

LBCC Diagnostic Imaging Program

Radiographic Pathology

Spring 2022

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Office Hours By appointment; please email to set up a mutually convenient time
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REQUIRED TEXT (PROVIDED)

Radiographic Pathology for Technologists, 7e by Nina Kowalczyk Ph.D. ISBN #: 9780323569293.

COURSE DESCRIPTION

Content is designed to introduce concepts related to disease and etiological considerations, with emphasis on radiographic appearance of disease and impact on exposure factor selection.

COURSE OBJECTIVES

- Define basic terms related to pathology
- Describe the basic manifestations of pathological conditions and their relevance to Radiologic procedures
- Discuss the classifications of trauma.
- Describe imaging procedures used in diagnosing disease.
- List the causes of tissue disruption.
- Describe the healing process.
- Identify complications connected with the repair and replacement of tissue.
- Describe the various systemic classifications of disease in terms of etiology, types, common sites, complications, and prognosis.
- Describe the radiographic appearance of selected diseases.
- Identify imaging procedures and interventional techniques appropriate for diseases common to each body system.
- Identify disease caused by or contributed to by genetic factors.

LBCC Course Outcomes

- Describe and explain concepts related to disease and etiological consideration on radiographic images.
- Describe the basic manifestations of pathological conditions and their relevance to radiologic procedures.
- Describe the various systemic classifications of disease etiology, types, sites, complications and prognosis.

COURSE OUTLINE

Date	Module	Read	Review Lecture	HW	Assignment	Quiz
4/2	1: Introduction Module Completion Date: 4/10 @ 11:59 p.m.	Chapter 1: Introduction to Pathology & Cancer Staging Weblink	Introduction to Pathology	HW 1	Case Study/Oral Presentation: DUE DATE 5/29	Quiz 1 Due 4/10 @ 11:59 p.m.
4/9	2: Skeletal/Traumatic Disease Module Completion Due Date: 4/17@ 11:59 p.m.	Chapter 2: Skeletal Pathology & Chapter 12 Traumatic Disease Cervical Spine Trauma Weblink	Fracture Principles & Pediatric , Hip and Colles Fractures & Traumatic Cervical Spine Injuries	HW 2	Assignment 2	Quiz 2 Due 4/17 @ 11:59 p.m.
4/16	3: Respiratory Module Completion Due Date: 4/24 @ 11:59 p.m.	Chapter 3: Respiratory System Pathology	TB & Pleural Effusion	HW 3	Assignment 3	Quiz 3 Due 4/24 @ 11:59 p.m.
4/23	4: GI System Module Completion Due Date: 5/1 @ 11:59 p.m.	Chapter 5: Abdomen & GI Pathology Gallstones	GI tract disease	HW 4	Assignment 4	Quiz 4 Due 5/1 @ 11:59 p.m.
4/30	5: Urinary System Module Completion Due Date: 5/8 @ 11:59	Chapter 7: Urinary System Pathology	Urinary System	HW 5	Assignment 5	Quiz 5 Due 5/8 @ 11:59 p.m

5/7	6: Reproductive System Module Completion Due Date: 5/15 @ 11:59 p.m.	Chapter 10: Reproductive System Pathology & TURP & HSG Information	Reproductive System	HW 6	Assignment 6	Quiz 6 Due 5/15 @ 11:59 p.m
5/14	7: Cardiovascular System Module Completion Due Date: 5/22@ 11:59 p.m.	Chapter 4: Cardiovascular System Pathology & Web Links	COPD/ Cardiomegaly	HW 7	Assignment 7	Quiz 7 Due 5/22 11:59 p.m
5/21	8: Hematopoietic/ Endocrine System Module Completion Due Date: 5/29 @ 11:59 p.m.	Chapter 9: Hematopoietic System Pathology Chapter 11: Endocrine System Pathology	Hematopoietic System, Endocrine System, spiral & avulsion fracture.	Hematopoietic & Endocrine	Assignment 8	Quiz 8 Due 5/29 @ 11:59 p.m
5/28	9: Finals Week					FINAL EXAM Due SUN 6/5@ 11:59 p.m.

REQUIREMENTS: All assignments, presentations and quizzes (except for the final exam) are due and must be completed by SUNDAYS AT 11:59 P.M. NO LATE WORK WILL BE ACCEPTED OR GRADED.

MODULES

This course has one module per week inside Moodle. Each module is made available on **Saturdays at 12:00 pm**. Module 1 will unlock on **Saturday, April 2nd**. Students desiring to get a headstart on the next week's content may consult the syllabus for the required reading assignment and get started on that.

HOMEWORK (0 points each)

There will be weekly UNGRADED homework assignments for students to use as a study tool. The homework assignments allow the student to determine how well they understand the material and are provided as an additional study resource. Homework will be made available online within the Moodle class Saturdays at 12:00 pm the week it is assigned and must be completed by the following Sunday night at 11:59 pm. Homework may be completed and submitted multiple times. The homework assignments are provided as practice. They allow almost instantaneous feedback, so students may see if there are specific areas that need additional study/review. Students will have access to online homework questions for every topic covered in class. The material covered in the homework can come from the textbooks, lectures, homework and prepared activities.

The homework assignments may be completed using whatever resources are available.

ASSIGNMENTS (8 ASSIGNMENTS @10-20 POINTS EACH = ~100 POINTS)

There will be GRADED module assignments. These are OPEN NOTE, OPEN BOOK, OPEN PEER, but they can only be taken **once**. Assignments are due every **Sunday at 11:59 p.m.** No late work will be accepted and a score of zero will be issued.

ORAL PRESENTATION (54 POINTS)

Students must research and prepare a presentation on a radiographic pathology of the student's choice that can be presented orally to their clinical facility mentors. This assignment is **MANDATORY** to complete the course. If a student chooses to not give a presentation, he/she will receive a failing grade for the course and will be dismissed from the program. The presentation should focus on a specific pathology or pathological condition that uses 2 different imaging modalities for diagnosis. The presentation will be graded by the clinical mentors. Evaluations of the presentation should be scanned and emailed to claytoj@linnbenton.edu no later than **Sunday, May 27 at 11:59 p.m.** No late presentation will be accepted and a score of zero will be issued. The Oral Presentation should be 10-15 minutes in length and is worth 54 points. This assignment is **MANDATORY** to complete the course. See the [Oral Presentation Instructions](#) & [Rubric](#) for more information.

QUIZZES (8 QUIZZES x 15-20 POINTS EACH = ~140 POINTS)

One quiz will be assigned each week. The quiz will be GRADED. The quizzes will generally cover the material from lectures, readings, homework, and case studies. The quizzes will consist of true/false, multiple choice, case study radiographs, short answer and essay type questions.

- Quizzes are NOT open book
- Quizzes are expected to be completed without reference material.
- Quizzes are timed.

FINAL EXAM (100 POINTS)

Students are expected to complete the final exam, asynchronously, with integrity. The final exam will be **DUE BY SUN 6/5 @ 11:59 p.m.** The final exam will be 50 questions and worth 100 points. The final exam will be comprehensive and will consist of terminology, case studies, and pathology identification. The student is required to identify the appropriate pathology based on images, clinical history, and symptoms.

GRADING SCALE

This is a four (4) credit, letter grade course. When these points are combined, the final grading scale is:

- A = 91.5 – 100%
- B = 82.5 – 91.4%
- C = 74.5 - 82.4%
- FAIL ≤ 74.4%

SYLLABUS CHANGE POLICY

This syllabus is subject to change as the instructor evaluates the progress of students and their understanding of concepts.

COURSE FAILURE POLICY

Diagnostic Imaging students must complete each course, including this one, within the Diagnostic Imaging program with a grade of at least 75%. A letter grade of F will be applied to the course if a student scores a 74.4% or below. The Diagnostic Imaging program does not utilize the letter grade "D". Students who can not pass coursework with the minimum standard grade will fail academically, which will then make the student ineligible to proceed in the program. As a result of academic failure, the student will be terminated from the program. Students who fail can only enter the program again through reapplication.

LBCC COMPREHENSIVE STATEMENT OF NONDISCRIMINATION

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our [Board Policies and Administrative Rules](#). Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425.

STATEMENT OF INCLUSION

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse. (Related to Board Policy #1015)

BASIC NEEDS STATEMENT

Any student who has difficulty affording groceries or food, or who lacks a safe and stable place to live, is urged to contact a Student Resource Navigator in the Single Stop Office

To reach us and to get connected to resources:

- [Email us at resources@linnbenton.edu](mailto:resources@linnbenton.edu). [The Roadrunner Resource Center](#) is here to help remove barriers that might prevent you from staying in school and reaching your dreams.
- Fill out the [Single Stop screener here](#).
- Call 541-917-4877

DISABILITY SERVICES POLICY

You should meet with your instructor during the first week of class if:

- You have a documented disability and need accommodations.
- Your instructor needs to know medical information about you.
- You need special arrangements in the event of an emergency.

If you have documented your disability, remember that you must make your request for accommodations through the Center for Accessibility Resources (CFAR) [Online Services webpage](#) **every term** in order to receive

accommodations. If you believe you may need accommodations but are not yet registered with CFAR, please visit the [CFAR Website](#) for steps on how to apply for services or call 541-917-4789.