



# Physical Geology-11965

## GEOL-1403

RT 2022 Section 004 4 Credits 08/23/2021 to 12/12/2021 Modified 08/22/2021

### Course Meetings

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#### Meeting Days

Online and on TTH

#### Meeting Times

8:00-10:50 AM

#### Meeting Location

Stafford Scarcella Center Rm S114

### Welcome and Instructor Information

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#### Instructor: Dr. Peter Azah Abanda

Email: [peter.abanda@hccs.edu](mailto:peter.abanda@hccs.edu)

Office: WLC Faculty Lounge

Phone: 713-718-6764

#### What's Exciting About This Course

The purpose of this Physical Geology course is to enable students to use fact and observation to make interpretations about geologic processes operating today and in the past. Students will be introduced to the theory of plate tectonics, explaining many processes such as mountain building, volcanism, and Earthquakes happening. They will use observations on earth materials like minerals and rocks. Other questions to be addressed, deal with the different earth systems and their interactions that may affect the landscape, modify the landscape.

#### My Personal Welcome

Welcome to the course!

Welcome to Physical Geology—I'm glad that you have chosen this course. I will try my best to pass on the knowledge I have in the field of geology to every student. I will present the information in an easy and effective way, so that you can understand the concepts and master the content for a better achievement, and to apply it hopefully throughout your life. As you get familiar with new ideas and facts that may challenge you, I will be available to support you. So please visit me online or contact me whenever you have a question.

#### Preferred Method of Contact

Email: [peter.abanda@hccs.edu](mailto:peter.abanda@hccs.edu)

#### Office Hours

Monday, Wednesday, 12:00 PM to 2:00 PM

## Course Overview

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GEOL 1403 is introductory lab-based geology. Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Laboratory activities will cover methods used to collect and analyze earth science data. This course is required as the introductory course in most geology undergraduate programs and is the prerequisite for GEOL 1404.

### Requisites

GEOL 1403 requires college-level reading and math skills. The minimum requirements for enrollment in GEOL 1403 is qualifying to enroll in INRW 0420 or ESOL 0370/0360 as well as place into MATH 0314 or higher. Please carefully read and consider the repeater policy in the [HCCS Student Handbook](#).

### Program Website

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

## Core Curriculum Objectives (CCOs)

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GEOL 1403 satisfies the Life and Physical Science requirement in the HCCS core curriculum. The HCCS Geology Program 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. Students will
- **Communication Skills:** Students will demonstrate effective development, interpretation and expression of ideas through written, oral, and visual communication. For example, students will construct well labeled concept sketches of geologic processes or settings to demonstrate understanding.
- **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. Exercises based around maps, sample identification, geologic structure analysis, and landscape evaluation are examples of how these objectives will be encountered.
- **Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal by working together with other classmates on assignments or a project during the semester. Many lab assignments may be completed in teams.

## Student Learning Outcomes and Objectives

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### Geology Program Student Learning Outcomes (PSLOs)

Can be found at: <https://learning.hccs.edu/programs/geology> (<https://learning.hccs.edu/programs/geology>)

### Course Student Learning Outcomes (CSLOs)

Upon completion of GEOL 1403, the student will be able to:

1. Describe how the scientific method has led to our current understanding of Earth's structure and processes.
2. Interpret the origin and distribution of minerals, rocks and geologic resources.
3. Describe the theory of plate tectonics and its relationship to the formation and distribution of Earth's crustal features.
4. Quantify the rates of physical and chemical processes acting on Earth and how these processes fit into the context of geologic time.
5. Communicate how surface processes are driven by interactions among Earth's systems (e.g., the geosphere, hydrosphere, biosphere, and atmosphere).
6. Identify and describe the internal structure and dynamics of Earth.
7. Describe the interaction of humans with Earth (e.g., resource development or hazard assessment).
8. (Lab) Classify rocks and minerals based on chemical composition, physical properties, and origin.
9. (Lab) Apply knowledge of topographic maps to quantify geometrical aspects of topography.
10. (Lab) Identify landforms on maps, diagrams, and/or photographs and explain the processes that created them.

11. (Lab) Differentiate the types of plate boundaries and their associated features on maps and profiles and explain the processes that occur at each type of boundary.
12. (Lab) Identify basic structural features on maps, block diagrams and cross sections and infer how they were created.
13. (Lab) Demonstrate the collection, analysis, and reporting of data.

## Learning Objectives

1. Defend or criticize the evidence for Plate Tectonics.

2.1 Compare the formation of igneous, sedimentary and metamorphic rocks

2.2 Explain distribution and formation of fossil fuel and mineral resources.

3.1. Identify the major physiographic features of the oceans and continents related to their plate tectonic setting

3.2. Sketch the different types of plate boundaries and label the features.

4.1 Evaluate the movement of the continents from the formation of Pangaea to present day positions.

4.2 Compare rates of geologic surface processes (e.g., rate of glacial retreat, erosion, coastal retreat)

5.1 Describe the combination of processes that shape landforms.

5.2 Evaluate how the biosphere affects rates of chemical weathering.

6.1 Draw and label a diagram of the interior of the earth.

6.2 Describe how Earth's internal structure impacts plate motion.

7.1 Discuss human modification of Earth's surface and how it contributes to geologic hazards (e.g., dams, highways, wetland development).

8.1. Identify a variety of common rock-forming minerals using physical properties.

8.2. Identify igneous, sedimentary and metamorphic rocks using texture and composition.

9.1. Read, interpret, analyze and understand topographic maps and geological profiles in terms of relief, contour intervals, and elevation.

9.2. Construct topographic maps with provided data.

10.1. Use various forms of technology (e.g., Google Earth, stereo photographs) to identify landforms.

11.1 Draw and label a profile of a subduction zone and a divergent boundary.

11.2 Identify the plate boundary types based on landforms seen on the map (e.g., offset rivers along transform fault)

12.1 Label and interpret folds and faults on geologic maps and cross-sections.

12.2 Interpret the geologic structures in relation to plate tectonic stresses.

13.1. Locate the epicenter of an earthquake by reading a seismogram.

## Departmental Practices and Procedures

### Department Specific Instructor and Student Responsibilities

Via this syllabus and the course management system instructors in the Geology Program should

- Provide a clear grading scale
- Communicate expectations and assignment instructions clearly.
- Establish a safe, welcoming, equitable environment for learning
- Encourage students to engage with geoscience topics beyond the textbook
- Announce available supplemental material and learning tools available to students.
- Communicate with students when they are concerned about achievement, completion, or behavior in class.

### Program-Specific Student Success Information

Please see the information about HCC tutoring opportunities listed under **Student Resources** section in the **HCC Policies and Information** heading of the syllabus. (below)

## Instructional Materials and Resources

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### Instructional Materials

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

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.

You will however, be required to purchase the lab textbook or digital access to lab materials. This is not included in the First Day Program.

### Exploring Geology

**Author:** Reynolds et al

**Publisher:** McGraw-Hill

**Edition:** 6th

**Availability:** First Day Access

Your instructor will communicate instructions for accessing the eText and Connect system as well as options for acquiring a hardcopy of the book if desired.

### Laboratory Manual in Physical Geology

**Author:** AGI, edited by Cronin

**Publisher:** Pearson

**Edition:** 12th

**Availability:** contact your instructor

Your instructor will communicate whether you should acquire online access to this book or a hardcopy of the book. Lab book is not included in First Day access.

### Temporary Free Access to E-Book

Here is the link to get temporary free access to a digital version of the text for fourteen days:

<< [add link] >>

### Other Instructional Resources

**Courseware**

Content here...

## Course Requirements

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### Assignments, Exams, and Activities

Type	Weight	Topic	Notes
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Type	Weight	Topic	Notes
Mid semester Exams/Quizzes	30%	2 mid semester exam	Mid semester exams will test mastery of concepts in specific chapters covered.
Final Exam	20%	Semester Final Exam	A comprehensive final exam that will test mastery and the application of concepts learned during the semester. Final exam is proctored.
Written Assignment	10%	Discussion Board activities	Discussion on a relevant topic with guidance from instructor where students will post reply and respond to their classmates submission.
In-Class and online Activities	15%		This will include online reading practice assignments, quizzes, and unannounced in-class quizzes.
Extra Credit			Describe the assignment here.
Lab	25%		Hand-ons laboratory activities and exams that complements and reinforces the concepts that are taught in lectures. Labs will also include online-virtual activities.

## Grading Formula

Grade	Range	Notes
A	90+	
B	80-89	
C	70-79	
D	60-69	
F	<60	

## \* Instructor's Practices and Procedures

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### 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

Regular and prompt classroom attendance is a critical component of the educational experience because it prepares you the student to be effective and a responsible citizen. Students are expected to contact the instructor regarding any absence before class, or within 24 hours in case of an emergency, just as they would contact an employer regarding any absence from their jobs. With proper notification, the student may be given the opportunity to make up missed work by the next class period. Students are responsible for any material covered in class during their absence. Regardless of the reason or excuse, excessive absences, tardiness, or early departures from class will negatively affect course grades. Students are encouraged to attend class regularly, take notes and be prepared to engage in classroom discussions.

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

### Attendance Procedures

Regular and prompt classroom attendance is a critical component of the educational experience because it prepares you the student to be effective and a responsible citizen. Students are expected to contact the instructor regarding any absence before class, or within 24 hours in case of an emergency, just as they would contact an employer regarding any absence from their jobs. With proper notification, the student may be given the opportunity to make up missed work by the next class period. Students are responsible for any material covered in class during their absence. Regardless of the reason or excuse, excessive absences, tardiness, or early departures from class will negatively affect course grades. Students are encouraged to attend class regularly, take notes and be prepared to engage in classroom discussions.

## Student Conduct

Only good behavior is tolerated in class. Disruptive students will be dealt with according to the procedure showing on the Student code of conduct.

## Instructor's Course-Specific Information

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## Devices

Cellphones should be on put on silent during class and lab meetings. No recording of lectures or taking pictures unless authorized to do so.

## Faculty Statement about Student Success

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## 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

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### HCC Grading System

HCC uses the following standard grading system:

Grade	Grade Interpretation	Grade Points
A	Excellent (90-100)	4

Grade	Grade Interpretation	Grade Points
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 Student Handbook

Here's the link to the HCC Student Handbook <https://www.hccs.edu/resources-for/current-students/student-handbook/> (<https://www.hccs.edu/resources-for/current-students/student-handbook/>) 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/resources-for/faculty/student-conduct-resources-for-faculty/> (<https://www.hccs.edu/resources-for/faculty/student-conduct-resources-for-faculty/>)

## Campus Carry Link

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

<https://www.hccs.edu/departments/police/campus-carry/> (<https://www.hccs.edu/departments/police/campus-carry/>)

## 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 \(https://www.hccs.edu/resources-for/current-students/student-e-mail-eagle-id/\)](https://www.hccs.edu/resources-for/current-students/student-e-mail-eagle-id/) and activate it now. You may also use Canvas Inbox to communicate.

## Office of Institutional Equity

Use the link below to access the HCC Office of Institutional Equity, Inclusion, and Engagement (<https://www.hccs.edu/departments/institutional-equity/> (<https://www.hccs.edu/departments/institutional-equity/>))

### 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/support-services/ability-services/> (<https://www.hccs.edu/support-services/ability-services/>)

### 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) (<mailto:Institutional.Equity@hccs.edu>)

<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/> (<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/>)

### 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/login/ldap> (<https://eagleonline.hccs.edu/login/ldap>)

## 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/resources-for/current-students/student-handbook/) (<https://www.hccs.edu/resources-for/current-students/student-handbook/>)

## 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 \(https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/\)](https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/)) 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/resources-for/current-students/egls3-evaluate-your-professors/> (<https://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/>)

## 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 \(https://www.hccs.edu/resources-for/current-students/tutoring/\)](https://www.hccs.edu/resources-for/current-students/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/resources-for/current-students/supplemental-instruction/> (<https://www.hccs.edu/resources-for/current-students/supplemental-instruction/>).

### Resources for Students:

<https://www.hccs.edu/resources-for/current-students/communicable-diseases/resources-for-students/>  
(<https://www.hccs.edu/resources-for/current-students/communicable-diseases/resources-for-students/>)

### 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://hccs.co1.qualtrics.com/jfe/form/SV\\_25WyNx7NwMRz1FH](https://hccs.co1.qualtrics.com/jfe/form/SV_25WyNx7NwMRz1FH)  
([https://hccs.co1.qualtrics.com/jfe/form/SV\\_25WyNx7NwMRz1FH](https://hccs.co1.qualtrics.com/jfe/form/SV_25WyNx7NwMRz1FH))

## COVID-19

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

<https://www.hccs.edu/resources-for/current-students/communicable-diseases/> (<https://www.hccs.edu/resources-for/current-students/communicable-diseases/>)

## 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

## Course Calendar

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### 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.

## Additional Information

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### Departmental/Program Information

The Geology Program faculty are excited you are participating in this course! Please visit the LearningWeb page to find additional information about the HCC Geology A.S. degree plan, links to Geoscience programs across Texas, careers in Geosciences, Diversity in Geosciences, and program contact information.

<https://learning.hccs.edu/programs/geology> (<https://learning.hccs.edu/programs/geology>)

Completing the HCC Geology A.S. degree plan will satisfy the first two years of requirements for many University geoscience programs including core curriculum and prerequisites for upper-division courses.

HCC has many transfer agreements with Texas universities for geology and geoscience undergraduate degree paths. You can find the information about transfer agreements here: <https://www.hccs.edu/support-services/transfers/> (<https://www.hccs.edu/support-services/transfers/>)

Additionally, students can find more information about Science, Technology, Engineering, and Math (STEM) opportunities and events on the HCC STEM page: <https://www.hccs.edu/stem> (<https://www.hccs.edu/resources-for/current-students/stem--science-technology-engineering--mathematics/>)

## 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. If your instructor is not able to assist you, then you may wish to contact the Natural Science Department Chair, Dr. Cyril Anoka. The phone number is 713-718-5569

The Department of Natural Science can be contacted via phone 713-718-6050 or email [natural.sciences@hccs.edu](mailto:natural.sciences@hccs.edu)

The procedures for HCC student grievance are described at:

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