



School of Health & Human Services
Continuing Education

MEDL 412V 001
Anatomy & Physiology
Fall 2014

Course Outline

Instructor: Cathy Bouthillier
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This course provides an overview of the anatomy and physiology of the human body with a major focus on the major body systems and related disorders and diagnostic tests. These would include the integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic/immune, endocrine, reproductive, urinary, respiratory and digestive systems.

Learning Outcomes

At the end of the course module the student will be able to:

- 1) Demonstrate understanding of the basic elements of medical terminology and special situations to consider in specimen collection
- 2) Define and use correct terminology and measurements used in the lab
- 3) Understand common medical terminology prefixes and suffixes and medical abbreviations and demonstrate knowledge of how terms are formed.
- 4) Demonstrate how units of measure are used in the Laboratory
- 5) Demonstrate knowledge of mass and volume unit conversions and the use of 24 hour clock.
- 6) Demonstrate knowledge of the human body systems and some major functions and related Medical Lab tests relevant to the body systems:
 - a) Identify the 11 body systems and describe their primary functions and structures
 - b) Identify the primary diseases and disorders relevant to each body system
 - c) Identify the Medical Lab tests associated with each system's diseases and disorders
- 7) Demonstrate understanding of terminology and special situations to consider in specimen collection
- 8) Define and use correct terminology and measurements used in the lab

Evaluation of Learning

Assignment 1	10%
Assignment 2	10%
Quiz 1	20%
Quiz 2	20%
Final Exam	40%

Passing Grade

The passing grade this course is 65 % (C+).

Grading System

Percentage	Grade	Description
90-100	A+	
85-89	A	
80-84	A-	
77-79	B+	
73-76	B	
70-72	B-	
65-69	C+	<i>Minimum grade to successfully complete Med Lab Assistant theory courses.</i>
60-64	C	
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.
0-49	F	Minimum level has not been achieved.

Important Notes

- Please arrive on time. The instructor will begin class on time.
- This course emphasizes experiential learning. Students are expected to attend all classes and to participate in class discussions and activities. Consistent attendance and participation is critical for success.
- The college provides many services to students; please contact the Registration department at either campus. Please note that not all services may apply to Continuing Education (CE) students. CE students are not contributing members of Camosun College Student Society (CCSS) and therefore do not pay CCSS fees or receive member benefits with their Photo ID.
- Please complete and submit the written assignment on the designated date at the beginning of the class. Marks will be deducted at 15% per day for a late assignment.
- It is your responsibility to obtain course material if absent from class.
- Please have pagers and cell phones on "mute" and leave room to return emergency phone calls.
- Please tidy up your area before you leave.
- All Camosun policies are available in PDF format at <http://camosun.ca/about/policies/> or in the current print credit calendar. Please refer to the section Academic Policies & Procedures for information on Student Conduct, Student Appeals, Standards of Academic Progress and more. Please note that not all policies apply to Continuing Education (CE) students. Please refer to the *Student Guide for Continuing Education* or the Medical Lab program <http://camosun.ca/learn/programs/medical-laboratory-assistant/> for more information.

Detailed Course Schedule

- Oct 21 Overview of instructor and classroom expectations
- Introduction to Medical Terminology (text p107-119)
- Oct 23 Introduction to Laboratory Math and Measurement (text p487-491)
- Introduction to Anatomy and Physiology (text p122-128)
- Regional, Directional And Sectional Terminology
 - Levels Of Organization
 - Homeostasis
- Oct 28 Integumentary system (text p131-135)
- Functions
 - Structure
 - Disorders
 - Diagnostic Tests

Skeletal system (text 128-129)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Hand out Assignment #1 (10%) – Due Nov 14th

Oct 30

Assignment #1 due

Muscular system (text 129-131)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Nervous system (text 135-137)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Nov 4

Quiz#1 (20%) (covers to the end of the Nervous system)

Cardiovascular system (text 153-184)

- Functions
- Structure
 - *Blood And It's Components
 - *Serum vs. Plasma
 - *Veins and Arteries
 - *Heart
- Disorders
- Diagnostic Tests

Nov 6

Respiratory system (text 146-150)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Nov 13

Lymphatic/Immune system (text 184-186)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Endocrine system (text 137-141)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Hand out Assignment #2 (10%) – Nov 28th

Nov 18

Assignment #2 due

Digestive system (text 141-142)

- Functions
- Structure
- Disorders
- Diagnostic Tests

Urinary system (text 144-146)

- Functions
- Structure
- Disorders
- Diagnostic Test

Nov 20

Quiz #2 (20%) (covers to end of Endocrine system)

Reproductive system (text 164-166)

- Functions
- Structure
- Disorders
- Diagnostic Tests