

DEPARTMENT OF KINESIOLOGY AND HEALTH SCIENCES COURSE OUTLINE – Spring 2023 PE1000 (EC): STRUCTURAL ANATOMY 3 credit (3-0-2) UT 75 HRS.

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land. We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR:	Dr. Alexander Villafranca	PHONE:	780-539-2971	
OFFICE:	K220	E-MAIL:	avillafranca@nwpolytech.ca	
OFFICE HOURS:	Zoom meetings available by appointment			

CALENDAR DESCRIPTION: Introductory study of human anatomy. Students learn structural and functional components of selected systems of the human body.

PREREQUISITE(S)/COREQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS:

Main text: Martini, F.H., Ober, W.C., Bartholomew, E.F., and Nath, J.L. (2013). Visual Essentials of Anatomy and Physiology. Boston: Pearson.

Other required readings: Other required readings will be freely available and posted on D2L.

DELIVERY MODE(S): Remote/online asynchronous

A variety of methodologies will be employed including guided readings and videos, online discussion, directed activities, quizzes, and tests. To attend this course students must have a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@nwpolytech.ca

COURSE OBJECTIVES:

In this course students will:

• Learn and apply anatomical terms that are commonly used by healthcare professionals

- Describe how the major body systems are organized and identify the many components of each system
- Gain a comprehensive understanding of the musculoskeletal system, given its importance to movement professionals
- Understand how the body's structure affects its functioning

LEARNING OUTCOMES:

Through completion of this course, students will have the opportunity to:

- Communicate effectively about anatomical concepts, structures, and their relationships using appropriate terminology.
- Recognize and describe a range of anatomical structures, including systems, organs, and tissue types.
- Describe the microscopic anatomy (histology) and functional significance of various tissues and organs.
- Develop critical thinking and problem-solving skills in the context of structural anatomy.

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check to ensure the

transferability of this course at the Alberta Transfer Guide main page

http://www.transferalberta.ca

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.

COURSE SCHEDULE/TENTATIVE TIMELINE:

This course consists of three modules:

• Module 1 – Introduction to human anatomy

This shorter module will provide a broad overview of the field of anatomy, as well cover topics such as anatomical terminology, joint movements and the micro-anatomy of cells and tissues. This module will take 1 week to complete.

• Module 2 – The neuromusculoskeletal system

Due to its importance for movement professionals, the neuromusculoskeletal system will be covered in its own module. The following topics will be reviewed in depth: 1) The bones of the body and their critical markings; 2) the muscles of the body and their origins, insertions, and actions; 3) The ligaments stabilizing the major joints in the body; and 4) The nervous system, with special emphasis on structures that contribute to human movement.

This module will take 4 weeks to complete.

• Module 3 – The other organ systems

This module will cover the basic structure and functioning of the endocrine system, respiratory system, lymphatic system, digestive system, urinary system, and reproductive system.

This module will take 4 weeks to complete.

While this is an asynchronous course, the modules must be completed in order. Deadlines for the completion of each module are set to encourage adherence to timelines and to provide early feedback regarding performance. Students must complete Module 1 by May 7th, Module 2 by June 4th and Module 3 by June 30th.

EVALUATIONS:

Lecture quizzes and related activities	35%
Formative "Check your knowledge" activities	5%
(Graded as pass/fail based on completion)	
Contribution to online discussions	5%
Module 1 test	15%
Module 2 test	25%
Module 3 test	15%

GRADING CRITERIA: (The following criteria may be changed to suite the particular

course/instructor)

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha	4-point	Percentage	Alpha	4-point	Percentage
Grade	Equivalent	Guidelines	Grade	Equivalent	Guidelines
A+	4.0	90-100	C+	2.3	67-69
А	4.0	85-89	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
В	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the Northwestern Polytechnic Calendar at <u>https://www.nwpolytech.ca/programs/calendar/</u> or the Student Rights and Responsibilities policy which can be found at

https://www.nwpolytech.ca/about/administration/policies/index.html

**Note: all Academic and Administrative policies are available on the same page.

POLICY ON RECORDING OR DISSEMINATING TEACHING ACTIVITIES:

Students may not record or disseminate classroom activities (such as group activities, discussion post, quizzes, etc.). This policy is set to protect the privacy and reputation of students, to uphold the copyrights of the instructor and other content creators, and to facilitate free and open discussion of ideas. The online course environment is meant to be a psychologically safe place, where students are free to explore and think through new and controversial ideas without fear of public repercussions. Recording classroom activities can undermine this goal.

COPYRIGHT NOTIFICATION:

Any course material created by your instructor is his intellectual property and is provided to you based upon your registration for this class. As such, the material is for your private use only. It is not to be distributed, publicly exhibited, or sold without the permission of the instructor. Third party materials (such as assigned readings) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law.