

**Emergency Services Department
COURSE OUTLINE – Fall 2026
EM1000: Anatomy I – 3 (3-0-0) 45 Hours for 15 Weeks**

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: Greg Sikora

PHONE: TBD

OFFICE: Remote / Asynchronous

E-MAIL: gsikora@nwpolytech.ca

OFFICE HOURS:

Mon-Fri - By appointment only

CALENDAR DESCRIPTION: This course provides an in-depth study of the structures of the human body and their interrelationships using a systems approach. The correlations between structure (anatomy) and function (physiology) are noted. Major topics include body organization, the integumentary, skeletal, muscular, nervous, respiratory, cardiovascular, lymphatic, digestive, endocrine, urinary and reproductive systems, the general and special senses, and human development. This course is designed to prepare students in medical fields of study for advanced courses in their respective disciplines.

PREREQUISITE(S):

COREQUISITE(S): EM1020, EM2100, EM2200, EM2400

REQUIRED TEXT/RESOURCE MATERIALS:

The resources listed in this section are required.

Tortora, G.J., & Derrickson, B. (2020). Principles of Anatomy & Physiology, (16th C ed.). Wiley.

Students are responsible for all fees associated with ProctorU, a live proctoring service for online exams. Fees are paid when you schedule your exams through ProctorU.

Pricing per exam is as follows:

60 minutes or less - \$16 USD

61-120 minutes - \$25 USD

121 - 180 minutes - \$31 USD

SUPPLEMENTAL LEARNING RESOURCES

The resources listed in this section are optional but provide additional information to support learner success.

Gridi-Papp, Marcos, "Human Anatomy" (2015). *Pacific Open Texts*. 1.
<https://scholarlycommons.pacific.edu/open-textbooks/1/>

Instructor handouts and case studies, articles, journal references, and websites identified by Instructor.

Students are encouraged to utilize research and other resources to augment their learning and share resources with classmates by posting in the on-line discussions.

Optional:

Kapit & Elson.(2013). The Anatomy coloring Book. Pearson.

DELIVERY MODE(S):

1. Online delivery of content
2. Pre-class and assigned readings.
3. Class discussions
4. Group exercises/Laboratories
5. Online activities
6. Classroom case studies

LEARNING OUTCOMES:

1. Use appropriate anatomical terminology in verbal and written forms.
2. Explain the inter-related connection between structure and function.
3. Distinguish the anatomical components of the skeletal system.
4. Investigate the main muscles of the human body.
5. Identify components of the nervous system.
6. Examine the components of the cardiac and vascular anatomy.
7. Differentiate the components of the respiratory system.
8. Differentiate the components of the digestive system.
9. Differentiate the components of the urinary system.
10. Differentiate the components of the endocrine system.
11. Examine the components of the integumentary system.
12. Investigate the components of the lymphatic system.
13. Relate components of the reproductive system to genetics and inheritance.
14. Assess how the human body systems are inter-related.

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>.

**** 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.**

EVALUATIONS:

This course requires the completion of all assigned learning activities and assessments. This includes all graded components, as well as any mandatory ungraded components designed to support learning. Students who fail to complete any required element of the course will receive a final grade of 'F'.

Type of Assessment	Description of Assessment	Value
Forum posts	Based on amount and quality of participation	10%
Exams	Midterm	25%
Assignments	May include papers, collaborative work in groups, online quizzes	30%
Final Exam	Cumulative	35%
TOTAL		100%

Midterm 1 Exam -25%

May include multiple choice, matching and true/false questions. Date: Oct 21, 2026; 120 minutes; Time 0900

On-line forum posts -10%

This portion of the mark is based on the instructor's perception of the student's active participation in class/online discussions and online activities associated with various unit activities.

Final Exam -35%

All chapters discussed in the course will be covered. It May include multiple choice, matching and true/false questions – Dec 16, 2026; 120 minutes; Time 0900

Assignments: 30% (three assignments each worth 10%)

Assignment 1 Due Sept 11, Assignment 2 Due Oct 16, Assignment 3 Due Nov 6, by 2359

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**. A minimum of a C- must be obtained to successfully pass EM1000.

Grading Chart for courses with Alpha Grading:

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

COURSE SCHEDULE/TENTATIVE TIMELINE:

Onsite week attendance - as per onsite week schedule

EM1000 Tentative Schedule	
Week	Topic/Activity Read Chapters Prior to Classes
1	Introduction to the Human Body The Language of Anatomy Cells
2	Tissues and Membranes Integumentary System
3	Bone Tissue Skeletal System
4	Joints Muscular System
5	Respiratory System
6	Blood Vessels
7	Heart
8	The Spinal Cord and Spinal Nerves
9	The Brain and Cranial Nerves
10	The Autonomic Nervous System
11	The Special Senses
12	Urinary System Digestive System
13	Reproductive System
14	Endocrine System Lymphatic System
15	Final Exams

*Instructor reserves the right to change due dates and weeks of lesson plans, assignments, and exams as necessary to comply with yearly calendar changes. Each year, the instructor will inform the students with any schedule changes.

GENERAL COURSE EXPECTATIONS:

Participation is essential for success in this class, and if a student misses a class/lab it is the student's responsibility to obtain ANYTHING missed during class/lab. The student will be assigned a mark of zero for those assignments, exams, quizzes, labs, etc. missed. IF the student contacts the instructor PRIOR to missing any of the above forementioned, and IF the student has an acceptable excuse (the validity of the excuse is at the discretion of the instructor and will require documentation i.e., doctor's note), the student may be excused without being deducted any marks.

All assignments must be submitted by the specified deadline indicated in the course schedule or as communicated by the instructor. Assignments submitted after the deadline will receive a grade of zero.

Despite this grading penalty, students are still expected to complete and submit any late assignments. Submitted work will be reviewed, and feedback will be provided to support ongoing learning and skill development.

STUDENT RESPONSIBILITIES:

Enrolment at NWP assumes that the student will become a responsible citizen of the Institute. As such, each student will display a positive work ethic, take pride in, and assist in the maintenance and preservation of Institute property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting instructor expectations concerning attendance, assignments, deadlines, and appointments.

NWP Policies:

It is your responsibility to be familiar with the information contained in this Course Outline and the Paramedic student handbook and to clarify any areas of concern to the instructor. It is also your responsibility to be familiar with NWP Policies.

Student attendance:

Class attendance is useful for two reasons. First, class attendance maximizes a students' learning experience. Second, attending class is a good way to keep informed of matters relating to the administration of the course (e.g., the timing of assignments and exams). Ultimately, you are responsible for your own learning and performance in this course.

Pre-reading

Ensure that you do the pre-reading early, so that you have time to think about what you have read before the exam and before the class if you wish.

Preparing questions

Make a note of anything you are not clear about and prepare a question to ask early in the class to clarify your understanding. This will demonstrate your interest in the topic and indicate to the instructor that you have done the required reading.

Preparing responses

When you read, try to engage with the ideas critically and actively. Make a note of any ideas about which you have strong opinions, positive or negative. Think about how you would refer to these ideas during the class or express your views about them. What language would you use?

Note-taking during discussions and Class time.

Classes can be a very useful source of ideas on a topic, not only from the instructor, but also from other participants. Make a note of any ideas which may be useful to you in writing assignments or broadening your reading. In most small classes there is an expectation that you will contribute actively to the discussion and not simply be a 'silent participant'. In some courses marks are given for active participation in class.

Learn people's names.

Make a conscious effort to learn -and use -the names of all the other people in the class. This includes the students at the alternate site while using video conferencing.

Using visualization

Every class you attend is also a preparation for the next class. At the end of a class, play it back in your mind, not just for the content and ideas, but remembering responses, and the sort of language used. Then, before the next class, think about the questions and comments you have thought of, and visualize in your mind how the discussion will go. Most importantly, imagine yourself taking part: using people's names, getting their attention, asking questions, and commenting on what you've read and on what other people are saying. The more positively you do this, the more it will help you in class.

Exams, Quizzes and Assignments

The instructor of the course will provide the date of all exams, quizzes, and assignments for the course during the first week of instruction. This course may require students to write remotely proctored examination(s), either online or within an approved location with a proctor present. Review the Paramedic Student's Handbook for specific information regarding proctored assessment(s).

Onsite Weeks

Course content delivery, quizzes, exams, and assignments may occur during onsite weeks. It is the student's responsibility to attend the onsite week and meet academic timelines/requirements.

STATEMENT ON ACADEMIC and NON-ACADEMIC MISCONDUCT:

Misconduct will not be tolerated. For a more precise definition of academic and non-academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at <https://www.nwpolytech.ca/about/polytechnic-leadership/policies-directory>.

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

Additional Information:

Northwestern Polytechnic provides various academic support services to support your journey to success. Please be aware that personal counseling, peer tutoring, learning library services, Elders and mentors, and disability services are provided at your campus. Please inquire about contact details or locations at the Information desk.

USING PROCTORU:

This course uses ProctorU Live for online exams. To utilize this service, you are required to complete the following steps:

- Create a ProctorU account by clicking the ProctorU link in the course.
- Download and install the Guardian Web Browser, Google Chrome, and the ProctorU extension.
- Schedule each exam at least 3 days (72 hours) in advance. If you miss this deadline, you cannot take the exam.
- Pay for the proctoring service. The fees are exclusively your responsibility and in no event shall be the responsibility of Northwestern Polytechnic.

For more detailed instructions [click here](#), and for video instructions [click here](#).

Before each exam, you must complete a room scan with your web camera, during which you will show your surroundings to a live proctor.

The invigilator will ask to view (but not collect or store) your student identification to verify your identity and will remotely access your computer to unlock the exam. When monitoring your actions via video streaming, the invigilator may possibly record your actions if they suspect academic integrity behavioural issues. You will be verbally notified if/when recording begins.

The personal information collected through ProctorU is collected under the authority of the *Post-Secondary Learning Act* (s. 65) and the *Protection of Privacy Act* (ss. 4(a) & (c)). This information is used to verify your identity, monitor exam conditions, and address potential academic integrity concerns during your online exam.

NWP may input the collected personal information into automated systems to fulfill the purposes stated above. This may include activities such as flagging potential academic integrity concerns for review.

Questions regarding the collection of this personal information can be directed to:

The Office of the Vice-President Academic – Northwestern Polytechnic – VPAR@NWPolytech.ca

Records Retention: Any video records of you created by ProctorU will be kept by ProctorU for a maximum of 7 days in order to make a decision about any possible academic integrity infraction, after which time it shall be permanently deleted. All other personal information collected and stored by ProctorU within your profile account will be permanently deleted if the account has not been used after one year.

Consent to Store Personal Information Outside Canada

ProctorU is an American company. An agreement is in place between ProctorU and Northwestern Polytechnic by which ProctorU will take reasonable steps to protect your personal information from unauthorized access and disclosure. Information about how ProctorU protects your privacy can be found at <https://www.measurelearning.com/privacy-policy>.

By using the ProctorU service via Northwestern Polytechnic, you consent to the storage of and access to your personal information outside of Canada.

This consent is in effect from the day you register with ProctorU and expires one year after completion of your exam.

Additional privacy and liability information regarding the use of ProctorU is available on the NWP website.

Course Topics

1. Introduction to the Human Body
2. The Language of Anatomy
3. Cells
4. Tissues and Membranes
5. Integumentary System
6. Bone Tissue
7. Skeletal System
8. Joints
9. Muscular System
10. Respiratory Systems
11. Blood Vessels
12. Heart
13. The Spinal Cord and Spinal Nerves
14. The Brain and Cranial Nerves
15. The Autonomic Nervous System
16. The Special Senses Urinary System
17. Digestive System
18. Reproductive System
19. Endocrine System
20. Lymphatic System