

NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE

COURSE SYLLABUS

Course Title: Anatomy & Physiology I Lab

Course #: BIO* 211

Description: A laboratory course component to accompany Anatomy and Physiology I lecture.
3 hours

Prerequisite/Co-requisite: Corequisite - Anatomy & Physiology I Lecture

- Goals:**
1. To give students the opportunity to study body cavities, regions, histology, using dissection, models, slides, computer simulations, and diagnostic imaging.
 2. To encourage students to learn the anatomy and physiology of the skin, skeletal, muscular and nervous system in an active and interactive manner using surface anatomy, computer simulations, models, diagnostic imaging and case studies.
 3. To introduce principles and examples of specific pathologies of each system covered using diagnostic imaging, laboratory medicine and case studies.

- Outcomes:** At the end of this laboratory course students should be able to:
- Use anatomical and directional terms
 - Identify body cavities and organs and body membranes found in each cavity
 - Identify major histological tissue types including type of epithelial, connective, muscular, and nerve tissues
 - Identify microscopic features and components for each type of tissue
 - State tissue function
 - Identify specific locations for each tissue type
 - Recognize and discuss specific terminology relating to cancer and oncology
 - Discuss the role of the histotechnician, the pathologist and the steps necessary to prepare a biopsy specimen for examination
 - Recognize histological features of skin and describe their function and relative location
 - Discuss and recognize selected skin pathologies including burns, skin cancers, and decubitus ulcers
 - Identify selected bones, bone markings, foramina, and processes using a skeleton, models, X-rays, and computer simulation
 - Discuss selected bone and joint pathologies including fracture types, osteosarcoma, bone metastasis, osteoporosis, osteomalacia, and different forms of arthritis using diagnostic imaging such as x-rays, nuclear bone scans, bone densitometry, and laboratory tests
 - Use X-rays, models, skeleton, and computer simulations to identify specific joints within the body using specific classification systems
 - Identify selected muscles and other structures such as tendons and aponeuroses important for facial expression, movement and posture using models and computer simulations
 - Identify origins, insertions, and actions for selected muscles
 - Discuss muscle pathologies including, but not limited to muscle strain, cramp fasciculation, spasms, muscular dystrophy, rhabdomyolysis, and rhabdomyosarcoma
 - Interpret diagnostic and laboratory tests associated with musculoskeletal disorders
 - Demonstrate and explain basic principles of kinesiology and dynamics of muscle activity
 - Analyze movements by identifying specific actions at joints involved with each movement
 - Write a paper describing the action sequence at specific joints to complete a specific activity and the muscles that act as prime movers, antagonists, and synergists for each action
 - Identify surface anatomy structures such as muscles, bones, and other landmarks
 - Identify histological and anatomical components of the nervous system using prepared slides, preserved materials, diagnostic imaging and computer simulation
 - Discuss selected pathologies of nerve tissue
 - Explain and discuss muscles, joints, and bones involved in two movements

College Policies

Plagiarism: Plagiarism and Academic Dishonesty are not tolerated at Northwestern Connecticut Community College. Violators of this policy will be subject to sanctions ranging from failure of the assignment (receiving a zero), failing the course, being removed/expelled from the program and/or the College. Please refer to your “Student Handbook” under “Policy on Student Rights,” the Section entitled “Student Discipline,” or the College catalog for additional information.

Americans with Disabilities Act (ADA): The College will make reasonable accommodations for persons with documented learning, physical, or psychiatric disabilities. Students should notify Dr. Christine Woodcock, the Counselor for Students with Disabilities. She is located at Green Woods Hall, in the Center for Student Development. Her phone number is 860-738-6318 and her email is cwoodcock@nwcc.edu.

School Cancellations: If snowy or icy driving conditions cause the postponement or cancellation of classes, announcements will be made on local radio and television stations and posted on the College’s website at www.nwcc.edu. Students may also call the College directly at **(860) 738-6464** to hear a recorded message concerning any inclement weather closings. Students are urged to exercise their own judgment if road conditions in their localities are hazardous.

Use of Electronic Devices: *Some course content as presented in Blackboard Learn is not fully supported on mobile devices at this time. While mobile devices provide convenient access to check in and read information about your courses, they should not be used to perform work such as taking tests, quizzes, completing assignments, or submitting substantive discussion posts.*

Sexual Assault and Intimate Partner Violence Resource Team: NCCC is committed to creating a community that is safe and supportive of people of all gender and sexual identities. This pertains to the entire campus community, whether on ground or virtual, students, faculty, or staff.

Sexual assault and intimate partner violence is an affront to our national conscience, and one we cannot ignore. It is our hope that no one within our campus community will become a victim of these crimes. However, if it occurs, NCCC has created the SART Team - Sexual Assault and Intimate Partner Violence Resource Team - to meet the victim’s needs.

SART is a campus and community based team that is fully trained to provide trauma-informed compassionate service and referrals for comprehensive care. The team works in partnership with The Susan B. Anthony Project to extend services 24 hours a day, 7 days a week throughout the year.

The NCCC team members are:

Ruth Gonzalez, PHD	860-738-6315	Green Woods Hall Room 220
Susan Berg	860-738-6342	Green Woods Hall Room 223
Kathleen Chapman	860-738-6344	Green Woods Hall Room 110
Michael Emanuel	860-738-6389	Founders Hall Annex Room 308
Seth Kershner	860-738-6481	Library
Jane O’Grady	860-738-6393	Founders Hall Annex Room 212
Robin Orloski	860-738-6416	Business Office Room 201
Patricia Bouffard, Ex-Officio	860-738-6319	Founders Hall Room 103
Savannah Schmitt		Student Representative

At NCCC we care about our students, staff and faculty and their well-being. It is our intention to facilitate the resources needed to help achieve both physical and emotional health.