



School of Health, Education and Human Services

ANAT 1101

Anatomy and Physiology

Term: Fall 2021

Number of Credits: 6



Course Outline

INSTRUCTOR: Liris Smith

E-MAIL: lsmith@yukonu.ca

COURSE DESCRIPTION

This comprehensive course introduces the structure of the human body and its relationship to the function and integration of the twelve body systems as well as how they work to maintain homeostasis. Learners will gain an in depth understanding of the organization of the human body from the chemical and cellular level to the tissues, organs, and organ systems. This course will also facilitate understanding of the terminology associated with the human body.

COURSE REQUIREMENTS

Prerequisite(s): None

EQUIVALENCY OR TRANSFERABILITY

See Bow Valley College transferability information @ <https://bowvalleycollege.ca/student-resources/academic-services/transfer-credits>

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Demonstrate knowledge and comprehension related to structure of the human body.
- Demonstrate knowledge and comprehension related to the function of the human body.
- Use appropriate anatomical terminology in identifying and describing the different structures of the human body
- Explain how the organs and systems affect the maintenance of homeostasis
- Describe the interdependency of the twelve human body systems

COURSE FORMAT

This course will include a total of 90 hours of on-line learning, in-person classes, quizzes, midterms, and final exams. A combination of synchronous (virtual real-time class meetings through Zoom), asynchronous (web-

based via Moodle) and in-person learning activities may be provided. Learning activities may include but are not limited to facilitator-led learning, projects, in-class, and on-line exercises.

ASSESSMENTS

COURSE LEARNING OUTCOME(S)	ASSESSMENT	WEIGHT
1, 2, 3, 4, 5	Learning activities	15%
1, 3, 5	Exam 1	25%
1, 2, 3, 4, 5	Exam 2	30%
1, 2, 3, 4, 5	Exam 3	30%

Important: For details on each assignment and exam, please see your Course Offering Information.

Grading will be according to the Bow Valley College letter grade template (below). An overall minimum final mark for this course must be **64%, letter grade C. A grade point value 2.0 is required to pass this course.** Please consult with your program area or contact your program chair for further details.

A minimum Grade Point Average of 2.0 is required for graduation.

GRADE	PERCENTAGE	GRADE POINT	DESCRIPTION
A+	95-100	4.0	Exceptional: superior knowledge of subject matter
A	90-94	4.0	Excellent: outstanding knowledge of subject matter
A-	85-89	3.67	
B+	80-84	3.33	
B	75-79	3.0	Very Good: knowledge of subject matter generally mastered
B-	70-74	2.67	
C+	67-69	2.33	
C	64-66	2.0	Satisfactory/Acceptable: knowledge of subject matter adequately mastered
C-	60-63	1.67	
D+	57-59	1.33	
D	50-56	1.0	Minimal Pass
F	Less than 50	0.0	Fail: an unsatisfactory performance

COURSE WITHDRAWAL INFORMATION

Refer to the YukonU website for important dates.

TEXTBOOKS & LEARNING MATERIALS

www.yukonu.ca

Thompson, G. (2019). *Understanding anatomy & physiology: A visual, auditory, interactive approach* (3rd ed.). Philadelphia: F.A. Davis Co.

Thompson, G. (2019). *Workbook to accompany understanding anatomy & physiology: A visual, auditory, interactive approach* (3rd ed.). Philadelphia: F. A. Davis Co.

RELATED COURSE REQUIREMENTS

It is highly recommended that all students have access to a computer or other device and Internet to do their studies. The minimum specifications for a student device are as follows:

Requirement	Windows-based PC	Apple Mac/macOS-based PC
Operating System	Windows 10	macOS X
Web Browser	Firefox, Edge, or Google Chrome	Firefox, Edge, or Google Chrome
RAM/Memory	4 GB	4 GB
Storage	5 GB of available space	5 GB of available space

ACADEMIC INTEGRITY

Students are expected to contribute toward a positive and supportive environment and are required to conduct themselves in a responsible manner. Academic misconduct includes all forms of academic dishonesty such as cheating, plagiarism, fabrication, fraud, deceit, using the work of others without their permission, aiding other students in committing academic offences, misrepresenting academic assignments prepared by others as one's own, or any other forms of academic dishonesty including falsification of any information on any Yukon University document.

Please refer to Academic Regulations & Procedures for further details about academic standing and student rights and responsibilities.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon University Academic Regulations (available on the Yukon University website). It is the student's responsibility to seek these accommodations by contacting the Learning Assistance Centre (LAC): LearningAssistanceCentre@yukonu.ca.

TOPIC OUTLINE

Part 1: Overview of basic structure and function of the human body

- Organization
- Chemistry
- Cells and microbiome
- Tissues
- Integumentary system

- Introduction to body systems
- Introduction to fluid, electrolyte, and acid base balances

Part 2: Comprehensive review of structure and function of the human body

- Nervous system
- Endocrine system
- Blood and cardiovascular system
- Respiratory system
- Lymphatic system and immunity
- Urinary system
- Fluid, electrolyte, and acid base balances
- Digestion, nutrition, and metabolism
- Skeletal system
- Muscular system
- Sensation and sense organs
- Reproductive system

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