



# Clinical Pathophysiology-19798

## PTHA-1321

F8A 2022 Section 2 3 Credits 01/18/2022 to 03/13/2022 Modified 01/18/2022

### Course Meetings

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#### Course Modality

H (Hybrid)- mostly P (in person)

#### Meeting Days

Monday, Wednesday, Friday

#### Meeting Times

9:00AM - 12:00PM

#### Meeting Location

Coleman Tower Auditorium

Any classes scheduled on Tuesday or Thursday will be in our PTA Lab in the Coleman Tower room 805

There may be some lectures online via web ex- these will be announced.

### Welcome and Instructor Information

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#### Instructor: Professor Karen M Somer

Email: [karen.somer@hccs.edu](mailto:karen.somer@hccs.edu)

Office: Coleman room 423

Phone: 713-718-7387

#### What's Exciting About This Course

You will learn a little about many diseases and disorders common to our world of Physical Therapy.

This information will be the foundation for your higher level courses. This is the beginning of being able to utilize information, to make decisions critical to your patient's care. You will build on this information in your other classes where the emphasis is on treatment. Treating our patients for their best outcomes is determined by your custom approach to each patient's/client's program. You will also find this information helpful to you and your loved ones.

#### My Personal Welcome

Welcome back! All of you returning should be excited for this next phase of your program. I love pathology and look forward to you sharing in my enthusiasm. My job will be just that; not solely to have you learn this material and do well in my class, but to also feel that sense of excitement as you grasp an understanding of what happens to people of all ages when they are not well, and what an important role we can play in their recovery. I have many stories to share from my hospital experience and I hope the stories will give you a hold on these different conditions; a way to relate to them that will bring you clarity and success.

# Preferred Method of Contact

email: karen.somer@hccs.edu

## Office Hours

Tues/Thurs 1:00pm-3:00pm

virtual on web ex (we can possibly meet in my office but the preference is virtual).

I am available to offer my support. The fastest way to reach me is by my HCC email. I would like to discuss any concerns/issues virtually via WebEx or in person. I'm available during posted office hours to address your questions. I can be available at alternative times with w written request.

My first goal is for you to feel that you have gained a basic understanding of the more common diseases you may encounter in our field of physical therapy. My second goal is for you to feel well prepared for your summer Neurology class. If you are having difficulty learning the information for this course please do spend some time with me. I will likely ask you questions and you might find this intimidating BUT I am not trying to make you uncomfortable- I am trying to understand how you think and approach learning - I am trying to discover your knowledge base so I can better know how to help you.

## Course Overview

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This course covers the study of the pathophysiology of diseases/conditions encountered in physical therapy.

### Requisites

PTHA 1301, PTHA 1413, PTHA 1405, HPRS 1206

## Student Learning Outcomes and Objectives

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### Course Student Learning Outcomes (CSLOs)

All outcomes, objectives, instruction, and activities assume that the student is working under their direction and supervision of a licensed physical therapist. Utilizing information taught and demonstrated in lecture, assigned readings and assignments, the student will be able to demonstrate the following on tests and assignments with at least 75% overall accuracy by the end of the course:

End of Course Outcomes: The student will describe the etiology, pathogenesis, signs/symptoms, and treatments of selected diseases/conditions; identify the impact of the pathologies in physical therapy

#### Course Objectives

1. Demonstrate knowledge of signs and symptoms of pathological conditions encountered in the practice of physical therapy.
2. Demonstrate basic knowledge of diagnosing pathological conditions encountered in the practice of physical therapy.
3. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis treatment, prognosis, and course of common genetic diseases and developmental disorders.
4. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of basic disorders of the integumentary system.
5. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common immune system disorders.
6. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common infectious diseases.
7. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common hematological disorders.
8. Explain the implications to physical therapy for common oncological disorders.
9. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common endocrine and metabolic system disorders.
10. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common cardiovascular system disorders.

11. Explain the basic function of the lymphatic system and implications of lymphatic system disorders for physical therapy treatment.
12. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common respiratory system disorders.
13. Describe the healing process for specific tissues of the musculoskeletal system including ligaments, cartilage, tendon, bone, and muscle.
14. Cite the mechanism of injury, identify at-risk populations, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of musculoskeletal disorders.
15. Demonstrate a basic knowledge of the concept of wellness.

### Learning Objectives

1. Demonstrate knowledge of signs and symptoms of pathological conditions encountered in the practice of physical therapy.
  - 1.1 Differentiate between a sign and a symptom
  - 1.2 Classify signs and symptoms which are unique to a particular disease, disorder, or syndrome.
2. Demonstrate basic knowledge of diagnosing pathological conditions encountered in the practice of physical therapy.
  - 2.1 Understand the basic function and interpretation of diagnostic imaging (X-ray, CT Scan, PET Scan, MRI, etc.).
  - 2.2 Recognize important laboratory values for lab work and implications for treatment modification.
  - 2.3 Understand various orthopedic provocation tests and joint laxity tests.
3. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis treatment, prognosis, and course of common genetic diseases and developmental disorders.
  - 3.1 Summarize the implications for a PTA for each genetic and developmental disorder.
4. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of basic disorders of the integumentary system.
  - 4.1 Summarize the implications for a PTA for each integumentary disorder.
  - 4.2 Describe the tissue healing process.
    - 4.2.1 List the stages of tissue healing.
    - 4.2.2 Identify important indicators and timeline for each healing stage.
  - 4.3 Classify a burn stage using identifying features and apply the rule of nines.
5. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common immune system disorders.
  - 5.1 Summarize the implications for a PTA for each immune system disorder.
  - 5.2 Identify important factors contributing to the health of the immune system.
6. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common infectious diseases.
  - 6.1 Summarize the implications for a PTA for each infectious disease.
  - 6.2 Identify the major cause for prosthetic failure.
7. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common hematological disorders (including leukemia, Hodgkin's lymphoma, Non-Hodgkin's lymphoma, multiple myeloma, Von Willebrand's disease, hemophilia, and sickle cell disease).
  - 7.1 Summarize the implications for a PTA for each hematological disease.

- 7.2 Differentiate between acute and chronic leukemia.
8. Explain the implications to physical therapy for common oncological disorders.
- 8.1 Distinguish between a primary tumor, metastatic tumor, benign tumor, and malignant tumor.
9. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common endocrine and metabolic system disorders (including diabetes Type I and Type II, Grave's Disease, Hashimoto's Disease, hypothyroidism, Cushing's Syndrome, Addison's Disease, Conn's Syndrome, hyperparathyroidism, and hypoparathyroidism).
- 9.1 Summarize the implications for a PTA for each endocrine and metabolic disease.
- 9.2 Differentiate between Type I and Type II diabetes mellitus.
10. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common cardiovascular system disorders (including, but not limited to, angina pectoris, ischemic heart disease, myocardial infarction, congestive heart failure, peripheral artery disease, venous thrombosis, and pulmonary embolism).
- 10.1 Summarize the implications for a PTA for each cardiovascular disease.
- 10.2 Distinguish between left and right sided congestive heart failure.
- 10.3 Summarize the effects of aging on the cardiovascular system.
11. Explain the basic function of the lymphatic system and implications of lymphatic system disorders for physical therapy treatment.
- 11.1 Identify and describe common lymphatic disorders.
12. Explain the etiology, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of common respiratory system disorders (including pneumonia, lung abscesses, COPD, chronic bronchitis, emphysema, asthma, cystic fibrosis, acute respiratory distress syndrome, and sarcoidosis).
- 12.1 Summarize the implications for a PTA for each respiratory disease.
13. Describe the healing process for specific tissues of the musculoskeletal system including ligaments, cartilage, tendon, bone, and muscle.
14. Cite the mechanism of injury, identify at-risk populations, classify clinical manifestations, and discuss the treatment, diagnosis, prognosis, and course of musculoskeletal disorders.
- 14.1 Categorize musculoskeletal diseases by location and type of tissue affected.
- 14.2 Summarize common surgical procedures for musculoskeletal disorders along with implications for physical therapy treatment.
15. Demonstrate a basic knowledge of the concept of wellness.
- 15.1 Discuss causes of infectious diseases including nosocomial infections and iatrogenic cause.
- 15.2 Recognize the risk factors for developing illness.
- 15.3 Understand the role of the PTA in health promotion and disease prevention.
- 15.4 Recognize the potential implications of stress on wellness.
- 15.4.1 Understand different stress relief techniques.
- 15.5. Recognize the behavioral, social and environmental factors that contribute to wellness.
- 15.6 Demonstrates basic knowledge of the need for patient advocacy.

## Departmental Practices and Procedures

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Students must earn a final cumulative grade of  $\geq 75\%$  in order to pass technical courses in the Physical Therapist Assistant

curriculum. In courses with a lab component, if a student does not earn a  $\geq 75\%$  in the lecture or lab portion of a PTHA course, the resulting final grade is an "F" in the course.

Grading Scale for all PTHA/HPRS Courses:

90 -100	A
80 - 89	B
75 - 79	C
70 - 74	D
69 and below	F

HCC PTA Program Grading Scale and the "Incomplete" grading policy can be found on the PTA Program website in the student handbook, pg. 25:

<https://www.hccs.edu/programs/areas-of-study/health-sciences/physical-therapist-assistant/>

## Student Conduct

There is an abundance of material to learn in a limited amount of time. Mutual respect during lecture and lab time will promote a better learning environment. The following considerations need to be remembered:

- Students need to take responsibility and use the rest room as frequently as necessary during breaks to limit the disturbance created by leaving class during class time.
- Students need to refrain from conversation with their neighbors during class time.
- Students need to respect the decision of an instructor to table a conversation during class time to enable the instructor to complete class lecture/lab material.
- All electronic devices must be turned off and stored during all class lectures, labs, and tests unless otherwise notified by the instructor. Students may use laptops for course material delivered electronically with instructor permission.
- No visual, auditory, or any other kind of electronic reproductions of class presentations, homework, and activities may be made without the permission of the class instructor and those appearing or heard in the reproductions. This does not include the reproduction of classroom or lab activities for teaching or grading purposes.
- No food or drink (excluding water) is allowed in the classroom or laboratory area.
- All laboratory equipment is to be cleaned following use and returned to the proper storage area. Electronic equipment is checked and calibrated annually. Equipment should not be used if the calibration/check sticker is out of date. Students are responsible to notify the Program Director immediately if a past due date is found on a piece of equipment or if a piece of equipment is not working properly.
- All students will be used to simulate patients in case scenarios. If a student is injured during the course of class or lab, they must inform the instructor immediately and report the incident on the Student Accident Report within 24 hours of the incident.
- Students must follow the PTA Lab Guidelines & Safety Policy at all times.

## Instructional Materials and Resources

### 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.

The textbooks listed below are *required* for this course. Latest edition is always recommended

*"Pathology for the Physical Therapist Assistant"* (2<sup>nd</sup> edition) by Catherine Goodman, and Kendra Fuller (Elsevier) ISBN: 978-1-4377-0894-3 or ISBN-13 9780323395496

"Fundamental Orthopedic Management for the Physical Therapist Assistant" (4th edition) by Robert Manske (Elsevier) ISBN -13 9780323113472

*"Principles and Techniques of Patient Care"* (6<sup>th</sup> edition) by Sheryl L Fairchild (Elsevier) ISBN: 978-1-4557-0704-1 or ISBN 978-0-323-44584-9

*"Physical Rehabilitation"* (7<sup>th</sup> edition) by O'Sullivan, Schmitz, Fulk (FA Davis) ISBN 978-0-8036-2579-2

## Other Instructional Resources

### Courseware

Some of the chapters in your Pathology Book are Evolve Chapters and can be accessed through your book. These chapters are online only.

## ✓ Course Requirements

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### Assignments, Exams, and Activities

Students will have 48 hours to request review for a change of grade (grievance). After the 48 hour period the grade will remain as recorded.

Professors will have 72 hours to have grades recorded for assignments, quizzes and exams.

#### *Exam Tardiness*

There will be strict adherence to the exam time. A student who arrives late will sacrifice that portion of the total theory exam time. Theory exams will be stopped at the scheduled time. Any student who does not stop at the scheduled time will receive a grade of "0".

All exams will be taken online. It is recommended that you start the process of signing in promptly at your assigned time.

#### **Exam Absence**

Students who miss a theory exam will not have an opportunity to retest. The material on each exam is cumulative. The student who misses an exam will find that material appearing on future exams.

Students missing the last exam of each section, which is the section final exam, will be responsible for seeking the instructor for an exam date and will incur a 10 point deduction off their earned grade.

**STUDENTS ARE RESPONSIBLE FOR SEEKING THE INSTRUCTOR FOR AN ASSIGNED DAY AND TIME TO DO THIS REMEDIATION IN A TIMELY MANNER. THIS MEANS SEEKING THE INSTRUCTOR THE DAY OF THE EXAM OR AS SOON AS POSSIBLE. FAILURE TO DO THIS WITHOUT FACULTY ASSIST COULD RESULT IN A FINAL GRADE LOWERED BY ONE WHOLE LETTER GRADE.**

#### *Theory Exams*

*Plan to take all exams on campus with your lap top or i pad in our classroom.*

Should it be necessary to take an exam at home, you should be at your computer facing a blank wall ahead of time ready to go.

Theory exams are based on assigned readings, lectures, class discussions, and could also include films, videos, and practical application from corresponding laboratory classes as applicable. Theory exams will be computer based and may consist of true/false, multiple choice, matching, fill-in-the-blank, or short answer questions. Only answers recorded using the computer

based exam system will be used to calculate a grade for the exam. Each theory exam will include questions from material previously covered in the course and may include material from previous courses covering related material.

At the discretion of the instructor, time will be allotted for class exam review. The purpose of the review is to clarify information. This is not a time for students to argue about the exam questions and answers. Students who have individual concerns regarding the exam after the review, should email the instructor and make an appointment to confer in private. Students WILL NOT have access to the exams questions and answers after the exam. Students may not request a private session to review exam questions and answers.

The end of the semester Theory Final Exam will be comprehensive and may include information from previous classes applicable to this course. The Final Comprehensive Theory Exam will not be reviewed with the students.

Section Exams: There will be Two Sections for Exams:

- **Section I - Systems:** Each theory exam covers the pathologies of multiple diseases, disorders, syndromes of the human body systems during the first portion of this 8 week semester course.
- **Section II – Orthopedic Conditions:** Each theory exam covers orthopedic pathologies during the second portion of this 8 week semester course

Exam format for each Section

- Each theory exam will carry material from the past exam.
- Each new theory exam grade will totally replace the last exam grade.
- Students with two failed exams may be required to attend formal tutorials to do supplemental work.

The last theory exam for each section will be the longest exam, covering all material for that section, and will be the **final exam grade** for that section.

- Final course grade- grand average, will be calculated after all remediation is complete.
  - Students who fail a section final exam or the comprehensive final exam, with a grade less than 70 %, **but** have a passing exam grade average, will receive a zero for that section and a grade of incomplete (I), **until the material for that exam is remediated.** The original earned grade will then replace the 0.
- The total exam grade will be tallied and must be a 75% to pass this course. (Comprehensive final exam and two section exams)
- Bed Number Ten must be a minimum of 75% to pass this course
- HW must be a minimum of 80% to pass this course
- Students will receive a final course grade

Type	Weight	Topic	Notes
All Three Final Exams: Theory, Ortho, Comprehensive Final	Total of 100%		These three Final Exams must together have a passing average of a minimum of 75% to pass this course.
Theory Systems Exams	36%	Final Systems Exam Grade	Must have a 70% or will receive an incomplete and will need to remediate to pass this course if you have a minimum of 75% when the 3 exam categories are tallied.
Theory Orthopedic Exams	36%	Final Ortho Exam Grade	Must have a 70% or will receive an incomplete and will need to remediate to pass this course if you have a minimum of 75% when the 3 exam categories are tallied.
Final Exam	28%	Comprehensive Final Exam Grade	This exam will cover all material taught during this course, material covered in assigned readings and material from past courses as it applies to this course. It can also include homework and class assignments (should homework or classwork be assigned).

Type	Weight	Topic	Notes
Bed Number 10	0%		<p>Must have a passing minimum grade of 75% before or after remediation to pass this course.</p> <p>There will be one opportunity to remediate a failed grade.</p> <p>Initial grade of 70- 74 must be remediated to an 80 and there will be a 2 point deduction off of your final grade for this course</p> <p>Initial grade below 70 must be remediated to an 80 and there be a 5 point deduction off of your final grade for this course</p> <p><b>STUDENTS ARE RESPONSIBLE FOR SEEKING THE INSTRUCTOR FOR AN ASSIGNED DAY AND TIME TO DO THIS REMEDIATION. FAILURE TO DO THIS WITHOUT FACULTY ASSIST can RESULT IN A FINAL GRADE LOWERED BY ONE WHOLE LETTER GRADE.</b></p>
Homework/Class Assignments/Quizzes	0%		<p>Homework/Class Assignments/Quizzes may be assigned throughout the semester. Grading will be based on timely completion of the assignment and may also be graded by the quality of the assignment.</p> <p>Homework/Class Assignments/Quizzes average must be a minimum of 80% to pass this course. There will be no remediation for missing, incomplete or failed Homework/Class Assignments/Quizzes.</p>

## \* Instructor's Practices and Procedures

### Academic Integrity

#### Academic Integrity

Students can be dismissed from the program for cheating on exams, quizzes or assignments. Students dismissed for cheating will not be allowed readmission to the PTA program. See the HCC policy on under the Student policies and procedure under the tab for Basic Standard of Conduct [Scholastic Dishonesty](#).

Cheating includes the following, but not limited to:

- Videotaping or taking pictures of any exam or during class times without express consent of the instructor
- In possession of a cell phone during an exam or during class times without express consent of the instructor
- Copying answers from another student
- Using any technology to look up answers during an exam
- Any homework or class assignment specified to be completed individually is subject to the Academic Honesty Policy

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

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

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

### Attendance Procedures

Students are expected to be on time and remain present or camera turned on for the entire class. Being on time, staying throughout the entire class, and exemplary attendance go hand in hand with professionalism. Students who do not abide by course attendance requirements show a lack of strong personal commitment. Each student is allowed one (1) absence per course per semester without penalty. For each additional absence per class, the final overall course grade will be lowered by five (5) points. Three (3) tardy arrivals (up to 20 minutes late) or early departures (less than 20 minutes) will equal one absence. Students who arrive or log in more than 20 minutes after the start of class or leave more than 20 minutes before the end of class will be considered absent. Lab and lecture classes of the same course are considered separate for the purpose of attendance. Only one (1) absence can be accrued per course per day. All absences will be treated equally, regardless of the reason, and if any absence occurs, the student is responsible for the missed class content and assignments. Professional courtesy means students



should call the lead instructor (713-718-7387) and leave a voicemail or email the lead if instructor if they will be late or absent from class or call the program department (713-718-7391) and leave a voicemail.

## Instructor's Course-Specific Information

Students will have 48 hours to request review for a change of grade (grievance). After the 48 hour period the grade will remain as recorded.

Professors will have 72 hours to have grades recorded for assignments, quizzes and exams.

## Devices

- All electronic devices must be turned off and stored during all class lectures, labs, and tests unless .
- Students may **ONLY** use laptops/ ipads or other electronic devices for course material delivered electronically with instructor permission.
- No visual, auditory, or any other kind of electronic reproductions of class presentations, homework, and activities may be made without the permission of the class instructor and those appearing or heard in the reproductions. This does not include the reproduction of classroom or lab activities for teaching or grading purposes.

## Faculty Statement about Student Success

Instructors in this program are dedicated to helping students achieve success. Instructors and students working together can make this happen.

Instructors strive to find ways for students to acquire and retain course information.

This program requires the student to be disciplined with regard to their focus both during class and out of class study time, with good note taking skills, and good study habits.

Successful students are those who are on time and attend all of each class, know how to prioritize their home and school life, complete reading and HW assignments, participate in class activities and ask pertinent questions to clarify information.

More suggestions for success:

- Reading/Viewing textbook material ahead of class meetings
- Finding supplemental material (for example: you tube) to clarify unclear concepts
- Ask questions during class. This gives all students an opportunity for clarification of material.
- Outside study sessions with classmates and peers

There is no short cut for success in this course; it requires reading (and re-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

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### Link to Policies in Catalog and Student Handbook

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

In it you will find information about the following:

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

### Link to HCC Academic Integrity Statement

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

### Campus Carry Link

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

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

## HCC Email Policy

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

## Office of Institutional Equity

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

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

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

### Office of the Dean of Students

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

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

## Student Success

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

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

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

## Canvas Learning Management System

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

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

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

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

## HCC Online Information and Policies

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

## Scoring Rubrics, Sample Assignments, etc.

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

## Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

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

As a student, it is your responsibility to:

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

## 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) (<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

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

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

## Student Resources

### Tutoring

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

### Libraries

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

### 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>)

## Instructional Modalities

### In-Person (P)


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

## 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

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 [PTHA 1321 CLINICAL PATHOPHYSIOLOGY CALENDAR revised Jan 18 2022.docx](https://eagleonline.hccs.edu/courses/185885/files/36548299?wrap=1)  
(<https://eagleonline.hccs.edu/courses/185885/files/36548299?wrap=1>)

[Actions](#)

[Actions](#)

### SYLLABUS MODIFICATION

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



When	Topic	Notes
		<a href="https://hccs.campusconcourse.com/#top">Course Syllabus Calendar (https://hccs.campusconcourse.com/#top)</a>

## Additional Information

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### Departmental/Program Information

The PTA Program Handbook, which contains program and professional information and specific program policies can be found:

<https://www.hccs.edu/programs/areas-of-study/health-sciences/physical-therapist-assistant/>

The program recommends student membership to the [American Physical Therapy Association \(http://www.apat.org\)](http://www.apat.org) (APTA). Students who are members have resources to assist with course content, professional and ethical documents, and scholarship opportunities.

### 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 Department Chair.

Michele Voight, PTA, DHSc, MPA

Program Director

Physical Therapist Assistant

713-718-7368

michele.voight@hccs.edu

Or use the provided link for access to the student grievance procedure:

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

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