



DEPARTMENT OF SCIENCE

COURSE OUTLINE – Fall 2015

NS 1500 - Anatomy and Physiology

INSTRUCTOR: Dr. Sean Irwin, Ph.D. **PHONE:** 539-2860 (W); 567-2226 (H)

OFFICE: J 221 **E-MAIL:** sirwin@gprc.ab.ca

OFFICE HOURS: Tues. and Thurs. 1 - 2:20 am
Fri. 8:30 – 9:50 am

DELIVERY MODE(S): Lectures – A2: Mon. and Wed. 8:30 – 11:20, B 201
B2: Tues. and Thurs. Fri. 10 – 12:50, B 201

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

REQUIRED TEXT/RESOURCE MATERIALS:

Saladin, K.S. (2015), Anatomy and Physiology : The Unity of Form and Function, 7th ed., (or 6th ed. 2012) WCB / McGraw-Hill, Boston MA, ISBN 978-0-07-340371-7

CALENDAR DESCRIPTION:

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

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

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.

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	Exam I – 20% The Axial and Appendicular Skeletal Systems Selected Joints	Weeks 1 -3 8 9
5	The Muscular System Muscle Tissue	10 11

6	The Spinal Cord and Spinal Nerves	13
	Nervous Tissue - Somatic Reflexes	12
7	Exam II - 25%	Weeks 4 -6
	The Brain and Cranial Nerves	14
	- CNS Function and Processing The Autonomic Nervous System	15
8	Sense Organs	16
	The Endocrine System	17
9	The Circulatory System: Blood The Lymphatic and Immune System	18 21
10	Exam III – 25%	Weeks 7 – 9
	The Circulatory System: The Heart	19
	The Circulatory System: Blood Vessels	20
11	The Respiratory System	22
	The Urinary System	23
12	The Digestive System The Female Reproductive System	25 27
13	The Male Reproductive System	27
	The Female Reproductive System	28
14	Human Development	29
	Final Exam (Scheduled by the Registrar’s Office) - 30%	Weeks 10 - 14

EVALUATIONS:

Exam I	20%	- In order to defer an exam due to
Exam II	25%	illness you will require a medical
Exam III	25%	note.
Final Exam	<u>30%</u>	
Total	100%	

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

STUDENT RESPONSIBILITIES:

Refer to the College Policy on Student Rights and Responsibilities at
www.gprc.ab.ca/d/STUDENTRIGHTSRESPONSIBILITIES

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the College Student Misconduct: Academic and Non-Academic Policy at
www.gprc.ab.ca/d/STUDENTMISCONDUCT

**Note: all Academic and Administrative policies are available at
www.gprc.ab.ca/about/administration/policies/

UNIVERSITY TRANSFER (If applicable):

**** 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.**

Please refer to the Alberta Transfer guide for current transfer agreements:
www.transferralberta.ca