

HGTC

Horry-Georgetown
Technical College

COURSE INSTRUCTIONAL PACKAGE

PTH 205

Physical Therapy Functional Anatomy

Effective Term

Fall 2026

Part I: Course Information

Effective Term: Fall 2026

COURSE PREFIX: PTH 205

COURSE TITLE: Physical Therapy Functional Anatomy

CONTACT HOURS: 6/week

CREDIT HOURS: 4

RATIONALE FOR THE COURSE:

This course introduces the student to performing manual muscle testing and goniometric patient assessments, correctly identifying musculoskeletal anatomy on written patient situations, accurately analyzing human movement and discussing the pertinent musculoskeletal components involved.

COURSE DESCRIPTION:

This course introduces the basic concepts and principles of muscles, joints, and motion, including traditional testing procedures.

PREREQUISITES/CO-REQUISITES:

Prerequisites: BIO 210 and BIO 211 and (MAT 110 or MAT 120) Corequisites: PSY 203, PTH 221, PTH 204

REQUIRED MATERIALS:

- Mansfield PJ, Neumann DA. *Essentials of Kinesiology for the Physical Therapist Assistant*. 4th ed. St. Louis, MO: Mosby/Elsevier; 2024.
- Avers D, Lott DJ, Brown M. *Daniels and Worthingham's Muscle Testing Techniques of Manual Examination and Performance Testing* 11th Ed. St. Louis, MO: Elsevier; 2025.
- Reese NB, Bandy WD. *Joint Range of Motion and Muscle Length Testing* 4th Ed. St. Louis, MO: Elsevier 2024.
- Roy SH, Wolf SL, Scalzitti, DA. *The Rehabilitation Specialist's Handbook* 4th Ed. Philadelphia, PA: F. A. Davis Company; 2013.
- Scrubs

Please visit the [BOOKSTORE](#) online site for most current textbook information.

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

ADDITIONAL REQUIREMENTS:

Laptop

TECHNICAL REQUIREMENTS:

- Access to Desire2Learn (D2L), HGTC's learning management system (LMS) used for course materials.
- Access to myHGTC portal for student self-services.
- College email access – this is the college's primary official form of communication.

ATTENDANCE VERIFICATION:

The Add/Drop Period is the first 7 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format classes. Please refer to the [academic calendar](#) for deadlines for add/drop. You must attend at least one meeting of all your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly

IDENTIFICATION VERIFICATION:

Students enrolled in online courses will be required to complete identity verification. Please refer to your Instructor's Course Information Sheet for information regarding this requirement.

STUDENT COURSE EVALUATIONS:

Each semester, students are provided with an opportunity to participate in course evaluation surveys. These evaluations offer crucial feedback to instructors and the College, leading to enhancement of educational quality. By completing these surveys, you play a key role in the ongoing improvement of teaching methods and course content, ensuring future students enjoy a better learning experience. Students are encouraged to complete these surveys as your active participation in this process reflects your dedication to your education and drives positive change.

CLASSROOM ETIQUETTE AND STUDENT RIGHTS AND RESPONSIBILITIES:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If

you are monitoring an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

To ensure a positive College experience, guidelines exist in numerous areas of campus life. The Student Code for The South Carolina Technical College System “The Student Code” (3-2-106.1) applies to all HGTC students. The Student Code sets forth rights and responsibilities of the individual student, identifies behaviors that are not consistent with the values of college communities, and describes the procedures that will be followed to adjudicate cases of alleged misconduct. Students are expected to conduct themselves in a civil manner, that is respectful of the rights of others, and that is compatible with the college’s educational mission. Students are expected to comply with all of the college’s duly established rules and regulations regarding student behavior while on campus; while participating in off-campus college sponsored activities; and while participating in off-campus clinical, field, internship, or in-service experiences. Students are expected to comply with all course requirements as specified by instructors in course syllabi and to meet the standards of acceptable classroom behavior set by instructors. For more information, login to your myHGTC account under “Student Rights and Responsibilities” card then select “Student Code of Conduct” or the “Student Catalog and Handbook.”

Part II: Student Learning Outcomes

PROGRAM LEARNING OUTCOMES:

After successful completion of the Horry-Georgetown Technical College Physical Therapist Assistant Program, the graduate will be able to achieve the program learning outcomes. The student is advised to view the program learning outcomes in the Student Manual. Reviewing the outcomes will assist the student in understanding how the terminal course objectives achieve the program learning outcomes.

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

After successful completion of this course, the student will be able to meet the following terminal behavior outcomes:

1. Review the medical record and physical therapy documentation to accurately identify and palpate specific structures to select and perform components of

data collection for the cardiovascular, pulmonary, neurological and musculoskeletal systems.

- a. Assessments: Skill Check Assessments, Final Laboratory Practical Competency Examination and Comprehensive Final Examination
2. Review the medical record and physical therapy documentation to identify and discuss the functional significance of supportive connective tissues within the human body (i.e. ligaments, bursa, capsules, etc.)
 - a. Assessment: Comprehensive Final Examination
3. Identify indications, contraindications and precautions for data collection procedures and be able to modify, adjust and discontinue tests and measures within the plan of care established by the physical therapist.
 - a. Assessments: Skill Check Assessments, Final Laboratory Practical Competency Examination, Comprehensive Final Examination
4. Educate others by demonstrating effective communication and teaching methods in a manner that fosters confidence, and reflects an understanding of socioeconomic, cultural, and psychological differences during data collection procedures on a mock patient scenario.
 - a. Assessments: Skill Check Assessments and Final Laboratory Practical Competency Examination
5. Demonstrate compliance within the scope of practice of a Physical Therapist Assistant in both legal and ethical dimensions.
 - a. Assessments: Final Laboratory Practical Competency Examination, Comprehensive Final Examination
6. Document components of data collection in SOAP note format accurately and timely with correct billing for reimbursement.
7. Respond effectively to environmental emergencies that may occur in the clinical setting.

STUDENT UNIT LEARNING OUTCOMES PER MODULE

After successful completion of the classroom activity, the student will be able to meet the following instructional objectives:

*Modules can change per discretion of the instructor.

Module #1

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 1: Basic Principles of Kinesiology

1. Define kinesiology and biomechanics as it relates to the human body.
2. Compare and contrast descriptive terminology utilized to relate various parts of the human body to each other.
3. Explain the difference between a closed kinetic chain and an open kinetic chain.
4. Discuss joint movement in reference to planes and axes.
5. Differentiate osteokinematic motions of the human body relative to the planes of movement.
6. Differentiate between osteokinematic and arthrokinematic movement.
7. Explain the convex-concave rule as it relates to arthrokinematic movement.
8. Define terms related to basic biomechanics.
9. Describe how force, torque, and levers affect biomechanical movement.
10. Define Newton's Laws of Motion and provide a clinical example of its implication.
11. Identify the types of motion and provide an example in the human body of each.
12. Describe the four simple machines and explain the advantages and disadvantages of each.
13. Analyze how muscular lines of pull produce specific biomechanical motions.
14. Explain how muscular force vectors are used to describe movement.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapters 1-2 ; Range of Motion and Muscle Length Testing Chapter 1; Muscle Testing Chapter 1

Assessment(s): Lab Handout

1. Demonstrate compliance with HGTC PTA laboratory policies and procedures.
2. State the data collection techniques and procedures for goniometry, muscle length assessment and manual muscle testing.
3. Explain the role of the physical therapist assistant in data collection procedures to meet the stated short- and long-term goals on the plan of care established by the physical therapist.
4. Demonstrate daily applications of Newton's Laws of Motion.

5. Provide examples of the different types of forces acting on objects.
6. Provide an example of a first class, second class and third-class lever using examples from the human body and illustrate the concepts with practical applications.

Module #2

Lecture

Materials Covered: Essentials of Kinesiology Chapter 2: Structure and Function of Joints

Assessment(s): Lecture Exam

1. Recognize the components of the axial versus appendicular skeleton.
2. Define the primary components found in bone.
3. Describe the structure of bone.
4. Describe the five types of bones found in the human skeleton.
5. Define common skeletal pathologies including fracture, osteoporosis, osteomyelitis, and those seen in childhood.
6. Classify joints of the human body according to type, available motion, and structure.
7. Describe the structure of joints and explain the purpose of the connective tissues.
8. Define normal and abnormal end feels and state the purpose of understanding each.
9. Explain the difference between the open and closed packed positions of a joint.
10. Define accessory motion forces that occur during joint mobilization.
11. Define common pathological terms to describe pathology of the articular system.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant: Chapter 1 and 2.

Assessment(s): Lab Handout

1. Palpate boney landmarks on a lab partner and verbalize the location using directional terminology.
2. Assemble disarticulated bones from the upper and lower extremities to create the appendicular skeleton.
3. Organize bones from the bone box into the appropriate category of type of

bone.

4. Perform passive range of motion on a lab partner to determine the end feel.
5. Demonstrate arthrokinematics movements using skeletal models for joints of the body.

Module #3

Lecture

Materials Covered: The Rehabilitation Specialist's Handbook: Section IV
Neuromuscular

Assessment(s): Lecture Exam

1. Distinguish the central nervous system, peripheral nervous system, and the autonomic nervous system.
2. Define components of nervous tissue.
3. Describe the two major types of nerve fibers in peripheral nerves.
4. Define dermatome and discuss the clinical significance of understanding sensory innervation.
5. Explain the formation of peripheral nerves via a plexus.
6. Recognize common pathologies of the central and peripheral nervous systems.

Lecture

Materials Covered: Essentials of Kinesiology Chapter 3: Structure and Function of Skeletal Muscles

Assessment(s): Lecture Exam

1. Explain how muscle nomenclature assists with understanding the action of the muscle.
2. Describe how cross-sectional area, line of pull, and shape help determine the functional potential of a muscle.
3. Describe the process of muscle contraction and the sliding filament theory.
4. Explain the length-tension relationship in muscle tissue.
5. Describe concentric, eccentric, isometric, and isokinetic activation of muscle.
6. Distinguish between open kinetic chain and closed kinetic chain movement.

Lecture

Materials Covered: The Rehabilitation Specialist's Handbook: Section V
Cardiopulmonary

Assessment(s): Lecture Exam

1. List the major structures of the cardiovascular system and state their primary functions in circulation.
2. Identify the basic path of blood through the heart, lungs and body.
3. Explain the sequence of atrial and ventricular events in the cardiac cycle and their role in circulating blood.
4. Define pulse and blood pressure and explain their basic purpose as vital signs used to assess cardiovascular function.
5. List the major structures of the lymphatic system and state their primary functions in circulation.
6. Recognize common pathologies of the cardiovascular system and lymphatic system.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapters 3; The Rehabilitation Specialist's Handbook: Section IV Neuromuscular Assessment(s): Lab Handout

1. Identify dermatome patterns on a model and on your lab partner and discuss the clinical significance.
2. Draw the brachial plexus and discuss the clinical significance to your lab partner.
3. Identify cutaneous and motor distribution of peripheral nerves.
4. Perform concentric, eccentric, and isometric contractions for muscles in the human body.
5. Demonstrate the force velocity relationship by performing muscle contractions at various speeds.
6. Demonstrate the length tension relationship by performing muscle contractions at varying degrees of available joint motion.
7. Describe the use of manual muscle testing (MMT) as a clinical measure of muscle performance.
8. Palpate pulses in the upper and lower extremity and explain the purpose of assessment.
9. Palpate the inferior surface of the mandible for lymph nodes and explain the purpose of assessment.

Module #4

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 4: Structure and Function of the Shoulder Complex

Assessment: Lecture Exam

1. Identify the bones, joints, and ligaments relevant to the shoulder complex and discuss the primary function of each.
2. Cite the normal range of motion for shoulder osteokinematics.
3. Cite the proximal and distal attachments, actions, and innervation of the muscles of the shoulder complex.
4. Describe the biomechanics for the glenohumeral joint, scapulothoracic joint, acromioclavicular joint and sternoclavicular joint in producing functional upper extremity motion.
5. Cite the closed and loose packed positions, end feel and capsular pattern of the shoulder complex.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 4 Joint Range of Motion and Muscle Length Testing Chapter 3 and 6;

Muscle Testing Chapter 5

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the shoulder using a goniometer on your lab partner following demonstration by the instructor.
2. Accurately identify shoulder and scapular musculature by palpation and place your lab partner in the correct position to perform manual muscle testing of the shoulder and scapula following demonstration by the instructor.
3. Accurately perform muscle length testing for the shoulder on your lab partner following demonstration by the instructor.
4. Recognize when data collection procedures should not be provided due to a change in the patient's status and report to the supervising Physical Therapist.
5. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
6. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.

7. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.
8. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #5

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 5: Structure and Function of the Elbow and Forearm Complex

Assessment: Lecture Exam

1. Identify the bones, joints, and ligaments relevant to the elbow and forearm complex and discuss the primary function of each.
2. Cite the normal range of motion for elbow and forearm osteokinematics.
3. Cite the proximal and distal attachments and innervation of the muscles of the elbow and forearm complex.
4. Describe the biomechanics for the elbow and forearm in producing functional upper extremity motion.
5. Cite the closed and loose packed positions, end feel and capsular pattern for the elbow complex.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 5; Joint Range of Motion and Muscle Length Testing Chapter 4 and 6;

Muscle Testing Chapter 5

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the elbow and forearm using a goniometer on your lab partner following demonstration by the instructor.
2. Accurately identify elbow and forearm musculature by palpation and place your lab partner in the correct position to perform manual muscle testing of the elbow and forearm following demonstration by the instructor.
3. Accurately perform muscle length testing for the elbow and forearm complex on your lab partner following demonstration by the instructor.
4. Recognize when data collection procedures should not be provided due to a

change in the patient's status and report to the supervising Physical Therapist.

5. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
6. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
7. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.
8. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #6

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 6 and 7: Structure and Function of the Wrist; Structure and Function of the Hand

Assessment: Lecture Exam

1. Identify the bones, joints and ligaments relevant to the wrist and hand joint complex and discuss the primary function of each.
2. Cite the normal range of motion for wrist and hand complex.
3. Cite the proximal and distal attachments and innervation of the primary muscles of the wrist and hand.
4. Describe the biomechanics for the wrist and hand in producing functional upper extremity motion.
5. Cite the closed and loose packed positions, end feel and capsular pattern for the wrist and hand.
6. Identify the two types of prehension (grasps) and discuss the functional significance of each.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 6 and 7; Joint Range of Motion and Muscle Length Testing Chapter 5 and 6; Muscle Testing Chapter 5

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the wrist and hand

using a goniometer on your lab partner following demonstration by the instructor.

2. Accurately identify wrist and hand musculature by palpation and place your lab partner in the correct position to perform manual muscle testing following demonstration by the instructor.
3. Accurately perform muscle length testing for the wrist and hand on your lab partner following demonstration by the instructor.
4. Recognize when data collection procedures should not be provided due to a change in the patient's status and report to the supervising Physical Therapist.
5. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
6. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
7. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.
8. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #7

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 9: Structure and Function of the Hip

Assessment: Lecture Exam

1. Identify the bones, joints and ligaments of the hip and pelvis and discuss the primary function of each.
2. Cite the normal range of motion and functional range of motion for osteokinematics of the hip.
3. Describe the three kinematic strategies used to produce different functional motions at the hip.
4. Describe the biomechanics for the hip in producing functional lower extremity motion and gait.
5. Cite the closed and loose packed positions, end feel and capsular pattern for the hip.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 9; Joint Range of Motion and Muscle Length Testing Chapter 11 and 14; Muscle Testing Chapter 6

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the hip using a goniometer on your lab partner following demonstration by the instructor.
2. Accurately identify hip musculature by palpation and place your lab partner in the correct position to perform manual muscle testing following demonstration by the instructor.
3. Accurately perform muscle length testing for the hip on your lab partner following demonstration by the instructor.
4. Recognize when data collection procedures should not be provided due to a change in the patient's status and report to the supervising Physical Therapist.
5. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
6. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
7. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.
8. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #8

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 10: Structure and Function of the Knee

Assessment: Lecture Exam

1. Identify the bones, joints and ligaments of the knee and discuss the primary function of each.
2. Cite the normal range of motion and functional range of motion for osteokinematics of the knee.
3. Describe the biomechanics for the knee in producing functional lower extremity motion.

4. Cite the closed and loose packed positions, end feel and capsular pattern for the knee.
5. Describe the combined movements at the hip and knee that promote the most effective force production.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 10; Joint Range of Motion and Muscle Length Testing Chapter 12 and 14; Muscle Testing Chapter 6

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the knee using a goniometer on your lab partner following demonstration by the instructor.
2. Accurately identify knee musculature by palpation and place your lab partner in the correct position to perform manual muscle testing following demonstration by the instructor.
3. Accurately perform muscle length testing for the knee on your lab partner following demonstration by the instructor.
4. Recognize when data collection procedures should not be provided due to a change in the patient's status and report to the supervising Physical Therapist.
5. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
6. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
7. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.
8. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #9

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 11: Structure and Function of the Ankle and Foot

Assessment: Lecture Exam

1. Identify the bones, joints and ligaments of the ankle and foot and discuss the

primary function of each.

2. Cite the normal range of motion and functional range of motion for osteokinematics of the foot and ankle complex.
3. Describe the biomechanics for the foot and ankle complex in producing functional lower extremity motion.
4. Cite the closed and loose packed positions, end feel and capsular pattern for the foot and ankle complex.
5. Explain how the interaction among the talocrural, subtalar, and transverse tarsal joints allow the foot to adapt to uneven ground while standing and walking.

Lab

Materials Covered: Covered: Essentials of Kinesiology for the Physical Therapy Assistant Chapter 11; Joint Range of Motion and Muscle Length Testing Chapter 13 and 14; Muscle Testing Chapter 6

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the ankle and foot using a goniometer on your lab partner following demonstration by the instructor.
2. Accurately identify ankle and foot musculature by palpation and place your lab partner in the correct position to perform manual muscle testing following demonstration by the instructor.
3. Accurately perform muscle length testing for the ankle and foot on your lab partner following demonstration by the instructor.
4. Recognize when data collection procedures should not be provided due to a change in the patient's status and report to the supervising Physical Therapist.
5. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
6. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
7. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.
8. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #10

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant
Chapter 8: Structure and Function of the Vertebral Column

Assessment: Lecture Exam

1. Identify the bones, joints and ligaments of the spine and discuss the primary function of each.
2. Describe the three parts of the intervertebral disc and discuss the function and mechanics in the spine.
3. Cite the normal range of motion for the spine.
4. Describe the biomechanics of the spine in producing functional movement patterns.
5. Cite the closed and loose packed position, end feel and capsular pattern of the spine.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant
Chapter 8; Joint Range of Motion and Muscle Length Testing Chapter 8 and 9;
Muscle Testing Chapter 3 and 4

Assessment: Lab Handout; Skill Check Assessment

1. Accurately identify the bony landmarks used for goniometric alignment and be able to perform active and passive range of motion for the spine using a goniometer, tape measure, and inclinometer on your lab partner following demonstration by the instructor.
2. Accurately identify spinal musculature by palpation and place your lab partner in the correct position to perform manual muscle testing following demonstration by the instructor.
3. Recognize when data collection procedures should not be provided due to a change in the patient's status and report to the supervising Physical Therapist.
4. Recognize when a mobility or strength intervention is not further indicated based upon data collection with assistance from the instructor.
5. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
6. Appropriately respond to a peer's privacy by performing appropriate draping during data collection techniques.

7. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #11

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant
Chapter 12: Fundamentals of Human Gait

Assessment: Lecture Exam

1. Describe the key events of the normal gait cycle utilizing both the traditional and Rancho Los Amigos terminology.
2. Describe the sagittal, frontal, and horizontal plane kinematics that occur during gait.
3. Explain the muscular interactions during each phase of gait.
4. Describe the common gait deviations, including impairments that may cause the deviations.
5. Explain the normal development of gait from birth to age seven.

Lab

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant
Chapter; The Rehabilitation Specialist's Handbook Part 4 Section XIV; Muscle Testing Chapter 8

Assessment: Lab Handout; Skill Check Assessment

1. Distinguish between Rancho Los Amigos and Standard terminology used to describe the phases of the gait cycle.
2. Accurately identify the muscle activity that occurs during the phases of gait and the normal range of motion values required for normal gait.
3. Use appropriate gait terminology to perform data collection for gait patterns on your lab partner and document accurately in a SOAP note.
4. Perform simple clinical measurements of gait to measure the temporal and spatial aspects of gait.
5. Explain the purpose and results of data collection procedures to your lab partner effectively in a clear and understandable manner and reinforce the importance of a home exercise program.
6. Document data collection performed in SOAP note format accurately and timely with correct billing for reimbursement.

Module #12

Lecture

Materials Covered: Essentials of Kinesiology for the Physical Therapy Assistant

Chapter 13: Kinesiology of Mastication and Ventilation

Assessment: Lecture Test

1. Identify the bones, joints, and ligaments relevant to the temporomandibular joint and discuss the primary function of each.
2. Cite the normal range of motion for osteokinematics of the temporomandibular joint.
3. Describe the biomechanics for the temporomandibular joint for opening and closing the mouth.
4. Cite the closed and loose packed positions, end feel and capsular pattern of the temporomandibular joint (TMJ).
5. Justify the actions of the primary muscles of the temporomandibular joint through knowledge of the muscles' proximal and distal attachments.
6. Identify common pathologies and physical therapy interventions in relation to the temporomandibular joint.

****Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

Part III: Grading and Assessment

EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS*:

Students’ performance will be assessed, and the weight associated with the various measures/artifacts are listed below.

EVALUATION*

Tests	50%
Assignments/quizzes	2%
Academic Review	5%
Skill Check Assessments	8%
Final Laboratory Practical Competency Examination	8%
Class Participation	2%
<u>Comprehensive Final Examination</u>	<u>25%</u>
	100%

****Students, for the specific number and type of evaluations, please refer to the Instructor's Course Information Sheet.***

GRADING SYSTEM:

A= 90%-100%

B= 80%-89%

C= 75%-79%

D= 69%-74%

F= below 68%

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, and Is also negatively impact academic progression and financial aid status.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student, and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

For online and hybrid courses, refer to your Instructor's Course Information Sheet for any required on-site meeting times. In online courses, attendance is fulfilled through the submission of academic work. Please be aware that instructors may require exams to be proctored either online or at an approved testing site. If you choose to use a testing center other than those provided by HGTC, that center may charge a fee for its services.

Part V: Student Resources

THE STUDENT SUCCESS AND TUTORING CENTER (SSTC):



The SSTC offers all students the following **free** resources:

1. Academic tutors for most subject areas, Writing Center support, and Academic Coaching for college success skills.
2. Online tutoring and academic support resources.
3. Professional and interpersonal communication coaching.

Visit the [Student Success & Tutoring Center](#) website for more information. To schedule tutoring or coaching, contact the SSTC at sstc@hgtc.edu or self-schedule in the Penji iOS/Android app or at www.penjiapp.com. Email sstc@hgtc.edu or call SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455, or go to the SSTC [Online Resource Center](#) to access on-demand resources.

STUDENT INFORMATION CENTER – TECH Central:



TECH Central offers all students the following **free** resources:

1. Getting around HGTC: General information and guidance for enrollment, financial aid, registration, and payment plan support!
2. In-person and remote assistance are available for Desire2Learn, Student Portal, Degree Works, and Office 365.
3. Chat with our staff on TECH Talk, our live chat service. TECH Talk can be accessed on the student portal and on TECH Central's website, or by texting questions to (843) 375-8552. Visit the [Tech Central website](#) for more information. Live Chat and Center locations are posted on the website. You may also call (843) 349-5199.

HGTC LIBRARY:



Each campus location has a library where HGTC students, faculty, and staff may check out materials with their HGTC ID. All three HGTC campus libraries have librarians and staff who can aid with research, computers to support academic research and related school-work, and individual/group study rooms. Printing is available as well at each location. Visit the [Library](#) website for more information or

call (843) 349-5268.

STUDENT TESTING:

Testing in HGTC courses may occur during regularly scheduled class time or online, with or without proctoring. Tests may be delivered in the following formats:

- Digitally through D2L
- In writing on paper
- Through a publisher platform (note: some publisher platforms carry an associated fee)

Tests may include time limits and may require proctoring depending on the course.

When proctoring is required and is not provided by the course instructor in the classroom, students may complete their test face-to-face at an [HGTC Testing Center](#) or another approved testing site, or online using HGTC's online proctoring provider. For more information about available proctoring options, visit the [Online Testing](#) section of the HGTC Testing Center webpage.

Students testing at an HGTC Testing Center should note the following:

- **Appointments must be scheduled at least 24 hours in advance.**
- **A physical, government-issued photo ID is required to test.**

The **Instructor Information Sheet** will have more details on test requirements for your course.

DISABILITY SERVICES:

HGTC is committed to providing an accessible environment for students with disabilities. Students seeking accommodations are encouraged to visit HGTC's [Accessibility and Disability Service webpage](#) for detailed information.

It is the student's responsibility to self-identify as needing accommodations and to provide appropriate documentation. Once documentation is submitted, the student will participate in an interactive process with Accessibility and Disability Services staff to determine reasonable accommodations. Students may begin the

accommodations process at any time; however, accommodations are **not retroactive** and will only be applied from the point at which they are approved. Students must contact the office **each semester** to renew their accommodations.

For assistance, please contact the Accessibility and Disability Services team at disabilityservices@hgtc.edu or 843-796-8818 (call or text).

COUNSELING SERVICES:

HGTC Counseling Services strives to optimize student success through managing personal and academic concerns that may interfere with achieving educational goals. Staff are available to every student for assistance and guidance on personal matters, academic concerns and other areas of concern. HGTC offers free in-person and telehealth counseling services to students. For more information about counseling services, please reach out to counseling@hgtc.edu or visit the website the [Counseling Services webpage](#).

STATEMENT OF EQUAL OPPORTUNITY/NON-DISCRIMINATION STATEMENT:

Our sincere commitment to both effective business management and equitable treatment of our employees requires that we present this Policy Statement as an embodiment of that commitment to the fullest.

Discrimination is conduct that includes unjust or prejudicial treatment based upon an individual's age, race, color, sex, religion, national origin, disability, and genetic information or any other protected classes deemed unlawful under State or Federal law that excludes an individual from participation in, denies the individual the benefits of, treats the individual differently, or otherwise adversely affects a term or condition of a person's working or learning environment. This includes failing to provide reasonable accommodation, consistent with state and federal law, to persons with disabilities.

All inquiries regarding the federal laws as they relate to discrimination on the basis of sex may be directed to Jen Riddei, Title IX Coordinator, Horry-Georgetown Technical College, Building 1100C, Room 107B, 2050 HWY 501 E, PO Box 261966, 843-349-5218, Jenifer.Riddei@hgtc.edu.

Student and prospective student inquiries concerning the federal laws and their

application to the College or any student decision may be directed to Dr. Melissa Batten, Vice President, Student Affairs, and Section 504 & Title II Coordinator, Horry-Georgetown Technical College, Building 1100C, Room 107A, 2050 HWY 501 E, PO Box 261966-6066, 843-349-5228, Melissa.Batten@hgtc.edu.

Employee and applicant inquiries concerning the federal laws and their application to the College may be directed to Jacquelyne Synder, Vice President, Human Resources and Employee Relations and the College's Affirmative Action/Equal Opportunity Officer, Horry-Georgetown Technical College, Building 200C, Room 205B, 2050 HWY 501 E, PO Box 261966, Conway, SC 29528-6066, 843-349-5212, Jacquelyne.Snyder@hgtc.edu.

TITLE IX REQUIREMENTS:

Title IX of the Education Amendments of 1972 protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination.

HGTC prohibits the offenses of sexual harassment, domestic violence, dating violence, sexual assault, and stalking and will provide students, faculty, and staff with necessary information regarding prevention, policies, procedures, and resources.

Any student, or other member of the college community, who believes that they have been a victim of sexual harassment, domestic violence, dating violence, sexual assault, or stalking may file a report with the college's Title IX Coordinator or campus law enforcement*.

*Faculty and Staff are required to report these incidents to the Title IX Coordinator when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

All inquiries regarding the federal laws as they relate to discrimination on the basis of sex may be directed to Jen Riddei, Title IX Coordinator, Horry-Georgetown Technical College, Building 1100C, Room 107B, 2050 HWY 501 E, PO Box 261966, 843-349-5218, Jenifer.Riddei@hgtc.edu.

PREGNANCY ACCOMMODATIONS

Under Title IX, colleges must not exclude a pregnant student from participating in any part of an educational program. Horry-Georgetown Technical College is committed to ensuring that pregnant students receive reasonable accommodations to ensure access to our educational programs.

Students should advise the Title IX Coordinator of a potential need for accommodations as soon as they know they are pregnant. It is extremely important that communication between student, instructors, and the Title IX Coordinator begin as soon as possible. Each situation is unique and will be addressed individually.

Title IX accommodations DO NOT apply to Financial Aid. Financial Aid regulations do not give the College any discretion in terms of Financial Aid eligibility.

Certain educational programs may have strict certification requirements or requirements mandated by outside regulatory agencies. Therefore, in some programs, the application of Title IX accommodations may be limited.

To request pregnancy accommodations, please complete the *Pregnancy Intake Form* that can be found [here](#).