

**DEPARTMENT OF KINESIOLOGY AND HEALTH SCIENCES**

**COURSE OUTLINE – FALL 2022**

**PE1000 (A2/B2): 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](mailto:fminozzo@nwpolytech.ab.ca)

**LAB INSTRUCTOR:** Alexander Villafranca **EMAIL:** [avillafranca@nwpolytech.ab.ca](mailto:avillafranca@nwpolytech.ab.ca)

**OFFICE HOURS:** Drop in or by appointment

**Lectures:**

Tuesdays and Thursdays: A2: 13:00-14:20 (J201) / B2: 8:30-9:50 (J203)

**Labs:**

L1 – Mondays: 08:30 – 10:20 (M119)

L2 – Fridays: 14:30 – 16:20 (M119)

L4 – Fridays: 10:30 – 12:20 (M119)

**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](mailto: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, 3<sup>rd</sup> party presentations, etc.) without instructor's consent. 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 classroom is meant to be a psychologically safe environment, where students are free to 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. Students will be notified in advance by the instructor 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 discretion of your instructor.*

**PREREQUISITE(S)/COREQUISITE:** None

**REQUIRED TEXT/RESOURCE MATERIALS:**

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

**COURSE OBJECTIVES:**

- Use and understand the anatomical terminology favoured by professionals in the health-related fields,
- Describe the major characteristics of the various systems that comprise the human body,
- Know the structural importance of anatomy to the functioning of the human body.

**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 2022 SCHEDULE (Tentative) |                          |           |                         |                      |                                       |                   |                                       |
|--|--------------------------|-----------|-------------------------|----------------------|---------------------------------------|-------------------|---------------------------------------|
| LECTURE COMPONENT  |                          |           |                         | LABORATORY COMPONENT |                                       |                   |                                       |
| Tuesdays   | TOPIC                    | Thrusdays | TOPIC                   | Mondays (L1)         | TOPIC                                 | Fridays (L2 & L4) | TOPIC                                 |
| 30-Aug-22  | no classes               | 1-Sep-22  | Course presentation     | 29-Aug-22            | no labs                               | 2-Sep-22          | L1 - Anatomical terminology           |
| 6-Sep-22   | introduction Ch1         | 8-Sep-22  | Cells and Tissues Ch3   | 5-Sep-22             | no labs                               | 9-Sep-22          | L2-Skeletal Intro                     |
| 13-Sep-22  | Cells and Tissues Ch3    | 15-Sep-22 | Cells and Tissues Ch3   | 12-Sep-22            | L1-Anatomical Terminology             | 16-Sep-22         | L3-Skeletal System joints             |
| 20-Sep-22  | Review Assignment        | 22-Sep-22 | EXAM 1                  | 19-Sep-22            | L2-Skeletal System Intro              | 23-Sep-22         | L4-Skeletal System bony markings      |
| 27-Sep-22  | Skeletal System Ch5      | 29-Sep-22 | Skeletal System Ch5     | 26-Sep-22            | L3-Skeletal System Joints             | 30-Sep-22         | no labs                               |
| 4-Oct-22   | Skeletal System Ch5      | 6-Oct-22  | Skeletal System Ch5     | 3-Oct-22             | L4-Skeletal System bony markings      | 7-Oct-22          | L5-Muscular System palpating          |
| 11-Oct-22  | Fall Break               | 13-Oct-22 | Fall Break              | 10-Oct-22            | Fall Break                            | 14-Oct-22         | Fall Break                            |
| 18-Oct-22  | Muscular System Ch6      | 20-Oct-22 | Muscular System Ch6     | 17-Oct-22            | L5-Muscular System palpating          | 21-Oct-22         | L6-Muscular System deep muscles       |
| 25-Oct-22  | Muscular System Ch6      | 27-Oct-22 | Muscular System Ch6     | 24-Oct-22            | LAB MIDTERM                           | 28-Oct-22         | LAB MIDTERM                           |
| 1-Nov-22   | Review Assignment        | 3-Nov-22  | EXAM 2                  | 31-Oct-22            | L6-Muscular System deep muscles       | 4-Nov-22          | L7-Muscular System -Shank and forearm |
| 8-Nov-22   | Central Nervous Sys Ch7  | 10-Nov-22 | Periph. Nerv. Sys. Ch8  | 7-Nov-22             | L7-Muscular System -Shank and forearm | 11-Nov-22         | no labs                               |
| 15-Nov-22  | The Heart Ch12           | 17-Nov-22 | Circulatory System Ch11 | 14-Nov-22            | L8- Tendons and ligaments             | 18-Nov-22         | L8- Tendons and ligaments             |
| 22-Nov-22  | Endocrine System Ch10    | 24-Nov-22 | Respiratory System Ch14 | 21-Nov-22            | L9 - Nervous System                   | 25-Nov-22         | L9 - Nervous System                   |
| 29-Nov-22  | Digestive System Ch15    | 1-Dec-22  | Urinary System Ch17     | 28-Nov-22            | L10 - Nervous System p2               | 2-Dec-22          | L10 - Nervous System p2               |
| 6-Dec-22   | Reproductive System Ch18 | 8-Dec-22  | Review                  | 5-Dec-22             | Review                                | 9-Dec-22          | Review                                |
| 13-Dec-22  | EXAM PERIOD              | 15-Dec-22 | EXAM PERIOD             | 12-Dec-22            | EXAM PERIOD                           | 16-Dec-22         | EXAM PERIOD                           |

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

**EVALUATION:**

|              |             |
|--------------|-------------|
| ASSIGNMENTS  | 5%          |
| LABS         | 15%         |
| EXAM 1       | 15%         |
| EXAM 2       | 20%         |
| LAB MIDTERM  | 15%         |
| FINAL EXAM   | 30%         |
| <b>TOTAL</b> | <b>100%</b> |

*\*Note: Laboratory Component: Students shall attend ALL LABS and, when necessary for the purpose of the LAB, must dress in gym attire: i.e. loose-fitting shirts, shorts and sweats, gym shoes and socks. Students must attend the lab section for which they registered as the sequence is different for L1, L2, and L4. Each absence from the LAB will result in a 10% reduction for the total lab component.*

**GRADING CRITERIA: (The following criteria may be changed to suite the particular course/instructor)**

| Alpha Grade | 4-point Equivalent | Percentage Guidelines | Alpha Grade | 4-point Equivalent | Percentage Guidelines |
|-------------|--------------------|-----------------------|-------------|--------------------|-----------------------|
| A+          | 4.0                | 90-100                | C+          | 2.3                | 67-69                 |
| A           | 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                 |
| B           | 3.0                | 73-76                 | D           | 1.0                | 50-54                 |
| B-          | 2.7                | 70-72                 | F           | 0.0                | 00-49                 |

**STUDENT RESPONSIBILITIES:**

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

**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 <https://www.nwpolytech.ca/programs/calendar/> 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.

**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**