



CAMOSUN COLLEGE

School of Health and Human Services (HHS)

Department: Allied Health & Technologies

MRAD 256 Relational A & P for Technologists – Part B Winter 2020

COURSE OUTLINE

The course description is available on the web:
<http://camosun.ca/learn/calendar/current/web/mrad.html#mrad256>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

- (a) **Instructor** Brent Mekelburg
- (b) **Office hours** By appointment
- (c) **Location** CHW 317
- (d) **Phone** 250-370-4758 **Alternative:**
- (e) **E-mail** mekelburgb@camosun.ca
- (f) **Website** Camosun.ca

2. Course Description & Intended Learning Outcomes

In this advanced beginner course, students complete an in-depth examination of the relational anatomy and physiology of the gastrointestinal, urinary, reproductive, neurologic, endocrine, and hematopoietic systems. Students enhance their understanding of anatomic relationships and physiologic functions using various medical imaging studies and a variety of illustrative media.

Upon successful completion of this course a student will be able to:

- a) interpret anatomical structures and relationships of the gastrointestinal, urinary, reproductive, neurologic, endocrine, and hematopoietic systems using multi-media including medical images.
- b) discuss the physiological function of the gastrointestinal, urinary, reproductive, neurologic, endocrine and hematopoietic systems as they pertain to the practice of medical imaging.
- c) compare and contrast the anatomic and physiologic information obtained by various medical imaging modalities.

3. Required Materials

Patton, K. & Thibodeau, G. (2016). *Anatomy & Physiology* (10th ed.) Textbook & Lab Manual. Elsevier Health Sciences.

4. Course Content and Schedule

| Week | Dates | Module | Chapter |
|------|-------------------------|---|----------|
| 1 | January 6 | Introduction Neurologic Cells | 18 |
| 2 | Jan 13 | Nerve Signaling | 19 |
| 3 | Jan 20 | CNS | 20 |
| 4 | Jan 27 | PNS ANS | 21 22 |
| 5 | Feb 3 | Senses | 23/24 |
| 6 | Feb 10 | 273 Presentation #1 During Monday slot Endocrine | 25/26 |
| 7 | Feb 17 | No Classes/Reading Week | |
| 8 | Feb 24 | Midterm 1 UGI | 38 |
| 9 | Mar 2 | LGI Digestion | 39 40 |
| 10 | Mar 9 | Urinary | 42 |
| 11 | Mar 16 | Reproductive | 45 |
| 12 | Mar 23 | Reproductive | 46 |
| 13 | Mar 30 | 273 Presentation #2 During Monday slot | |
| 14 | Apr 6 Good Friday | Midterm 2 | |
| 15 | Apr 13 Easter Monday | FINAL EXAM PERIOD (No Final Exam) | |

5. Basis of Student Assessment (Weighting)

| | |
|----------------|-------------|
| Midterm Exam 1 | 35% |
| Midterm Exam 2 | 35% |
| Assignments | 30% |
| TOTAL | 100% |

6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Complete Anatomy App. By 3D4 Medical available for download on iOS for iPhone/iPad

Drake, R.L., Vogl, W., & Mitchell, A.W.M. (2015). *Gray's Anatomy for Students* (3rd ed.). Churchill Livingstone.

8. College Supports, Services and Policies

Immediate, Urgent, or Emergency Support



If you or someone you know requires immediate, urgent, or emergency support (e.g., illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts:

<http://camosun.ca/about/mental-health/emergency.html> or
<http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, centre for accessibility, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit Student Services at <http://camosun.ca/services/>

College Policies

Policies are available on the College website at <http://camosun.ca/about/policies/>

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies.

Education and academic policies include, but are not limited to, [Academic Progress](#), [Admission](#), [Course Withdrawals](#), [Student Appeals](#), Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, and Student Penalties and Fines.

Student Conduct Policy

There is a [Student Conduct Policy](#). It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College website.

A. GRADING SYSTEMS

<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf#page=2>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

| Percentage | Grade | Description | Grade Point Equivalency |
|------------|-------|--------------------------------------|-------------------------|
| 90-100 | A+ | | 9 |
| 85-89 | A | | 8 |
| 80-84 | A- | | 7 |
| 77-79 | B+ | | 6 |
| 73-76 | B | | 5 |
| 70-72 | B- | | 4 |
| 65-69 | C+ | | 3 |
| 60-64 | C | | 2 |
| 50-59 | D | | 1 |
| 0-49 | F | Minimum level has not been achieved. | 0 |

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes.

| Grade | Description |
|-------|---|
| COM | The student has met the goals, criteria, or competencies established for this course practicum or field placement. |
| DST | The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement. |
| NC | The student has not met the goals, criteria or competencies established for this course, practicum or field placement. |

B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://www.camosun.bc.ca/policies/E-1.5.pdf#page=4> for information on conversion to final grades, and for additional information on student record and transcript notations.

| Temporary Grade | Description |
|-----------------|--|
| I | <i>Incomplete</i> : A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family. |
| IP | <i>In progress</i> : A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course. |
| CW | <i>Compulsory Withdrawal</i> : A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement. |