# **Biology Non-Science Majors I-21139**

**BIOL-1308** 

RT 2022 Section 5002 3 Credits 08/22/2022 to 12/11/2022 Modified 08/29/2022

# Course Meetings

BIOL 1308-5002 (21139) Biology Non-Science Majors I (Lecture) 0 TuTh 9:05AM - 10:25AM To Be Announced Aug 22, 2022-Dec 11, 2022

#### Instructional Mode

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The course modality of this class is In-Person.

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

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# Welcome and Instructor Information

**Course Description** 

Credits: 3 (3 lecture). Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. This course satisfies the Life and Physical Sciences or Component Area Option of the HCC core. Requisites

Prerequisite: Must be placed into GUST 0342 (or higher) in reading and ENGL 0310/0349 (or higher) in writing.

**Biology Department Website** 

https://www.hccs.edu/programs/areas-of-study/science-technolog

# Course Overview

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

# Ocore Curriculum Objectives (CCOs)

BIOL 1308 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:

- Critical Thinking: Students will demonstrate the ability to engage in inquiry and analysis, evaluation and synthesis of information, and creative thinking by completing a written assignment such as a book report, research paper, or essay.
- Communication Skills: Students will demonstrate effective development, interpretation and expression of ideas through written, oral, and visual communication by completing a written assignment such as a book report, research paper, or essay.
- Quantitative and Empirical Literacy: Students will demonstrate the ability to draw conclusions based on the systematic analysis
  of topics using observation, experiment, and/or numerical skills by completing textbook reading assignments, completing
  assignments, and answering questions on quizzes and exams that pertain to Course Student Learning Outcomes below.
- Teamwork: Students will demonstrate the ability to consider different points of view and to work effectively with others to support
  a shared purpose or goal by completing textbook reading assignments, completing assignments, and answering questions on
  quizzes and exams that pertain to Course Student Learning Outcomes below

# Student Learning Outcomes and Objectives

Program Student Learning Outcomes (PSLOs) for the Biology Discipline can be found at <a href="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/</a>

**Course Student Learning Outcomes (CSLOs)** 

Upon successful completion of this course, students will:

- 1. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.
- 2. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis.
- 3. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
- 4. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
- 5. Describe karyotyping, pedigrees, and biotechnology and provide an example of the uses of each.
- 6. Identify parts of a DNA molecule, and describe replication, transcription, and translation.
- 7. Analyze evidence for evolution and natural selection.

#### **Learning Objectives**

- 1. Consistently demonstrates knowledge of scientific terminology, and its complete use in living organisms
- 2. Consistently able to demonstrate knowledge of principles of living organisms and complete knowledge of physical and chemical properties of life.
- Able to explain function at the level of molecules and cells, to include biological macromolecules, cellular organization, communication, and cell division.
- 4. Able to explain and apply the knowledge of energy transformations.
- 5. Able to explain the metabolic reactions associated with cellular activities, such as the processes of glycolysis, fermentation, cellular respiration, and photosynthesis.
- 6. Consistently able to explain the molecular sequence of events involved in the flow and expression of genetic information in prokaryotic and eukaryotic cells.
- 7. Able to explain the process of DNA replication and RNA transcription, protein biosynthesis and mutation.
- 8. Consistently demonstrates knowledge of Mendelian genetics.
- 9. Proficiency in performing and interpreting genetic problems.
- 10. Able to describe advances made in the understanding of genes and chromosomes since Mendel.
- 11. Consistently differentiates between appropriate and inappropriate experimental design. Takes appropriate steps or explains appropriate steps independently and correctly.

# Instructional Materials and Resources

### **Instructional Materials**

The <u>HCC Online Bookstore (https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks)</u> 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

Required resources:

TEXTBOOK: Campbell Essential Biology with Physiology with Modified MasteringBiology Volume 1, Package for Houston Community College.

ISBN: 1323751793 // 9781323751794

ONLINE HOMEWORK AT PEARSON (HIGHLY RECOMMENDED): This is a web-based suite that develops adaptive learning content and applications, deploys that material to students and analyses how students learn from their responses to the material. This website requires an access code which comes packaged free with the new textbook or can be purchased online using credit card.

LEARNING WEB: Assignments may be posted on the Learning web found at the following link:

http://learning.hccs.edu/faculty/mathew.jacob

Canvas Login (HIGHLY RECOMMENDED for In Person classes, REQUIRED for ONLINE CLASSES): https://hccs.instructure.com or eagleonline.hccs.edu. The main course content is on Canvas. You will use the standard textbook to study different topics required per the course curriculum recommended by the Texas Board of Higher Education and HCC course curriculum committee

# Instructor's Practices and Procedures

# **Incomplete Policy**

**Incomplete Policy** 

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

On request

## **Academic Integrity**

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)

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### **Attendance Procedures**

Attendance Policy:

You are expected to attend all lecture classes and labs regularly. 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. Although it is your responsibility to drop a course for nonattendance, the instructor has the authority to drop you for excessive absences. You may be dropped from a course after accumulating absences in excess of 12.5 percent of the total hours of instruction (lecture and lab). For example:

For a 3 credit-hour lecture class meeting 3 hours per week (48 hours of instruction), you can be dropped after 6 hours of absence.

For a 4 credit-hour lecture/lab course meeting 6 hours per week (96 hours of instruction), you can be dropped after 12 hours of absence

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.

#### **Student Conduct**

#### **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 requiring you to retake or resubmit an exam or assignment, assigning a grade of zero or "F" for an exam or assignment; or assigning a grade of "F" for the course. Additional sanctions including being withdrawn from the course, program or expelled from school may be imposed on a students who violate the standards of academic integrity.

# Instructor's Course-Specific Information

**Exams and Grading:** 

Lecture exams (70% of the grade):

Final Exam (10% of the grade):

Mastering homework assignments (20% of the grade)

## **Faculty Statement about Student Success**

**HCC Course Withdrawal Policy** 

Beginning Fall 2007, the State of Texas imposes penalties on students who drop courses excessively. Students are limited to no more than SIX total course withdrawals throughout their educational career at a Texas public college or university.

To help you avoid having to drop/withdraw from any class, contact your DE professor regarding your academic performance. You may also want to contact your DE counselor to learn about helpful HCC resources (e.g. online tutoring, child care, financial aid, job placement, etc.).

HOW TO DROP

If a student decides to drop or withdraw from a class upon careful review of other options, the student can drop online prior to the deadline through their HCC Student Center.

HCC counselors and/or instructors may drop students for excessive absences without notification (see Class Attendance below).

Students should check HCC's Academic Calendar by Term for drop/withdrawal dates and deadlines.

To help students avoid having to drop/withdraw from any class, HCC has instituted an Early Alert process by which your professor will "alert" you and counselors that you might fail a class because of excessive absences and/or poor academic performance. You should visit with your professor or a counselor to learn about what, if any, HCC interventions might be available to assist you – online tutoring, child care, financial aid, job placement, etc. – to stay in class and improve your academic performance.

EGLS3 -- Evaluation for Greater Learning Student Survey System

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and division chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.

International Students

Receiving a W in a course may affect the status of your student Visa. Once a W is given for the course, it will not be changed to an F because of the visa consideration. Since January 1, 2003, International Students are restricted in the number of distance education courses that they may take during each semester. ONLY ONE online/distance education class may be counted towards the enrollment requirement for International Students per semester. Please contact the International Student Office at 713-718-8520 if you have any questions about your visa status and other transfer issues.

# **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.

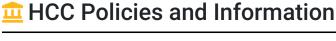
Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

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#### 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.



# **Our Vision**

Houston Community College shapes the future for all students with innovative, affordable, timely, responsive, and continuously improving educational programs and services. Partnered with the communities we serve, we take a defining role in regional economic, workforce, and social development.

https://www.hccs.edu/about-hcc/ (https://www.hccs.edu/about-hcc/)

# **HCC Grading System**

HCC uses the following standard grading system:

Grade	Grade Interpretation	Grade Points
А	Excellent (90-100)	4
В	Good (80-89)	3
С	Fair (70-79)	2

Grade	Grade Interpretation	Grade Points
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
1	Incomplete	0
AUD	Audit	0
IP	In Progress. Given only in certain developmental courses. A student must re-enroll to receive credit.	0
СОМ	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: <a href="https://catalog.hccs.edu/">https://catalog.hccs.edu/</a> (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) 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: <a href="https://www.hccs.edu/eeo">https://www.hccs.edu/eeo</a> (<a href="https://www.hccs.edu/eeo">https://www.hccs.edu/eeo</a>)

#### **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 <a href="https://www.hccs.edu/accessibility">https://www.hccs.edu/accessibility</a>)

#### 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: <a href="https://www.hccs.edu/online/">https://www.hccs.edu/online/</a> (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 <u>HCCS Student Handbook</u> (https://www.hccs.edu/studenthandbook)

# **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.

#### 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.

#### EGLS3

The EGLS<sup>3</sup> (Evaluation for Greater Learning Student Survey System (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. EGLS<sup>3</sup> 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**

If you are experiencing any hardship related to food, shelter, mental health, or other basic needs areas, please visit the Basic Needs page for resources (<a href="https://www.hccs.edu/cares">https://www.hccs.edu/cares</a> (<a href="https://www.hccs.edu/cares">https://www.hccs.edu/cares</a>). You have the option to take the Basic Needs Questionnaire and ask to be contacted by a counselor for additional assistance or support (<a href="https://www.hccs.edu/basicneeds">https://www.hccs.edu/basicneeds</a> (<a href="https://www.hccs.edu/basicneeds">https://www.hccs.edu/basicneeds</a>)). Furthermore, please notify the professor if you are comfortable doing so.

#### **Student Resources**

#### **Tutoring**

HCC provides free and convenient academic support, in a large variety of subjects, to HCC students in both an online environment and in-person on campus. Tutoring is provided by HCC personnel in order to ensure that it is appropriate. Visit the HCC Tutoring Services website for more information at <a href="https://hccs.edu/tutoring">https://hccs.edu/tutoring</a> (https://hccs.edu/tutoring).

#### 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 <a href="https://library.hccs.edu/">https://library.hccs.edu/</a>).

### 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 <a href="https://www.hccs.edu/supplemental-instruction">https://www.hccs.edu/supplemental-instruction</a>)

#### **Resources for Students:**

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/)

#### **Student Basic Needs Application:**

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)

#### **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

# **Example 2** 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.

#### Course Schedule:

Week Chapters Topics to be covered

- 1 1 Orientation, Introduction: Biology Today
- 22, 3 Essential Chemistry for Biology, The molecules of life,
- 3 EXAM 1 from ch 1-3
- 4 4 A tour of the Cell
- 5 5 The Working Cell
- 6 6 Cellular Respiration, Obtaining energy from food
- 7 EXAM 2 from ch 4-6
- 8 7 Photosynthesis: Using Light to make food
- 9 8 Cellular Reproduction: Cells from Cells
- 10 9 Patterns of Inheritance
- 11 EXAM 3 from ch 7-9
- 12 10 The Structure and Function of DNA
- 13 11 How Genes are Controlled
- 14 12 DNA Technology
- 15 13 How Populations Evolve

EXAM 4 from ch 10-13

# Additional Information

# **Biology Departmental/Program Information**

Visit the <u>Biology Program Page (https://learning.hccs.edu/programs/biology)</u> 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/) here at HCC covers the smallest and simplest organisms (microbiology) to the largest and most complex organisms (human anatomy and physiology, zoology, botany).

The <u>Associate of Science in Biology - Biology Majors & Premedical Programs (https://catalog.hccs.edu/preview\_program.php?catoid=3&poid=905)</u>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) 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 <u>STEM Resources Page at HCC (https://www.hccs.edu/resources-for/current-students/stem--science-technology-engineering--mathematics/)</u>: 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)

Department Chair: Dr. Shadi Kilani

Department Email: hcc.biology@hccs.edu

**Department Phone: 713 718 5587**