

DEPARTMENT OF NURSING EDUCATION AND HEALTH SCIENCES

COURSE OUTLINE – Winter 2023

NP1500 (A3): Anatomy and Physiology – 6(6-0-0), 90 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: Beatrice Amar, Ph.D. **PHONE:** 780-539-2031
OFFICE: J208 **E-MAIL:** Bamar@NWPolytech.ca
OFFICE HOURS: Mon & Wed : 1 - 3 p.m. 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, NL1250, NL1280

REQUIRED TEXT/RESOURCE MATERIALS:

Patton, Bell, Thompson and Williamson (2022) Anatomy and Physiology. 11th Edition. *Elsevier Canada*
ISBN: 9780323775717

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

COURSE OBJECTIVES:

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 a fundamental understanding of anatomy and physiology that will facilitate future work in the medical field.

LEARNING OUTCOMES:

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

1. Identify anatomical structures and physiological processes of the human body.
2. Describe relationships between structure, organization, and function.
3. Describe relationships between systems and homeostasis.
4. Use appropriate medical terminology

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	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

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
Unit 1 The Body as a whole	Week 1	The Human Body- levels of organization Biomolecules & Homeostasis	Chapter 1 & 3 Chapter 2
	Week 2	Cells and Tissues The Integumentary System	Chapter 5,6,7 Chapter 8 & 9
Unit 2 Support and Movement	Week 3	The Skeletal System The Muscular System	Chapter 10,11,12,13, & 14
Unit 3. Communication, control and Integration	Week 4	The Central Nervous System	Chapter 18,19,20
	Week 5	Review Class Midterm #1*	
	Week 6	The Peripheral Nervous System The Autonomic Nervous System	Chapter 21, 22
	Week 7	The Sense Organs Endocrine Regulation	Chapter 23, 24 Chapter 25, 26
Winter break Feb 21 - 24, 2023- No classes			
Unit 4 Transportation and Defense	Week 8	The Circulatory System: Blood The Circulatory System: The Heart	Chapter 27 Chapter 28, 29
	Week 9	The Circulation of Blood and Lymph Immune Response	Chapter 30, 31 Chapter 32,33
	Week 10	Review Class Midterm #2 *	
Unit 5 Respiration, Nutrition and Defense	Week 11	The Respiratory System	Chapter 35,36,37
	Week 12	The Digestive System	Chapter 38,39,40
	Week 13	The Urinary System and Fluid Balance	Chapter 42,43,44
Unit 6 Reproduction and Development	Week 14	Male reproductive system Female reproductive system Growth and Development	Chapter 45,46,47
	Week 15	Review Class Final Exam	

*subject to change

STUDENT RESPONSIBILITIES: Students are expected to attend **all** classes and laboratory sessions. All assignments must be completed in full and handed in by the date specified. Students must attend laboratory sessions and complete each exercise in order to receive credit for the lab reports.

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.

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