

3. Required Materials

(a) Texts

- i. Romans, LE. **Computed Tomography for Technologists- A Comprehensive Text.** Wolters Kluwer Health/Lippincott Williams & Wilkins 2011.
- ii. Seeram, E. **Computed Tomography. Physical Principles, Clinical Applications and Quality Control(4th Ed.)** Saunders/Elsevier Inc. 2009.

(b)Other

Desire-to-Learn (D2L):

D2L – the Camosun College online learning portal contains the remainder of the learning materials for this course. Students are expected to familiarize themselves with the online learning environment and all the features it has to make this course experience enriching. Log on at <https://online.camosun.ca/> to access these materials.

4. Course Content and Schedule

(Can include: Class hours, Lab hours, Out of Class Requirements and/or Dates for quizzes, exams, lecture, labs, seminars, practicums, etc.)

Lecture Days/ Rm Number

MRT WT212C

Friday 09:30-12:20

Week	Dates	Lecture	Readings	Quiz
1	Jan 12	Introduction + Fundamentals + Scan Parameters	1&2 Romans 1 Seeram	
2	Jan 19	History of CT Imaging + Current Technology	1&4 Seeram	
3	Jan 26	Data Acquisition: Rad Production + Attenuation/Rem Beam	4 Seeram	
4	Feb 2	(test) + Axial + Helical	2 Romans 5 Seeram	1(20%)
5	Feb 9	SSCT/MSCT + Spatial Recon + Intro to Image Recon	3&8 Romans 5&11 Seeram	
6	Feb 16	READING WEEK No Classes		
7	Feb 23	Linear Recon + Analytic/Iterative Recon + Clinical Appl of Recon	3&8 Romans 5 Seeram	

8	Mar 2	Image Display + 3D Apps	4 Romans 8&13 Seeram	
9	Mar 9	(test) + Dose Descriptors+ Dose Optimization	10 Seeram	2(20%)
10	Mar 16	Clinical Dose Reduc+ Image Quality + Artifacts, Equipment failures	6 Romans 9&10 Seeram	
11	Mar 20	QC+ QC tests + QC applic	7 Romans 18 Seeram	
11	Mar 23	(test) + Special Procedures + special procedures 2	14,15,16,17 Seeram	3(20%)
12	No class			
13	Apr 4	Group Assignment Presentations	10:30-12:20 13:30-14:20	4(10%)
14	Apr13	Review		
15	Apr 20	Final Exams		5 (20%)

5. Basis of Student Assessment (Weighting)

Attendance/Participation	10%
Midterm Exam 1	20%
Midterm Exam 2	20%
Midterm Exam 3	20%
Term Paper	10%
Cumulative Final Exam	20%
TOTAL	100%

Attendance/Participation

It is expected that you show up on time and participate in both labs and classroom lectures. We learn from each other, and I highly encourage you to willingly contribute to our group learning environment. We highly value interaction, appreciative inquiry, and active engagement.

If you attend all of the lectures, you will get 5%. For every un-communicated or un-excused absence, you will lose a mark. If you communicate your absence and it is for a legitimate reason ahead of time, you will not lose a mark.

The participation mark is worth 5%. If you're wondering how this will be marked, here is a simple way to self-reflect and guide your level of participation: Ask yourself, when given the opportunity to answer questions in class, share my knowledge, insights or contribute positively in a relevant manner, I participated actively:

0-never

1-rarely, if ever (1/semester)

2-sometimes (1/month)

3-consistently (1/week)

4-always (1/class)

5-always, but also constructively in a manner that deepened the discussion and furthered the level of interaction of the class with the material in a beneficial manner.

Midterm Exams

There will be 3 midterm exams to assess your level of knowledge as it relates to Principles of CT scanning. The purpose of the midterm exams is to provide you with feedback about your level of knowledge **during** the term. The midterm exams are non-cumulative. Beyond a grade, I encourage you to use the exams as an assessment **for** learning, not simply **of** your learning. As such, I highly encourage you to reflect on your results by identifying areas of weakness and celebrating successful integration of knowledge. The midterm exams should provide confidence, decrease anxiety, and expose you to the type of questions you can expect on the final exam.

Final Exam

The final examination is cumulative and includes material from all modules covered in the course. This final examination will occur during the regularly scheduled final exam week. In emergency circumstances, a student may write a test or final examination before or after the scheduled time if the student would otherwise be unable to complete the program or course. Exceptions due to emergency circumstances, such as unavoidable employment commitments, health problems, or unavoidable family crises, require the approval of the instructor. Holidays or scheduled flights are not considered to be emergencies. The student may be required to provide verification of the emergency circumstance. Camosun Academic Policy retrievable from: <http://camosun.ca/learn/calendar/current/pdf/academic-policies.pdf>) Missed quizzes or examinations cannot be made-up except in the case of documented illness (doctor's note).

Term Paper

Details about the term paper will be introduced during the second half of the course. The final draft of the term paper will be worth a total of 10%.

6. Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

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

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Student Services or the College web site at <http://www.camosun.bc.ca>

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 web site in the Policy Section.

<http://www.camosun.bc.ca/policies/policies.html>

A. GRADING SYSTEMS <http://www.camosun.bc.ca/policies/policies.php>

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+	<i>Required to use this course as a prerequisite</i>	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> 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.

The Medical Radiography Technology program is committed to promoting competence, professionalism and integrity in our students and developing their core skills to succeed throughout their academic programs and in their careers. The purpose of Academic Honesty Guidelines is to provide clear expectations of appropriate academic conduct and to establish processes for discipline in appropriate circumstances. It is the student's responsibility to become familiar with the content and the consequences of academic dishonesty. Before you begin your assignments, review the Academic Policies on the Camosun College website: <http://camosun.ca/learn/becoming/policies.html>