

Radiographic Pathology

RADS - 2110 301

Course Student Learning Outcomes

- Define terms related to the study of disease including pathology, etiology, disease, pathogenesis, diagnosis, prognosis, procedure, test, manifestation, symptom, sign, syndrome, frequency, incidence, prevalence, morbidity rate and mortality rate.
- Distinguish between a structural disease and a functional disease and give examples of each.
- For structural diseases, describe lesion, congenital abnormality, hereditary disease, acquired injuries, inflammatory diseases, necrosis, sublethal degeneration, hyperplasia, and neoplasia.
- Describe causes of diseases including physical, chemical, microbial, endogenous, valvular disease, anoxia, hypoxia, ischemia, infarct, idiopathic, iatrogenic, and nosocomial.
- Define terms as they relate to injury including acute injury, hypoxia, anoxia, thrombus, embolus, chronic injury, and atrophy.
- Describe the sequence of event in inflammation.
- List the 4 cardinal symptoms of inflammation.
- Describe types of fluid including transudate, exudates, purulent exudates, suppurative inflammation, abscess and empyema.
- Describe regeneration, granulation tissue, primary union, secondary union as they relate to wound repair.
- Define fundamental tissues including epithelial, connective, muscle, nervous.
- Describe terms as they related to altered tissue growth including hyperplasia, hypertrophy, metaplasia, neoplasms, benign, malignant, invasion, metastasis, carcinoma, sarcoma, lymphoma, leukemia.
- Explain what it means when we say a disease is additive or subtractive.

- Describe what specific radiographic technique changes are needed for both additive and subtractive diseases.
- Module Identify what specific diseases are additive and subtractive.
- List type of fractures.
- Identify types of fractures on radiographs.
- Provide a description of each pathology covered in that section.
- Describe the etiology of each pathology covered in that section.
- List symptoms of each pathology covered in that section.
- Relate relevant statistics for each pathology covered in that section.
- Explain what tests and/or imaging procedures are used to diagnose each pathology covered in that section.
- Modules Describe how each pathology covered in that section is treated.
- State the prognosis for each pathology covered in that section.
- Identify each pathology covered in that section on medical images and/or radiographs.

Engagement Plan

Example language:

- I will respond to email within 24 hours. I will offer feedback on major assignments within one week. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Brief Description of Assignments/Exams

Required course assignments consists of 10 module quizzes, 5 discussion posts, 3 journal entries.

JOURNAL

Students will be required to keep a journal of the pathologies they see on the patients that they radiograph in their hospital. The journals must be posted by the dates required to receive points. A template of information that must be covered for each patient is included in the journal assignment section, and it must be used for submissions. A sample journal is also posted. Journals include:

- a. Patient history
- b. Imaging study done and/or prior imaging studies done
- c. Physical description and effect of pathology on the patient
- d. Technical adjustments considered for pathology
- e. Effect of pathology on patient care.
- f. Effect of pathology on the radiograph.

Journal Grading Criteria: Students must submit information on 2 patients each time a journal submission is required. Each posting on an individual patient is worth 10 points, for a total of 20 points possible each time a journal entry is required. There are 3 journal assignments due this semester.

DISCUSSION QUESTIONS

Students must also participate in discussion questions. During the semester, 5 discussion questions will be posted to which students must provide a thoughtful answer by the due date. Post must be 200 words minimum.

Discussions include:

The CDC and NCHS

Surgical Procedure Research

Obesity Issues

Health Issues Facing Men and Women

Genetic Disease

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Class Q & A: General Questions	Discussion	0
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
9/5/25	Discussion Topic 1 - The CDC and NCHS	Discussion	10
9/5/25	Module 1 - Pathology, Terminology, Additive & Subtractive Disease, Fractures Quiz	Quiz	50
9/12/25	Discussion Topic 2 - Surgical Procedure Research	Discussion	10
9/12/25	Module 2 - Skeletal System Quiz	Quiz	33
9/26/25	Discussion Topic 3 - Obesity Issues	Discussion	10
9/26/25	Module 3 - Respiratory System Quiz	Quiz	31
9/26/25	Radiographic Pathology Journal #1	Assignment	20
10/3/25	Discussion Topic 4 - Health Issues Facing Men and Women	Discussion	10
10/3/25	Module 4 - Digestive System Quiz	Quiz	33

Due Date	Assignment Name	Assignment Type	Points
10/10/25	Module 5 - Biliary System Quiz	Quiz	19
10/17/25	Module 6 - Urinary System Quiz	Quiz	28
10/17/25	Radiographic Pathology Journal #2	Assignment	20
10/31/25	Module 7 - The Nervous System Quiz	Quiz	27
11/14/25	Discussion Topic 5 - Genetic Disease	Discussion	10
11/14/25	Module 8 - Circulatory System Quiz	Quiz	29
11/28/25	Module 9 - Reproductive System Quiz	Quiz	16
11/28/25	Radiographic Pathology Journal #3	Assignment	20
12/5/25	Module 10 - Endocrine System Quiz	Quiz	25

Grading Scale

Module 1 50 points

Module 2 33 points

Module 3 31 points

Module 4 33 points

Module 5 19 points

Module 6 28 points

Module 7 27 points

Module 8 29 points

Module 9 16 points

Module 10 25 points

291 points

2. Journal of pathology

20 points each for a total of 3 postings 60 points

3. Discussion topics

10 points each for a total of 5 discussions 50 points

TOTAL POINTS POSSIBLE FOR THE COURSE 432

Each assignment has a specific due date as noted on the course schedule. No late assignments will be accepted.

Incomplete. Students must complete all requirements to remain in the program.

Extra Credit

No extra credit work.

Grading:

95-100 A 75-77 C

90-94 A- 71-74 C-

87-89 B+ 67-70 D+

83-86 B 64-66 D

80-82 B- Below 64 E

78-79 C+

Late Assignment Policy

Timely submission of assignments is essential for success in this course. The following penalties will apply to late submissions:

- 1 day late: 25% deduction
- 2 days late: 50% deduction
- 3 days late: 75% deduction
- More than 3 days late: Not accepted

Assignments must be submitted through the designated platform by the stated deadline. If you anticipate a delay due to extenuating circumstances, please contact the instructor before the due date to discuss possible accommodations. Exceptions may be granted at the instructor's discretion with appropriate documentation

[How to Navigate to Canvas](#)

Online Tutoring

Students at SLCC have access to online tutoring through Canvas. From your Canvas course click Online Tutoring in the course navigation and follow the steps to set up an appointment. If this is your first time using the Online Tutoring we recommend you click "Take a Tour" to familiarize yourself with the service.

Note that students only receive 480 minutes of tutoring time each semester. After that we encourage you to use the resources found through this link:

<https://www.slcc.edu/tutoring/index.aspx>

If you have any additional questions reach out to elarningsupport@slcc.edu.

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any

questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)