

KINESIOLOGY AND HEALTH SCIENCES

COURSE OUTLINE – FALL 2024

PE1000 (A2): STRUCTURAL ANATOMY 3 credit (3-0-2) UT 75 HRS, 15 WKS.

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: Fabio Minozzo

EMAIL: fminozzo@nwpolytech.ab.ca

OFFICE: K220

OFFICE HOURS: Drop in by appointment

Lectures:

Mondays and Wednesdays: 14:30 – 15:50 (J204)

Labs:

L1 – Thursdays: 11:30 – 13:20 (L123)

L2 – Thursdays: 08:00 – 09:50 (L123)

L3 – Tuesdays: 11:30 – 13:20 (L123)

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

DELIVERY MODE(S): A variety of methodologies will be employed including lecture, discussion, lab activities, seminars group/ individual work.

This course will be mostly delivered **in class** with some online components.

- For the remote delivery component: students **should have** a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@nwp.ab.ca.
- For the onsite component: students are also recommended to bring their own laptop or tablet besides book and notebook.

POLICY ON THE RECORDING OF TEACHING ACTIVITIES: Students may not record classroom activities (such as lectures, group activities, 3rd party presentations, etc.) without the instructor's consent. This policy is set to protect students' privacy and reputation, uphold the copyrights of the instructor and other content creators, and facilitate free and open discussion of ideas. The classroom is meant to be a psychologically safe environment where students can explore and think through new and controversial ideas without fear of public repercussions. Recording lectures can undermine this goal. If permission to record an activity is granted, the recorded material can only be used for the student's own private use and is not to be posted online or otherwise distributed. The instructor will notify students in advance when someone has been granted permission to record a classroom activity. Students will also be given the option of being excused from actively participating in recorded activities. In the case of student presentations,

the recording student must show proof that the presenting student(s) have agreed to be recorded before the instructor will grant permission.

POLICY ON INSTRUCTIONAL RESOURCES AND MATERIALS: Any course resource/material should be properly used: the content created by your instructor is his/her 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, videos, et cetera) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law. **Note: posting instructional, personal notes or slides before or after classes is at the discretion of your instructor.*

POLICY ON ATTENDANCE: Attendance in this course is MANDATORY. Students are strongly recommended to attend all classes and labs; however, they must attend at least 75% of the lectures and labs. This translates to 21 lectures and 9 labs. **If a student misses more than 25% of the course (7 lectures or 3 labs), he or she will automatically fail the course and be barred from the final exam, see Final Examination Policy.** In exceptional circumstances, the instructor may allow a student to miss more classes than the minimum, but these issues will be addressed case-by-case.

PREREQUISITE(S)/COREQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS:

1. Martini, F.H., Ober, W.C., Nath, J.L. Bartholomew, E.F., and Petti, K. (2018). Visual Essentials of Anatomy and Physiology, 3rd edition. Boston: Pearson.
2. Marieb, E.N., and Jackson, P.B. (2018). Essentials of Human Anatomy and Physiology, Laboratory Manual. New York: Pearson.

LEARNING OUTCOMES:

After completing PE1000, students will be able to:

- Understand and utilize the basic language of human anatomy,
- Apply standard anatomical terms and concepts for the purpose of identification, communication and critical reading of relevant anatomical (medical) literature,
- Analyze and discuss the gross (macroscopic) and histology (microscopic) anatomy (and relevant functions) of the tissues, organs and systems of the human body,
- Develop and apply a systematic, logical thinking process to help the student work through understanding the structure and function of the human body.

COURSE SCHEDULE TENTATIVE TIMELINE:

PE1000 STRUCTURAL ANATOMY FALL 2024 SCHEDULE							
LECTURE COMPONENT			LABORATORY COMPONENT				
Mondays	TOPIC	Wednesdays	TOPIC	Wednesdays (L3)	TOPIC	Thursdays (L1 & L2)	TOPIC
2-Sep-24	No Classes	4-Sep-24	Course Presentation	4-Sep-24	Introduction to the labs	5-Sep-24	Introduction to the labs
9-Sep-24	Introduction Ch1	11-Sep-24	Cells and Tissues Ch3	11-Sep-24	L1 - Language and Systems (Ch1 and Ch2)	12-Sep-24	L1 - Language and Systems (Ch1 and Ch2)
16-Sep-24	Cells and Tissues Ch3	18-Sep-24	Cells and Tissues Ch3	18-Sep-24	L2 - Cell Anatomy (Ch3)	19-Sep-24	L2 - Cell Anatomy (Ch3)
23-Sep-24	Skeletal System Ch5	25-Sep-24	Skeletal System Ch5	25-Sep-24	L3 Tissues - (Ch5)	26-Sep-24	L3 Tissues - (Ch5)
30-Sep-24	Review	2-Oct-24	EXAM 1	2-Oct-24	L4 Bones and Skeleton (Ch7)	3-Oct-24	L4 Bones and Skeleton (Ch7)
7-Oct-24	Skeletal System Ch5	9-Oct-24	Skeletal System Ch5	9-Oct-24	L5 Skeleton (Ch8 and Ch9)	10-Oct-24	L5 Skeleton (Ch8 and Ch9)
14-Oct-24	No Classes	16-Oct-24	Muscular System Ch6	16-Oct-24	L6 Joints and Muscles (Ch 10 and Ch11)	17-Oct-24	L6 Joints and Muscles (Ch 10 and Ch11)
21-Oct-24	Muscular System Ch6	23-Oct-24	Muscular System Ch6	23-Oct-24	L7 Muscular System (Ch12)	24-Oct-24	L7 Muscular System (Ch12)
28-Oct-24	C.N.S. Ch7	30-Oct-24	P.N.S. Ch8	30-Oct-24	L8 Intro to Nervous System (Ch13)	31-Oct-24	L8 Intro to Nervous System (Ch13)
4-Nov-24	Review	6-Nov-24	EXAM 2	6-Nov-24	L9 PNS and CNS (Ch14 and Ch15)	7-Nov-24	L9 PNS and CNS (Ch14 and Ch15)
11-Nov-24	Fall Break	13-Nov-24	Fall Break	13-Nov-24	Fall Break	14-Nov-24	Fall Break
18-Nov-24	The Heart Ch12	20-Nov-24	Circulatory System Ch11	20-Nov-24	L10 Cardiovascular Syst (Ch13) and (Ch22)	21-Nov-24	L10 Cardiovascular Syst (Ch13) and (Ch22)
25-Nov-24	Endocrine System Ch10	27-Nov-24	Respiratory System Ch14	27-Nov-24	L11 Respiratory System (Ch24)	28-Nov-24	L11 Respiratory System (Ch24)
2-Dec-24	Digestive System Ch15	4-Dec-24	Urinary System Ch17	4-Dec-24	L12 Endocrine System (Ch18)	5-Dec-24	L12 Endocrine System (Ch18)
9-Dec-24	Review	11-Dec-24	EXAM PERIOD	11-Dec-24	EXAM PERIOD	12-Dec-24	EXAM PERIOD

**Note: Some of these dates may vary to facilitate student learning*

Commented [LW1]: September 30th is Truth and Reconciliation Day, no classes this day however it is a work day

EVALUATIONS:

LEARNING ACTIVITIES	5%
LAB FULFILLMENT	5%
LAB QUIZZES	15%
EXAM I	20%
EXAM II	25%
FINAL EXAM	30%
TOTAL	100%

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

Grading Chart

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	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
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

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.alberta.ca>.

**Note: 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.*

STUDENT RESPONSIBILITIES: Refer to the Polytechnic Policy on Student Rights and Responsibilities on the NWP website.

STATEMENT ON ACADEMIC MISCONDUCT: Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

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