

RADT102

Mammography Syllabus

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Updated 11/2025

RADT 102 AND 102L MAMMOGRAPHY SYLLABUS

TIMES AND LOCATIONS:

RADT102 lecture is Online

RADT102L lab Clinical rotation is TBD by student

INSTRUCTOR: BONNIE A. PATTERSON, BA, R.T.(R)(M)(CT), CRT

CONTACT INFORMATION: I check for messages via email during the week, and will return your email within 48 hours. The best way to communicate with me is by email: bpatterson@santarosa.edu.

COURSE STUDENT LEARNING OBJECTIVES:

1. DISCUSS RADIOGRAPHIC PRINCIPLES AND HOW THEY APPLY TO MAMMOGRAPHIC IMAGING.
2. LIST TECHNICAL FACTORS AND POSITIONING TECHNIQUES THAT PRODUCE QUALITY MAMMOGRAPHIC IMAGES WHILE KEEPING RADIATION EXPOSURE TO A MINIMUM.

GRADING: **RADT102:** Grading is based on a percentage of points accrued through assignments, quizzes, one midterm, and a final examination. **Quizzes will be frequent.**

If a student earns a score of **less than 75% on any test, quiz, or midterm**, the student will be counseled which will result in being placed on remediation. A remediation plan will be initiated that will include identification of areas of weakness, goals for improvement and how those goals will be evaluated. The instructor provides students with a verbal warning or written feedback as to their status. The instructor counsels students regarding criteria for successful completion of the course and makes recommendations for improvement. Recommendations may include, but are not limited to remediation with faculty assistance, utilization of peer study groups, tutors, self-study instruction, and seeking assistance from counselors and instructors. Remediation plans will include a schedule for completion of recommendations. The student is expected to comply with the recommendations listed and be able to document that those recommendations have been completed on schedule. Remediation is considered a pro-active mechanism that identifies an area of deficiency, and suggests behavior that will mitigate that behavior.

QUIZZES:

Quizzes are taken online through Canvas. It is expected that you will take this quiz on your own and not use the textbook or internet to help you. If you leave the Canvas site to look something up on the internet, that move is noted in Canvas. This is considered a form of academic dishonesty and your quiz grade will be an F. **Make-up quizzes or exams are not allowed. Late assignments are not accepted. NO EXCEPTIONS.**

Grading Scale: 95 - 100% = A
85 - 94% = B
75 - 84% = C
74% and below = Fail

ATTENDANCE POLICY:

All classes must be attended each week online. In accordance with the SRJC policies as stated in the course catalog under “Attendance,” “a student may be dropped from any class when that student’s absences exceed 10% of the total hours of class time.”
<https://catalog.santarosa.edu/catalog-2019-2020/attendance-requirements>

The parameters outlined in this section are in accordance with the SRJC attendance policy. The Sonoma County Junior College District policy on attendance can be found online at <https://catalog.santarosa.edu/book/export/html/291>. Students will be held to these established standards consistent with State and local requirements.

REQUIRED TEXT: Mammographic Imaging, A Practical Guide. Fourth edition. By: Valarie F. Andolina et al.

STATEMENT ON DIVERSITY:

In accordance with the vision, mission and values of SRJC this class will be conducted with the premise that the classroom and laboratory environment are inclusive, diverse and sustainable learning communities. This is achieved by creating a learning environment that promotes creativity, intellectualism and social learning while also providing physical, social and ethical development in the highly diverse community at SRJC. Honesty, integrity, and mutual respect will be expected of all students and Instructors.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

Access and Accommodations: It is the mission of the Santa Rosa Junior College to support inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or to accurate assessment of achievement—such as time-limited exams, inaccessible web content, or the use of non-captioned videos—please notify the instructor as soon as possible. Students are also welcome to contact the **Disability Resources Department** (DRD). DRD is a resource for students that provides authorization for academic accommodations, training and access to assistive technology, and collaborates on strategies for academic success.

EMERGENCY EVACUATION PLAN:

In the event of an emergency during class that requires evacuation of the building, please leave the class immediately, but calmly. Our class will meet at the front of the RACE building to make sure everyone got out of the building safely and to receive further instructions. (If the class is on a

second or higher floor, provide clear directions to the stairs). If you are a student with a disability who may need assistance in an evacuation, please see me during my office hours as soon as possible so we can discuss an evacuation plan.

STUDENT CONDUCT:

We will conduct ourselves in a manner which reflects our awareness of common standards of decency and the rights of others. All students are expected to know the **Student Conduct Policy** and adhere to it in this class. Students who violate the code may be suspended from 2 classes and may be referred to the Conduct Dean for discipline.

RESPECT:

The best way to learn is through active participation; therefore, we respect others when talking, by being on-time, listening actively, and being polite even when we disagree with another's viewpoint. Please turn off all electronic devices. If you use a laptop for note taking, please sit in the front row with the sound off. No food in class please.

ACADEMIC INTEGRITY:

All written work is to be original; plagiarism of any kind will result in a failing grade on that assignment. Students who plagiarize or cheat may be suspended – for one or two class meetings by the instructor – and referred to the Conduct Dean for discipline sanction, in cases of egregious violation. Please see **Policy 3.11 for Academic Integrity** .

COVID-19 PROTOCOLS AND PRECAUTIONS:

The health and safety of all is of highest priority. The nature of all skills training labs necessitates learning activities that are performed in close proximity and direct contact on a regular basis. In accordance with Sonoma County Public Health Services, students will comply with the following protocols when entering the Race building and while engaging in lab activities as well as comply with protocols specific to clinical training sites at all times.

Students who have potentially been exposed to the Coronavirus, (i.e., through a family member, friend etc.) must notify the program director, clinical coordinator/instructor and clinical instructor immediately. Students should quarantine for 10 days. During this time, the student can complete online didactic course work but cannot attend any in-person class, labs or clinical training. The student must be asymptomatic and provide documentation of a negative COVID test to the program director prior to returning to class, labs &/or clinicals.

LECTURE SCHEDULE AND ASSIGNMENTS SHEET

RADT 102

MAMMOGRAPHY

BONNIE A. PATTERSON, BA, CRT, R.T.(R)(M)(CT)

LESSON TOPIC/DUE DATE	ASSIGNMENTS
Week 1 – 1/19 • Course Overview and Discussion of Lecture and Lab Expectations • “History of Mammography”	• Read <u>all</u> handouts given online that describe the course rules and expectations. • Read Chapter 1 in textbook. • View Module 1 in Canvas. • Answer discussion question in Canvas. • Add a profile picture in Canvas.
Week 2 – 1/26 • “The Need for Screening”	• Read Chapter 2 in textbook. • View Module 7 in Canvas. • Answer discussion question in Canvas.
Week 3 – 2/2 • “Patient Considerations”	• Read Chapter 3 and 4 in textbook. • Review Module 7 in Canvas. • Answer discussion question in Canvas.
Week 4 – 2/9 • “Breast Anatomy & Physiology” • Quiz 1 (ASRT Modules 1 and 7)	• Read Chapter 5 from the textbook. • View Module 4 in Canvas. • Answer discussion question in Canvas.
Week 5 – 2/16 • “Mammographic Pathology”	• Read Chapter 6 from the textbook. • View Module 5 in Canvas. • Answer discussion question in Canvas.

Week 6 – 2/23 • “Mammographic Positioning” • Quiz 2 (ASRT Modules 4 & 5)”	• Read Chapter 7 in the textbook. • View Module 8 in Canvas. • Answer discussion question in Canvas.
Week 7 – 3/2 • “Special Imaging Applications” • Quiz 3 (ASRT Module 8)	• Read Chapter 8 (pages:300-328) in textbook. • Review Module 8 in Canvas. • Answer discussion question in Canvas.
Week 8 – 3/9 • Midterm . on all information given from the beginning, through the lecture on “Mammographic Positioning” and ASRT Modules 1,7,4,5 and 8.	• Midterm exam is cumulative and is based on the ASRT modules listed. • Answer discussion questions in Canvas.
Week 9 – 3/16 • “Creating the Digital Image”	• Read Chapter 12 of the textbook. • Review Module 2 in Canvas. • Answer discussion question in Canvas.
Week 10 – 3/16 - 3/22 <i>Spring Break</i>	• Some of you may wish to take the opportunity to do your 40 hour clinical rotation this week. • Have a great break!
Week 11 – 3/30 • “Mammographic Machines”	• Read Chapter 11 in the textbook • View Module 2 in Canvas. • Answer discussion question in Canvas.
Week 12 – 4/6 • “Practical Applications in Problem Solving” • Quiz 4 (ASRT Modules 2 ad 3)	• Read Chapter 10 in textbook. • Review Module 3 in Canvas. • Answer discussion question in Canvas.

Week 13 – 4/13 • “Digital Breast Tomosynthesis”	• Read Chapter 14 in textbook. • View Module 10 in Canvas. • Answer discussion question in Canvas.
Week 14 – 4/20 • “Thinking in Three Dimensions” • Quiz 5 (ASRT Module 10)	• Read Chapter 9 in the textbook. • Review Module 10 in Canvas for review. • Answer discussion question in Canvas.
Week 15 – 4/27 • “Quality Assurance in Mammography”	• Read Chapter 15 in the textbook. • Review Module 6 in Canvas. • Answer discussion question in Canvas.
Week 16 – 5/4 • “Mammography Quality Control”	• Read Chapter 16 in the textbook. • View Module 6 in Canvas. • Answer discussion question in Canvas.
Week 17 – 5/11 • “Diagnostic Procedures” • Minimally Invasive Breast Biopsy • Quiz 6 (ASRT Module 6)	• View Module 9 in Canvas. • Read Chapter 17 (pgs. 609-618) • Read Chapter 18 (pgs. 621-636) • Answer discussion question in Canvas.
Week 18 – 5/15 • Study for final exam	• Answer discussion question in Canvas. • Study Guide is all of the ASRT transcripts and discussion questions.
5/16 – 5/22, due by 5 p.m. 5/22/26 • Comprehensive Final Exam	• Study well!!!