

# Functional Anatomy

OTA1100 301

## Course Description

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Students will explore the neurological and musculoskeletal anatomy and physiology that contribute to occupational performance. By completing this course, students will be able to describe neurological structures, muscles, bones and joints and relate them to functional actions. Students will apply this knowledge to concepts of motor learning and analyzing occupational dysfunction.

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## Course Student Learning Outcomes

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- Identify key components of the central and peripheral nervous systems and explain their role in functional action.
- Formulate and communicate hypothesis of dysfunction of key components of the central and peripheral nervous systems that explain occupational performance issues.
- Explain principles of motor control and learning and relate them to neuroanatomy.

- Evaluate their clinical communication in relation to principles of motor control and learning.
- Identify skeletal structures and muscles important to occupational performance.
- Identify the actions of selected muscles and infer their role in producing occupational performance.
- Formulate and communicate hypothesis of musculoskeletal dysfunction that explain occupational performance issues.

## Course Prerequisites

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Pre-Requisite(s): Admission into the Occupational Therapy Assistant Program

Co-Requisite(s): OTA 1105 - Functional Anatomy Supervised Instruction

Semester(s) Taught: Fall

## Communication Plan

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Example language:

- I will respond to email within 48 business hours. I will offer feedback on major assignments within one week of assignment deadline. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

## Required Text or Materials

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## **Title: Visible Body Software**

For more information on textbook accessibility, contact Accessibility & Disability Services at [ads@slcc.edu](mailto:ads@slcc.edu).

## Brief Description of Assignments/Exams

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**Kinesiology Terms Worksheet:** As occupational therapy assistants, you will need to use specific and precise language to describe movement. This worksheet will help you learn these terms and serve as a quick glossary for future reference.

**Muscles Spreadsheet:** To understand your clients function and disabilities, it is necessary to have deep understanding of our anatomy. Students will complete a spreadsheet with information for each muscles movement and proximal and distal attachments. This will help you learn the material and serve as a quick reference.

Students will submit Muscles spreadsheet in OTA 1100 or 1105, where appropriate.

**Anatomy Glove:** Hands are critical to our functional performance. Think about everything your hands do – rock climbing, writing, sewing, sign language.... The resultant kinesiology and anatomy of the hand is very complex. Students will learn this anatomy by drawing hand anatomy using the Anatomy Glove Learning System. Please, bring your completed Anatomy Glove to class on the assigned day.

**Kinesiology Competency Quizzes:** Students will demonstrate competency over the material in each kinesiology unit by successfully passing a short quiz in Visible Body with a score greater than 85%. The quizzes should be performed closed book without any other resources. Students can take each competency quizzes as many times as

necessary to score above 85%. All students demonstrating an 85% competency will earn full-credit. Any student not able to score above 85% by the deadline will earn points equal to their highest score.

**Kinesiology Final:** Students will complete a comprehensive final covering kinesiology, anatomy, and function. The test will primarily consist of multiple-choice questions, with some matching, fill-in the blank, and short essay. Date of the final to be determined.

**Neuroscience Quizzes:** Students will complete quizzes focused on Neuroscience units. Quizzes will be focused on each unit. However, each unit builds upon the previous and quizzes may reflect this. Quizzes will be completed on Canvas outside of class. Quizzes will primarily consist of multiple-choice questions, with some matching, fill-in the blank, and short essay.

**Professionalism Points:** Professionalism points are designed to promote a prepared, focused learning environment and to ensure students develop the skills to become leaders in the profession of occupational therapy. As outlined in the student handbook, if you are late for class, do not attend class, not prepared, or display lack of professionalism you may lose points. Professionalism points are awarded for preparation and participation in class.

**Motor Control Self-Analysis:** This assignment will give students an opportunity to apply components of motor learning and motor control to improve their own practice. Each student will video themselves working with someone to improve a skill. Each student will then analyze their intervention, cues, and feedback in regard to three concepts from motor learning and motor control with specific ideas on how to improve performance in

the future. Students will submit a written analysis and the video recording of the intervention.

## Assignment Schedule

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Due Date	Assignment Name	Assignment Type	Points
	<a href="#">Extra Credit</a>	Assignment	0
	<a href="#">Fall 2023 Course Evaluations</a>	Assignment	0
	<a href="#">Introduce Yourself</a>	Discussion	0
	<a href="#">Kinesiology Final</a>	Assignment	75
	<a href="#">Professionalism points</a>	Assignment	42
8/26	<a href="#">Kinesiology Term Worksheet</a>	Quiz	10
9/9	<a href="#">Muscles Spreadsheet - Trunk</a>	Assignment	20
9/16	<a href="#">Muscles Spreadsheet - Neck</a>	Assignment	20
9/23	<a href="#">Neuroscience quiz A - Neuroanatomy</a>	Quiz	25
9/29	<a href="#">Kinesiology Competency Quiz 1</a>	Assignment	25
10/6	<a href="#">Neuroscience quiz B</a>	Quiz	25
10/6	<a href="#">Shoulder Spreadsheet Assignment</a>	Assignment	20

Due Date	Assignment Name	Assignment Type	Points
10/23	<a href="#">Muscles Spreadsheet - Forearm, and wrist</a>	Assignment	20
10/25	<a href="#">Neuroscience quiz B - Half Points back opportunity</a>	Assignment	0
11/12	<a href="#">Anatomy Glove</a>	Assignment	20
11/15	<a href="#">Kinesiology Competency Quiz 2</a>	Assignment	25
11/18	<a href="#">Muscle Spreadsheet - Proximal LE</a>	Assignment	20
12/5	<a href="#">Motor Control Analysis</a>	Assignment	100
12/8	<a href="#">Kinesiology Competency Quiz 3</a>	Assignment	25

## Grading Scale

Grading Scale

95.00-100%	A	78.00-79.99%	C+	60.00-63.99	D-
90.0-94.99%	A-	75.00-77.99%	C	0-59.99%	E
87.00-89.99%	B+	71.00-74.99%	C- *	*Course retake required	
83.00-86.99%	B	67.00-70.99%	D+		
80.00-82.99%	B-	64.00-66.99%	D		for C-and below

Every assignment in the program has a purpose. Each assignment is linked to learning outcomes within the program and accreditation standards. As a result, students are expected to complete and submit all assignments. If the due date is passed, instructors will work with the student to set a new deadline for assignment submission. All assignments must be submitted by the end of the semester. If assignments are not

submitted, a student may be given an incomplete grade in the course or be placed on probation.

## Late Assignments

Students are expected to submit assignments on time. The deadline for each assignment can be found in the course schedule, assignment description, and/or Canvas. If a student is uncertain about a deadline, they should ask the instructor. Late assignments that are submitted within 24 hours of the deadline will receive 50% credit. For example, if an assignment is submitted 3 hours after the deadline and earned 40 out of 50 points, the late assignment would only receive 20 points. Late assignments that are submitted more than 24 hours after the deadline will receive no credit (0%). It is required that these assignments be submitted to successfully complete the course.

## How to Navigate to Canvas

## Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

You can access the document by clicking on the following link:

<https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>

## Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, please visit the Institutional Syllabus under the Tutoring and Learning Support tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, please visit the Institutional Syllabus under the Advising and Counseling Support Services tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)

## Additional Policies

Please refer to the OTA Student Handbook for additional policies.