. If your instructor is not able to assist you, then you may wish to contact the Biology Department using this form.

[Biology Department Reporting Form \(https://forms.office.com/r/8BwrMbqCYB\)](https://forms.office.com/r/8BwrMbqCYB)

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