

Department of Nursing Education and Health Studies

COURSE OUTLINE – Fall 2026

NS1500 (A2/B2/C2): Anatomy & 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:	Mr. Kellar Klein, MSc	PHONE:	780.539.2219
OFFICE:	HEC365	E-MAIL:	kklein@nwpolytech.ca
OFFICE HOURS:	By appointment		

CALENDAR DESCRIPTION:

Introduction to the structure of the human body and an introduction to human physiology. Note: Available only to Nursing students.

PREREQUISITE: Biology 30 or equivalent.

DELIVERY MODE: Lectures in person

LEARNING OUTCOMES:

Upon successful completion of this course, a student will have a working knowledge of the structure and function of the human body.

REQUIRED MATERIALS:

Saladin, K.S. (2023), Anatomy and Physiology : The Unity of Form and Function, 10th ed., (or 9th ed. 2020) WCB / McGraw-Hill, Boston MA, ISBN 9781265782801

NS1500 Study Aid – Available at the bookstore.

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check the transferability of this course at the Alberta Transfer Guide main page <http://www.transferralberta.alberta.ca>.

Please note that a grade less than C+ is not accepted for transfer to the U of A for NURS 106 (previously NURS 140 and 150). A minimum grade of C+ is required to receive credit in NS1500.

**** For courses with alpha (letter) grading, a 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:

Assignment	15%	A medical note will be required to defer an exam due to illness.
Exam 1	15%	
Exam 2	20%	
Final Exam	25%	
Completed Study Aid	5%	
Quizzes	10%	
Participation	10%	
Total	100%	

GRADING CRITERIA:

Please note that most institutions 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

COURSE SCHEDULE/TENTATIVE TIMELINE:

Lecture	Topic	Chapter
1	Terminology Introduction to Anatomy Orientation to Human Anatomy Introduction to physiology, Homeostasis, Feedback mechanisms & Gradients	1.7 1.1, 1.5 Atlas A 1.6
2	The Chemistry of Life Enzymes & Metabolism	2 2.4f, 26.2, 26.3, 26.5
3	Cell Structure & Function	3
4	Genes, Replication, Transcription, Translation & The Cell Cycle Tissues & Tissue Repair	4 5
5	The Integumentary System	6
6	Bone Tissue	7
6	The Axial and Appendicular Skeletal Systems	8
7	Selected Joints	9
8	The Muscular System	10
8	Muscle Tissue	11
9	Nervous Tissue	12
10	The Spinal Cord, Spinal Nerves & Somatic Reflexes	13
11	The Brain and Cranial Nerves	14
12	The Autonomic Nervous system	15
13	Sense Organs	16
14	The Endocrine System	17
15	The Circulatory System: Blood	18
16	The Circulatory System: The Heart	19
17	The Circulatory System: Blood Vessels	20
18	The Lymphoid and Immune Systems	21
19	The Respiratory System	22
20	The Urinary System	23
November 9-13: Fall Break		
21	Fluid, Electrolyte, and Acid-Base Balance	24
22	The Digestive System	25
23	The Male Reproductive System	27
24	The Female Reproductive System	28
25	Human Development	29
26	Catch-up/Review	
Final Exam (Scheduled by the Registrar's Office)		

*subject to change, please see myClass for more current schedule

STUDENT RESPONSIBILITIES:

Refer to the Northwestern Polytechnic Policy on Student Rights and Responsibilities at:

<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

<https://www.nwpolytech.ca/about/polytechnic-leadership/policies-directory>.

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

COMMUNICATION:

Students must use their NWP e-mail address and include a subject line when communicating with the course instructor and other faculty members. The content messages of both e-mail and voice mail must be delivered in a professional manner. Inappropriate messages may be considered “harassment.” Refer to the Code of Student Behaviour Section 30.3.4(6) d. Inappropriate use of e-mail sent to fellow students and members of the Faculty of Nursing will result in disciplinary action. Please refer to the University of Alberta/NWP Collaborative Faculty of Nursing’s guidelines for e-mail etiquette, the link is provided:

<https://www.ualberta.ca/en/toolkit/digital-and-creative/email-best-practices/index.html>

The use of social networking services such as, but not limited to, Facebook, Instagram, Snapchat, Tik Tok, Twitter, WhatsApp, internet messaging, blogs, and wikis, are subject to the professional and ethical responsibilities outlined in the Canadian Nurses Association (2017) Code of ethics for registered nurses, and the University of Alberta Code of Student Behaviour, Section 30.3.3 Inappropriate Behaviour in Professional Programs.

COURSE MATERIAL AND ANNOUNCEMENTS:

The Northwestern Polytechnic Faculty of Nursing creates a myClass online site for all undergraduate nursing courses. Students are expected to access and become familiar with their myClass online site at the beginning of each course and to access their myClass online site on a regular basis throughout the course. Failure to do so may result in students missing important course-related information, resources, instructor feedback, and announcements. General Northwestern Polytechnic Faculty of Nursing (FON) and course announcements will be available on myClass online site.

LATE ASSIGNMENT POLICY:

To obtain credit in the course ALL assignments, examinations, and quizzes weighted 10% or greater must be completed to obtain credit in the course and permitted to write the final examination, if applicable.

Students are expected to make every effort to complete assignments on time. Assignment submissions are expected on the date determined by faculty. If extensions are necessary, they may be requested up to 48 hours prior to the assignment due date and should be submitted in writing to the faculty member

involved. Not all extensions will be granted. In exceptional situations, extension requests within the 48-hour period may be considered.

Late assignments will have 5% of total marks (or one letter grade) for the assignment deducted for each day/partial day (including weekend days) beyond the due time. For example, a paper marked at B+ would receive an adjusted grade of B if handed in one day late. After 5 days, a grade of 0 will be awarded to the assignment. If the late penalty places the grade below the necessary pass grade, students will be unsuccessful in the course. When submitting assignments electronically, it is the student's responsibility to ensure the assignment has been received. Papers/assignments may not be rewritten for a higher grade. Concerns regarding grading are to be discussed with the faculty member involved.

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 College Calendar at <https://www.nwpolytech.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.nwpolytech.ca/about/administration/policies/index.html>

AI USE DISCLOSURE:

The use of Artificial Intelligence (AI) tools is not encouraged for completing any assignments within this course, including weekly critical reflections. Students who choose to use AI tools must disclose and reference their use appropriately. AI tools may be used only for supportive purposes (e.g., checking grammar, APA formatting) if needed. AI tools **MUST NOT** be used for generating ideas, analysis, or original written content.

Students who use AI tools must include the following:

- An Appendix at the end of the assignment titled "AI Use Disclosure."
- Include the exact prompts entered into the AI tool.
- Include the full or summarized AI-generated responses used.
- Briefly explain how the tool was used (e.g., "used to check APA formatting").
- An in-text acknowledgment at the end of the assignment:
- "[AI tool name] was used for [purpose]. All outputs were reviewed prior to assignment submission. Prompts and outputs are provided in the Appendix."

For example:

OpenAI's ChatGPT 4o was used for APA formatting. All outputs were reviewed prior to assignment submission. Prompts and outputs are provided in the Appendix.

Failure to disclose AI use may be considered academic misconduct under Northwestern Polytechnic's Academic Integrity Policy. Failure to uphold your assigned obligations will result in a grade of zero of any assignment.