Instructional Services · Life and Natural Sciences · Biology

Biology Non-Science Majors I-23589

BIOL-1308

DL1 2022 Section 159 3 Credits 01/24/2022 to 05/15/2022 Modified 01/24/2022

Course Meetings

Course Modality

This course is designated as Dual Credit and will meet In-Person.

Meeting Days

Tuesdays and Fridays

Meeting Times

9:05 - 11:00 AM

Meeting Location

Thurgood Marshall High - Room T-107

Instructional Mode

P

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.

Welcome and Instructor Information

Instructor: Aaron D Palmer M.S.

Email: aaron.palmer@hccs.edu
Website: https://learning.hccs.edu/faculty/aaron.palmer (https://learning.hccs.edu/faculty/aaron.palmer)

What's Exciting About This Course

Biology is the study of life. Learning and understanding Biology helps you know:

1. How and why things happen in the physical world
2. More about yourself and your daily experiences.
3. How to live a healthier life and improve the lives of others.
4. How different organisms interact with each other, as well as our impact on them.

My Personal Welcome

Welcome to General Biology—I'm delighted that you have chosen this course! One of my passions is to know as much as I can about human physiology, and I can hardly wait to pass that on. I will present the information in the most exciting way I know, so that you can grasp the concepts and apply them now and hopefully throughout your life.

As you read and wrestle with new ideas and facts that may challenge you, I am available to support you. The fastest way to reach me is by my HCC Canvas portal. The best way to really discuss issues is in person or to schedule a meeting time to tackle the questions. My goal is for you to walk out of the course with a better understanding of cell biology. So please visit me or contact me through Canvas whenever you have a question.

Preferred Method of Contact

Canvas Inbox or HCC email (aaron.palmer@hccs.edu)

Office Hours

Upon Scheduled Request
Online (Kaltura/WebEx)

Instructor: Aaron D. Palmer M.S.

Email: aaron.palmer@hccs.edu
Office: Southwest
Website: https://learning.hccs.edu/faculty/aaron.palmer (https://learning.hccs.edu/faculty/aaron.palmer)

Course Overview

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-technology-engineering--math/biology/

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

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.
3. 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.
12. Able to distinguish a theory from a hypothesis.

📒 Instructional Materials and Resources

Instructional Materials

The HCC Online Bookstore (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.

Inclusive Access Program:

This course participates in the Houston Community College First Day Program. A discount has been applied to the required digital course materials. The discounted charge has been added to students' tuition and fee bills.

Students will access course materials through a link in Canvas. Instructions for opting out of the HCC First Day Program are also posted in Canvas. Students who opt out will still be responsible for obtaining required course materials.

Essential Biology with Physiology

Author: Simon et al.
Publisher: Campbell
Edition: 6th/7th
ISBN: 9780134819426

Availability: Canvas/HCC Bookstore
Price: N/A

Other Instructional Resources

Pearson Mastering

Platform provides access to assignments and supplemental resources to assist students in grasping the information. This is also a part of the Inclusive Access program and can be accessed in the same manner as the digital textbook in Canvas.

OpenStax

Here is the link to get free access to a digital version of the text for free. Please use this resource as needed as no assignments will be assigned from this e-book. Follow the link below:

OpenStax Biology (https://openstax.org/details/books/biology-2e)

Optional

✔ Course Requirements

Assignments, Exams, and Activities

Type	Weight	Topic	Notes
Exams	40%		4 total In-Person semester exams
Quizzes	20%		4 total In-Person quizzes
Homework	20%		To include various activities that can be accessed through Pearson Mastering (Canvas) such as worksheets and textbook exercises.
In-Class Activities	10%		To include various activities that can be accessed through Wiley Course Resources (Canvas) such as case studies and anatomy exercises.
Final Exam (Cumulative Departmental)	10%		To be administered via Canvas and the Lockdown Browser
Extra Credit			Could be assigned throughout the semester as different exercises.

Grading Formula

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

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

Instructor's Practices and Procedures

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

There will be no make-ups for exams however the lowest exam grade will be dropped (not counting the final exam) and reflected in the final cumulative grade.

Assignments will be due at their designated due dates. Late assignments maybe assessed a late grade.

Academic Integrity

Academic dishonesty: Academic dishonesty will result in disciplinary action, including dismissal. If cheating is discovered during assessments an "F" with zero points will be administered for the exam/quiz/homework/lab grade. If this should become a persistent problem, the student will receive an "F" for the course. Please be aware that it is VERY difficult to pass the course with a zero point exam score. Please see page 78 of the Student Handbook for more details.

https://www.hccs.edu/resources-for/current-students/student-handbook/#d.en.293830

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/)

Attendance Procedures

Attendance will be recorded at the beginning of each class period. Students are responsible for information missed due to absence. For any classes missed due to absence, it is the responsibility of the student to complete them at later scheduled meeting times. All graded assignments (with the exception of lab quizzes and practicals) will have a final due date of May 15 to accommodate this.

Absence from class does not excuse a student from class work or exams missed. A student who misses four or more classes is subject to administrative withdrawal. Absences are excused in cases of illness verified by a physician, the death of an immediate family member or a problem verified by a police report or court order.

Student Conduct

Appropriate student conduct is expected at all times. Disruptive behavior will result in Security. Please see page 78 of the Student Handbook for more details.

https://www.hccs.edu/resources-for/current-students/student-handbook/#d.en.293830

Instructor's Course-Specific Information

Overall Course Design: This course is largely self-paced but based on the direction of lecture by the professor. You are responsible for learning the information presented in the 1st 13 chapters of your text, over which you will be assessed in 4 different exams. You are to complete the respective material (including any applicable HW or assignments, etc.) all on your own time schedule during time outside of lecture. This design is such so that you can complete your learning and mastery of the material within the regular 16 weeks.

COMMUNICATION: When you access the Canvas course, please **always check the Professor Announcements** forum link – the most up-to-date information will be posted there, and **you are responsible** for it.

We will communicate through the Professor Announcements on the Canvas course system, and by using the "Inbox" email feature found there. Email inquiries will be checked and answered once daily; however, I do not check email on Saturdays or Sundays – any emails generated on the weekend have no guarantee that they will be checked before Monday. It might be normal that I only answer emails once daily – please be patient. NOTE: In every email sent to me via @hccs.edu, please include your course and CRN number!!!

Devices

It is encouraged that students use their laptop or other personal electronic devices during regular class only. Absolutely no phone or other personal electronic devices are to be used during lab practical exams. This includes making or taking a call, reviewing messages, texting, playing games, checking email, surfing the web, anything that involves a phone or other personal electronic device. 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 our regular scheduled breaks 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. STUDENTS ARE NOT PERMITTED TO HANDLE CALLS DURING EXAMS. Phones and bags will be placed in front of the class during each exam.

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 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
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) 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)

EGLS3

The EGLS^3 (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^3 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) 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/).

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)

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)

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	Topic
1	Syllabus
2	Chapter 1: Introduction: Biology Today Chapter 2: Essential Chemistry for Biology
3	Chapter 3: The Molecules of Life Chapter 4: A Tour of the Cell
4	Exam 1
5	Chapter 5: The Working Cell
6	Chapter 6: Cellular Respiration: Obtaining Energy from Food
7	Chapter 7: Photosynthesis: Using Light to Make Food Exam 2
8	Chapter 8: Cellular Reproduction: Cells from Cells
9	Chapter 9: Patterns of Inheritance
10	Chapter 10: The Structure and Function of DNA
11	Exam 3
12	Chapter 11: How Genes Are Controlled
13	Chapter 12: DNA Technology
14	Chapter 13: How Populations Evolve
15	Exam 4
16	Final Exam

Additional Information

Biology Departmental/Program Information

Visit the **Biology Program Page (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/) 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)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 **STEM Resources Page at HCC (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)

Department Chair: Dr. Shadi Kilani

Department Email: hcc.biology@hccs.edu

Department Phone : 713 718 5587