



Gen Biology I-22389

BIOL-1306

RT 2022 Section 1008 3 Credits 01/18/2022 to 05/15/2022 Modified 01/18/2022

Course Meetings

Course Modality

Online-On-A-Schedule (WS)

Meeting Days

Monday and Wednesdays

Meeting Times

9.30 AM- 10.50 AM

Meeting Location

Students will attend online each class period utilizing Canvas Eagle Online (through Cisco Webex)

Instructional Mode

WS

The course modality of this class is *Online on A Schedule*.

Faculty will hold class as per the assigned schedule, and students will attend online each class period utilizing Canvas Eagle Online (through Cisco Webex)

Attendance will be taken each class period.

Welcome and Instructor Information

What's Exciting About This Course

Biology is an endless adventure with constant new developments. Biology is the study of life. Perhaps, the first thing that comes to mind when you think about life on earth is humans and familiar animals. In this course, you will also learn about bacteria, fungi, plants and other life forms on earth. This course introduces students to the nature of life, including the chemical foundation of life; plants, animal, humans and bacterial cell structure and function; DNA, genetics and evolution. You will learn about the various techniques used to study biology; gene cloning, gene editing and the exciting field of Genetic Engineering.

My Personal Welcome

Welcome! —I'm delighted that you have chosen this course. Biology is an exciting field of study and I look forward to working with each of you this semester as you conquer the learning objectives for this course. By taking an active part in your education, you will make your academic experience much more rewarding and exciting!!

Preferred Method of Contact

Please use the Eagle online/Canvas messaging system. Only in the event that Canvas is offline, please email me directly at Pauline.ward@hccs.edu. I only respond to HCC email addresses (not Gmail, 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, 11:00 AM to 12:30 PM

Course Overview

Course Description

Credits: 3. Lecture only.

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

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

Requisites

Prerequisite: must be placed into college level reading and writing.

Department Website

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

Core Curriculum Objectives (CCOs)

BIOL 1306 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 completion of BIOL 1306, the student will be able to:

1. Describe the characteristics of life.
2. Explain the methods of inquiry used by scientists.
3. Identify the basic requirements of life and the properties of the major molecules needed for life.
4. Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
5. Describe the structure of cell membranes and the movement of molecules across a membrane.
6. Identify the substrates, products, and important chemical pathways in metabolism.
7. Identify the principles of inheritance and solve classical genetic problems.

8. Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
9. Describe the unity and diversity of life and the evidence for evolution through natural selection.
10. Develop critical thinking skills and habits of active collaborative learning.

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 as per the assigned course modality.
- 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 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

The [HCC Online Bookstore \(https://hccs.bnccollege.com/shop/hccs-central/page/find-textbooks\)](https://hccs.bnccollege.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.

- **Inclusive Access:** Please note that you do not need to purchase book or access code for this course as you have paid for your course materials including etextbook access during registration. 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.
- Students have the option to opt out of the program **prior to the Official day of Record**. Students who withdraw prior to the official day of record will have their course materials fee refunded within two day - two weeks after withdrawing.
- It is **NOT** recommended that you Opt-Out, as these materials are required to complete the course. If you do however choose to opt-out of these materials, you will not have access to the etextbook and Mastering homework platform through Canvas and you will be responsible for purchasing the course materials at the full retail price. 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. To Opt out, click on the First Day Inclusive Access LTI Link on your canvas shell, then click on the opt-out button and confirm. The HCC Bursars/Finance Department will credit your account in 2-14 days.
- If you withdraw prior to the official day of record, please opt out first so your account will be credited faster. *For more information about the HCC Textbook Savings program, contact our bookstore sm515@bnccollege.com or 713-528-0872.*
- **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: Campbell Biology 12th edition with mastering: Full volume or split volume

Campbell Biology w/ Mastering (full volume textbook with chapters for BIOL 1306 and BIOL 1407)	Urry	12	9780135855836
Campbell Biology vol.1 w/ Mastering (split volume text with chapters specifically for BIOL 1306)	Urry	12	9780137287567

Other Instructional Resources

Courseware

We will use Pearson *Mastering Biology* as part of this course. Detailed instructions on how to access Mastering are provided in your Canvas Course "Start Here" Module

✓ Course Requirements

Assignments, Exams, and Activities

Type	Weight	Topic	Notes
Class Participation	8		<p>Students must be present during the entirety of the lecture period and actively engaged. They must contribute fully to individual and group work which may include participation in quizzes, discussion posts, interactive exercises, breakout rooms, etc. Some of this work may need to be completed outside the class time.</p> <p>*** In addition to the activities above, <i>Honors College Biology Students</i> will complete a group project which will be 6% of their total class participation points.</p> <p>More details will be provided during class orientation and in your Canvas course.</p>
Post-Lab Quizzes	8		Post-Lab Chapter Quizzes will be due the evening before the corresponding Lecture Exam.
Mastering Homework	8		Mastering Homework assignments will be due weekly after each chapter is covered in lecture.
Lecture Exams	66		Exams are administered online using Respondus lockdownbrowser/webcam. There will be a total of four regular lecture exams (not including a compulsory Departmental final exam, see below). Each exam will contain a number of questions, which may include multiple choice, completion, matching, diagrams, definitions, and short essay type questions. Each regular lecture exam accounts for 22 % of your grade. Out of the four regular lecture exams, one exam grade will be dropped. If you take all of these four exams, your lowest grade automatically becomes your drop grade. If you miss an exam it automatically becomes your drop exam. If you miss a second exam, you will receive a grade of 0% for that exam.

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:

- You have earned at least 85% of the available points by the date that the "I" grade is
- You can provide documentation showing why you should earn an incomplete, such as a doctor's note, etc.
- You must be passing with a grade of "C" or
- You must request the incomplete in writing before the first missed assignment/exam due date
- In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete.

Missed Assignments/Make-Up Policy

NO MAKE-UP EXAMS will be given unless very exceptional circumstances. There must be a valid documented reason for a make-up exam and it must be pre-approved and verified by the instructor. Acceptable reasons include hospitalization or doctor's certification that the student was unfit to take the exam. Make-up requests must be submitted in writing, with the appropriate official documentation which will then be verified by the Instructor. Makeup exams must be taken by the time designated by the instructor. The format of the make-up exam may vary from the scheduled examination.

No extension of deadlines (or make-up) for any assignments or exams.

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. Failure to uphold these standards includes, but is not limited to, the following: plagiarizing written work or projects, cheating on exams or assignments, collusion on an exam or project, and misrepresentation of credentials or prerequisites when registering for a course. Cheating includes looking at or 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 exam. Plagiarism means passing off as his/her own the ideas or writings of another (that is, without giving proper credit by documenting sources). Plagiarism includes submitting a paper, report, or project that someone else has prepared, in whole or in part. Collusion is inappropriately collaborating on assignments designed to be completed independently. These definitions are not exhaustive.

When there is clear evidence of cheating, plagiarism, collusion, or misrepresentation, disciplinary action may include but is not limited to assigning a grade of zero or "F" for an exam or assignment; or assigning a grade of "F" for the course and filing a Maxient report with HCC. Additional sanctions, including being withdrawn from the course, program or expelled from school, may be imposed on a student who violate the standards of academic integrity.

Scholastic Dishonesty will 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):

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

Attendance Procedures

January 31	Official Day of Record for Regular 16-week Semester
April 4 by 4.30 pm	Withdrawal Deadline for Regular 16-week Semester

Attendance is mandated by the state. You are expected to attend the **entirety of the scheduled classes**. You are also responsible for materials covered during your absences. Instructors may be willing to consult with you for make-up assignments, but it is your responsibility to contact the instructor. Class attendance is monitored daily. If you have not attended by the **Official Date of Record**, you will be dropped by the HCC office. It is your responsibility to drop the course by the **Withdrawal Deadline**. The

Instructor may also drop a student for excessive absences, for example, a 3 credit-hour lecture class meeting 3 hours per week (48 hours of instruction), you can be dropped after 6 hours of absence. However, it is the Student's responsibility to drop the course by the Withdrawal Deadline if that is their decision.

Departments and programs governed by accreditation or certification standards may have different attendance policies. Administrative drops are at the discretion of the instructor. Failure to withdraw officially can result in a grade of "F" or "FX" in the course.

Students who stopped attending class: The Department of Education now requires that we make a distinction between an "earned" grade of "F" (i.e. for poor performance) and a grade of "F" due to a lack of attendance. To make that distinction, we have created a new grade, "FX" for failure due to lack of attendance. Faculty will not be allowed the option of submitting a grade change form changing the grade of FX (or F) to W, if the student stopped attending class. Failure to alert instructor of missed exams and lack of attendance will result in this

Student Conduct

Students are expected to conduct themselves as adults. This includes courteous and respectful behavior towards instructor and classmates, including in an online environment. Disruptive behavior or any behavior that interferes with any educational activity being performed by the instructor will not be allowed. Additionally, no student may interfere with his/her fellow students' right to pursue their academic goals to the fullest in an atmosphere appropriate to a community of scholars. Disruptive behavior may result in removal from the class. Students are expected to respect the learning rights of all others in the physical classroom and online. Individual conversations, chatting online, text messaging, arriving to class late, sleeping during class, working on online assignments, playing computer games, surfing the internet and studying for another class during classroom time are unacceptable behaviors. Disruptive behavior may result in removal from the class and/or a referral to the Dean of Student Services.

Instructor's Course-Specific Information

Course material posted online and handed out in class is for your personal use only. It is not permissible to share or distribute any of this material without my prior consent. It is your responsibility to meet the course deadlines. Please take note of exam, quizzes and assignment deadlines. It is also your responsibility to check CANVAS daily for any new announcements or updates. You can set up in your CANVAS course settings to have notifications of new announcements sent to your phone or email.

Devices

Cellphone, Laptop, Camera, Recording and/or other Electronic Devices are prohibited in classrooms, laboratories, faculty offices, and other locations where instruction (online & in person), tutoring, or testing occurs, unless directed otherwise by the Instructor. If your work or family situation requires that you be available via phone, your phone can be on vibrate mode and you can take the call during a break or you can exit the class to review the call. Notify your friends, family, employers, and anyone else who regularly contacts you that you will be in class and that you should be contacted only when necessary. The taking of calls during class is not only disruptive but it is also discourteous to classmates and the instructor. No electronic devices permitted during the exam.

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.

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
- Attending class
- Timely completion of assignments
- Participating in class activities
- Frequent retrieval of course material and practice testing
- Successful exam performance
- Attending HCC Tutoring if needed
- Forming study groups

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

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

Grade	Grade Interpretation	Grade Points
AUD	Audit	0
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/>)

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- 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.

Week of	Schedule
1. Jan 19	Chapter 1: Evolution, the themes of Biology & Scientific Inquiry Syllabus Quiz and Introductions due Sun Jan 23 Mastering HW 1 due Sun Jan 23
2. Jan 24	Chapter 2 The Chemical Context of Life. Chapter 3. Water and Life Mastering HW 2-3 due Sun Jan 30
3. Jan 31	Chapter 4. Carbon and the Molecular Diversity of Life Chapter 5. The Structure and Function of Large Biological Molecules Mastering HW 4-5 due Sun Feb 6 Quizzes 1-5 due Sun Feb 6
4. Feb 7	Mon Feb 7: EXAM #1 (Chaps 1-5) Chapter 6 A Tour of the Cell Mastering 6 due Sun Feb 13

5. Feb 14	<p>Monday Feb 14: Presidents Day-NO CLASS</p> <p>Chapter 7 Membrane Structure and Function</p> <p>Mastering HW 7 due Sun Feb 21</p>
6. Feb 21	<p>Chapter 8 An Introduction to Metabolism</p> <p>Mastering HW 8 due Sun Feb 27</p>
7. Feb 28	<p>Chapter 9 Cellular Respiration and Fermentation</p> <p>Chapter 10 Photosynthesis</p> <p>Mastering HW 9-10 due Mar 6</p> <p>Post-Chapter Quizzes 6-10 due Sun Mar 6</p>
8. Mar 7	<p>Mon Mar 7: EXAM #2 (Chaps 6-10)</p> <p>Chapter 11 Cell Communication</p> <p>Mastering HW 11 due Sun Mar 13</p>
9. Mar 14	<p>SPRING BREAK: NO CLASS</p>
10. Mar 21	<p>Chapter 12 The Cell Cycle</p> <p>Chapter 13 Meiosis and Sexual Life Cycles</p> <p>Mastering HW 12-13 due Sun Mar 27</p>
11. Mar 28	<p>Chapter 14 Mendel and the Gene Idea</p> <p>Mastering HW 14 due Sun Apr 3</p>
12. Apr 4	<p>Chapter 15: The Chromosomal Basis of Inheritance</p> <p>Mastering HW 11-15 due Tue Apr 5</p> <p>Post-Chapter Quizzes 11-15 due Tue Apr 5</p> <p>Wed Apr 6: EXAM #3 (Chaps 11-15)</p>
13. Apr 11	<p>Chapter 16 The Molecular Basis of Inheritance</p> <p>Mastering HW 16 due Sun Apr 17</p>
14. Apr 18	<p>Chapter 17 Gene Expression: From Gene to Protein</p> <p>Mastering HW 17 due Sun Apr 24</p>
15. Apr 25	<p>Chapter 18 Regulation of gene Expression</p> <p>Chapter 19 Viruses</p> <p>Mastering HW 18-19 due Sun May 1</p>

16. May 2	<p>Chapter 20 DNA Tools and Biotechnology</p> <p>Mastering HW 20 due Tue May 3</p> <p>Post-Chapter Quizzes 16-20 due Tue May 3</p> <p>Wed May 4: EXAM #4 (Chaps 16-20)</p>
17. May 9	<p>Mon May 9: 9 AM Departmental Final Comprehensive (Chaps 1-20) Exam (Mandatory)</p>

Important Dates	
January 18	Classes begin
January 31	Official Day of Record
February 21	Presidents Day Holiday
March 14-20	Spring Break
April 4	Last Day for Student Withdrawal (4:30pm)

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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