

DEPARTMENT OF PRACTICAL NURSE AND HEALTH CARE AIDE

COURSE OUTLINE – Winter 2025

NP1500 (A3): Anatomy and Physiology – 6 (6-0-0), 90 hours in 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: Beatrice Amar, Ph.D. **PHONE:** 780-539-2031
OFFICE: J208/HEC **E-MAIL:** Bamar@NWPolytech.ca
OFFICE HOURS: Mon to Thursday 11.30 a.m. -12.30 p.m. (J208/HEC) or by appointment

CALENDAR DESCRIPTION:

Introduction to the structure, organization, and functions of the human body.
Note: Available only to Practical Nursing students.

PREREQUISITE(S): Biology 30 or equivalent

COREQUISITE: NP1205, NP1250, NP1280

REQUIRED TEXT/RESOURCE MATERIALS:

Patton, Bell, Thompson and Williamson (2025) Structure and function of the body. 17th Edition.
Elsevier Canada (ISBN: 9780323871730)
The study guide at the bookstore is optional.

DELIVERY MODE(S): Lecture: Tuesday & Friday 8.30 a.m. – 11.20 a.m. (HEC 206)

LEARNING OUTCOMES:

Upon successful completion of NP1500, learners will be able to:

1. To gain further understanding of the structures and physiological processes of the human body.
2. Demonstrate critical thinking skills with respect to anatomy, physiology and principles of microbiology.
3. Develop knowledge of medical terminology.
4. To gain an understanding of anatomy and physiology that will facilitate future work in the medical field.

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**

EVALUATIONS:

Student assessments will be conducted as given below:

Academic Evaluation	Weight	Date	Related Course Learning Outcomes
Midterm Exam #1	30%	Week 5	1,2,3,4
Midterm Exam #2	30%	Week 10	1,2,3,4
Final Exam	30%	During Final Exam Week	1,2,3,4
Assignments			
1. Study Aid Drawings	5%	TBA	1,2,3,4
2. Practice quizzes	5%	TBA	

1. Midterm Exam #1 - all content up to week 4
2. Midterm Exam #2 - content from week 5 to week 9
3. Final Exam - content from week 10 to 15

Question format includes a variety of styles including, but not limited to multiple choice, short answer, long answer, matching, and select all that apply. Scheduling of the final exam is set by the Registrar's Office.

GRADING CRITERIA:

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

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

PROGRESSION CRITERIA

Academic Progression Criteria

A grade of C- is the minimum passing grade for all Practical Nursing courses in the program. For promotion from term to term in the program and for graduation, students must have successfully completed all the required Practical Nursing and non-Practical Nursing courses of the previous term.

A student with a GPA of 1.69 or lower must withdraw from the Practical Nursing program. Readmission to the program is subject to departmental review. Students who withdraw or fail twice from a required practical nursing course will be withdrawn from the program and ineligible for re-admission.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week	Topic	Text Resource
Week 1	Introduction to the body Chemistry of life and cells	Chapter 1 Chapter 2 and 3
Week 2	Tissues and Organ systems The Integumentary System	Chapter 4 and 5 Chapter 6
Week 3	The Skeletal System The Muscular System	Chapter 7 Chapter 8
Week 4	The Nervous System	Chapter 9
Week 5	Review Class Midterm #1*	
Week 6	Senses Endocrine System	Chapter 10 Chapter 11
Week 7	Blood Cardiovascular system	Chapter 12 Chapter 13
Week 8	Lymphatic system and Immunity	Chapter 14
Week 9	The Circulation of Blood and Lymph Immune Response	Chapter 30, 31 Chapter 32,33
Week 10	Review Class Midterm #2 *	
Week 11	The Respiratory System	Chapter 15
Week 12	The Digestive System	Chapter 16
Week 13	The Urinary System and Fluid Balance	Chapter 18 and 19
Week 14	Reproductive system Growth and Development	Chapter 21 Chapter 22
Week 15	Review Class Final Exam	

***subject to change**

STUDENT RESPONSIBILITIES:

Students are expected to attend **all** class sessions. All assignments must be completed in full and handed in by the date specified.

Refer to NWP Academic Policies <https://www.nwpolytech.ca/about/administration/policies/>

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.

ADDITIONAL INFORMATION

Assignment description

Assignment	Grade weightage	Description/Rubric	Tentative deadline
Study aid drawings (3 sets)	5%	Four labelled diagrams per chapter - completion mark	Due on the midterm and final exam days
Practice quiz/Review assignment One per unit (Total 6 units)	5%	Practice quiz/Review assignment completion mark	TBA in class