



DEPARTMENT OF SCIENCE

COURSE OUTLINE – Fall 2020

NS1500 - Anatomy and Physiology – 6(6-0-0) 90 Hours 15 Weeks

INSTRUCTORS:	Dr. Sean Irwin Ph.D. (Section A2)	Dr. Beatrice Amar Ph.D. (Section B2)
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OFFICE:	J224	J208
OFFICE HOURS:	M/W 1 - 2:30 pm	W/R/F 2:30 – 4 pm
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FALL 2020 DELIVERY:

Remote Delivery. This course is delivered remotely. There are no face-to-face or onsite requirements. Students must have a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@gprc.ab.ca.

CALENDAR DESCRIPTION:

NS1500 6 (6-0-0) UT 90 Hours 15 Weeks

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

PREREQUISITE(S)/COREQUISITE: Biology 30 and Chemistry 30 or equivalents.

REQUIRED TEXT/RESOURCE MATERIALS:

Saladin, K.S. (2018), Anatomy and Physiology : The Unity of Form and Function, 8th ed., (or 7th ed. 2015) WCB / McGraw-Hill, Boston MA, ISBN 9781259277726

DELIVERY MODE(S): Lectures – A2: Mon. and Wed. 14:30 – 17:20, Remote
B2: Mon. and Wed. 8:30 – 11:20, Remote

LEARNING OUTCOMES:

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

COURSE OBJECTIVES:

1. To gain further understanding of the structure and function of the human body.
2. To develop critical thinking skills with respect to the anatomy and physiology of the human body.
3. Integrate clinical situations with the underlying physiological principles and concepts.
4. Demonstrate critical thinking skills in relation to the study of physiology.
5. To gain an understanding of anatomy and physiology that will facilitate future work in the medical field.

TRANSFERABILITY:

UA, UC, UL, AU, GMU

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.

***Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferalberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

**** 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:

Exam I	20%	- In order to defer an exam due to
Exam II	22.5%	illness you will require a medical
Exam III	22.5%	note.
Final Exam	25%	
Practice Exams	5%	
Completed Study Aid	<u>5%</u>	
Total	100%	

GRADING CRITERIA:

Please note that the University of Alberta requires a C+ in this course to transfer as a Nursing course.

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

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week	Topic	Chapter
1	Introduction to anatomy; The Chemistry of Life - Orientation to Human Anatomy Introduction to physiology; Homeostasis and Feedback mechanisms - Enzymes and Metabolism	2 Atlas A 1
2	Anatomy of the Cell and Histology Membrane Transport and Cellular respiration Cellular Function – Protein Synthesis and DNA Replication	3 and 5 4 and 26

3	The Integumentary System Bone Tissue	6 7
4	The Axial and Appendicular Skeletal Systems Selected Joints	8 9
5	The Muscular System Muscle Tissue Exam I - Sept. 30 – A2/ B2	10 11 Weeks 1 -4
6	The Spinal Cord and Spinal Nerves Nervous Tissue - Somatic Reflexes	13 12
7	Fall Break	
8	The Brain and Cranial Nerves - CNS Function and Processing The Autonomic Nervous System	14 15
9	Sense Organs The Endocrine System Exam II – Oct. 28 – A2/ B2	16 17 Weeks 5 -8
10	The Circulatory System: Blood The Lymphatic and Immune System	18 21
11	The Circulatory System: The Heart The Circulatory System: Blood Vessels Remembrance Day – November 11 th	19 20
12	The Respiratory System Exam III – Nov. 18 – A2/ B2	22 Weeks 9 – 11
13	The Urinary System The Digestive System	23 25
14	The Female Reproductive System The Female Reproductive System	27 27
15	The Male Reproductive System Human Development	28 29
	Final Exam (Scheduled by the Registrar’s Office)	Weeks 12 - 15

STUDENT RESPONSIBILITIES:

The College Policy on Students Rights and Responsibilities can be found at

<https://www.gprc.ab.ca/about/administration/policies/>

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 <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>

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