



**Course Syllabus
SEMESTER
School of Nursing and Health Professions**

<i>What is it? Here is the Answer!</i>	
<i>Course Name:</i>	Radiologic Technology II
<i>Course & Section Number:</i>	RAD 113-XXX
<i>Meeting Day(s) & Time(s):</i>	
<i>Credits:</i>	3
<i>Contact Hours:</i>	2 lecture
<i>Instructor's Name:*</i>	
<i>Student Hours (Formerly Office Hours) & Location:</i>	
<i>OCC Email:**</i>	
<i>Additional Contact Information:</i>	

**Please only use your student OCC email to contact me.

Catalog Description:

RAD 113 - Radiologic Technology III

Studies factors that govern the image production and image quality analysis process. Included are the importance of optimal imaging standards and problem-solving techniques. Digital imaging components, principles and operation are discussed. Film imaging with related accessories is introduced. In lab, radiographic imaging procedures and the resultant image evaluation criteria of the pelvis and digestive system are emphasized. Simulated lab experiences are planned to provide the student opportunities to apply principles and skills learned.

Co-requisite: RAD 102

Prerequisite: RAD 111

Credits: 3(Lec: 2 Lab: 3)

School: Schl of Nrs & Hlth Professions

Department: Radiography Dept

Course Materials:

1. BONTRAGER'S TEXTBOOK OF RADIOGRAPHIC POSITIONING AND RELATED ANATOMY, 10TH EDITION

LAMPIGNANO, JOHN; KENDRICK, LESLIE E.

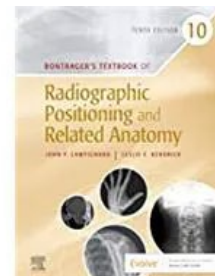
ISBN13: 9780323653671

EDITION: 10TH

FORMAT: HARDCOVER

PUBLISHER: Elsevier

COPYRIGHT: 11/20/2020



2. RADIOGRAPHIC IMAGING AND EXPOSURE, 6TH EDITION

TERRI L. FAUBER, EDD, RT(R)(M)

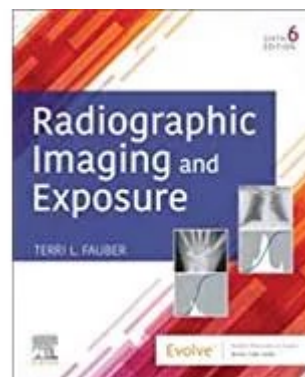
ISBN13: 9780323661393

EDITION: 6TH

FORMAT: PAPERBACK

PUBLISHER: ELSEVIER

COPYRIGHT: 10/15/2020



3. Bontrager, Kenneth L, & Lampignano, John P., Workbook for Bontrager's Textbook of Radiographic Positioning and Related Anatomy, 2021, Volume 1, Tenth Edition. ISBN-13: 978-0323694230 /ISBN-10: 0323694233
4. Bontrager, Kenneth L, & Lampignano, John P., Bontrager's Handbook of Radiographic Positioning and Techniques, 2021, Tenth Edition ISBN-13: 978-0323694223 ISBN-10: 0323694225
6. Owens Community College, RAD 113 Radiography Laboratory Manual, Fall 2024
7. Windows Computer with Respondus Lockdown Browser Installed and Web-Cam Access for on-line testing
7. Davi-Allen Chabner, The Language of Medicine, 12th Edition. Elsevier, 2020. (Optional)

SEMESTER

OER and Owens Community College Library Resources (Open Educational Resources are free online materials for instructor and student use. Some OER material may be available in print in the Owens Community College Library.)

What Will I Learn in This Course:

Course Objectives:

The course

1. Present information regarding radiographic quality of digital imaging and its application in clinical practice
2. Introduce students to the radiographic positioning, anatomy identification and image analysis of the hips and pelvis and gastrointestinal system.

Student Learning Outcomes:

Student will...

The student will:

1. be able to identify the basic steps of digital imaging acquisition, processing and display.
2. be able to identify, categorize, explain and discuss the function, construction and optimal use of radiographic accessories.
3. be able to apply mathematical concepts to medical imaging situations as evidenced by correctly performing technical factor conversion problems.
- 4 identify anatomical structures of the hips and pelvis and gastrointestinal system on radiographic images.
5. successfully perform simulations of radiographic procedures of the hips and pelvis and gastrointestinal system in the laboratory setting.

Outcome The student will:	Where assessed (List assignments, exams, discussions, items to be graded)
1. be able to identify the basic steps of digital imaging acquisition, processing and display.	Worksheets 1, 2, 3, 4, 5, 6, 7, 8, 9 Test 1, Test 2, Final Exam. Quiz 1 and Quiz 2 and Quiz 3 and Quiz 4
2. be able to identify, categorize, explain and discuss the function, construction and optimal use of radiographic accessories.	Worksheets 1, 2, 3, 4, 5, 6, 7, 8, 9 Test 1, Test 2, Final Exam. Quiz 1 and Quiz 2 and Quiz 3 and Quiz 4
3. be able to apply mathematical concepts to medical imaging situations as evidenced by correctly performing technical factor conversion problems.	Worksheets 1, 2, 3, 4, 5, 6, 7, 8, 9 Test 1, Test 2, Final Exam. Quiz 1 and Quiz 2 and Quiz 3 and Quiz 4
4 identify anatomical structures of the hips and pelvis and gastrointestinal system on radiographic images.	Bontrager Ch 7 , Ch 12, and Ch 12 Image ID Ch 7 , Ch 12, and Ch 13
5. successfully perform simulations of radiographic procedures of the hips and	Practicals Ch 7, Ch 12, and Ch 13.

pelvis and gastrointestinal system in the laboratory setting.	
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Program Outcomes:

The following program outcomes are assessed in this course

Goal 1: Students will be clinically competent.

Goal 2: Students will utilize critical thinking skills.

Goal 3: Students will be able to communicate effectively.

Institutional General Education Competencies:

As a student at Owens Community College, you will take General Education courses as part of your degree program. While specific to the General Education courses, will be reinforced in many of your degree program major courses and may be measured in your capstone course(s) and others as identified.

1. Communicate effectively.
2. Act with professional responsibility.
3. Demonstrate sensitivity to other's beliefs and values.
4. Think analytically, critically, and creatively.

Institution General Education Competency	Where Assessed (List assignments, exams, discussions; items must be graded.)
Communicate effectively.	RAD 113 practicals, pass/fail
Act with professional responsibility.	RAD 113 practicals, pass/fail
Demonstrate sensitivity to others' beliefs and values.	RAD 113 practicals, pass/fail
Think analytically, critically, and creatively.	RAD 113 practicals, pass/fail

Technology, Lab, and File Requirements:

The Blackboard Learning System is an online course environment available for all Owens courses, even those that are not web-based. Blackboard offers students a resource where they can communicate and collaborate with instructors and fellow students outside of the physical classroom. The Radiologic Technologies Department integrates Blackboard into each course, and it is essential for all students to become familiar with the system. Check the STUDENT HELP AND RESOURCES tab on the blackboard shell for information on technical support and Software/Hardware requirements for utilizing Blackboard to complete assignments and communicate with peers and faculty.

Calculators: Please be sure that you have a calculator available as necessary for lecture class and testing sessions. Cell phones/iPads or laptops may be used for testing but may not be used as calculators. When testing, the Respondus calculator will be activated.

Specific download and installation Instructions are posted in Blackboard

Academic Support

Disability Services Resource Center: If you have a disability or acquire one, you may be entitled to receive reasonable accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to register for accommodations, please contact the Disability Resource Center at 567-661-7007, email disability@owens.edu, visit <https://www.owens.edu/disability/>, or stop by College Hall 124.

Tutoring Services: Owens Community College offers academic tutoring and assistance in a variety of subjects including: accounting, computing, economics, mathematics, science, and writing. For more information go to: <https://www.owens.edu/successcenters/>.

Counseling Services: Counseling Services provides assistance to students experiencing personal, educational, interpersonal/relationship, family, social, or psychological difficulties. If you feel you may benefit from this service, please contact them at counselingservices@owens.edu. More information is at <https://www.owens.edu/counseling/>.

Campus and Community Connections: The Center for Campus and Community Connections (College Hall 123) is a walk-in office created to provide retention support through resource stability initiatives and community connections. Go here for more information: <https://www.owens.edu/connection/> or contact connections@owens.edu

Owens Library: The Owens Library offers two locations (Toledo and Findlay) as well as online resources. For more information visit <https://www.owens.edu/library/>.

Students can find more information on campus resources, student support, student life, and security at this [link](#).

General Information

Student Code of Conduct: All students are expected to follow Owens Community College's [Student Code of Conduct](#), which includes academic honesty, encompassing plagiarism. See the [Board Policy](#) for more information.

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct: All students, faculty, and staff are expected to follow Owens Community College's [Anti-Discrimination and Harassment Policy](#) and the College's [Title IX Policy](#)/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination, intimidation, or hostile/offensive working or learning environments.

Religious Accommodations: A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a written email notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy*. The request

for an alternative accommodation will be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu
The policy may be found on the Owens website: [3358:11-2-63 Accommodation](#) for a Student Absence for the Observance of Religious Beliefs and Practices Policy

Document Collection: Throughout the semester, your instructors may ask for a variety of assignments including tests and/or quizzes for student learning of institutional general education competencies or program assessment. Please save all your class materials until the end of the semester.

Classroom Admittance: OCC classes shall only be attended by the officially registered OCC students or perspective students, instructor of record, guest lecturer, or substitute. Visitors are not permitted to be in the classroom and should not be invited to attend or participate in the class. See [FERPA](#) regulations for more information. For any changes, students must talk with their instructor first and then their advisor.

Face-to-Face Classes: students must attend this class in person only. Instructors will not allow a different form of instructional delivery.

Use of AI Tools: This course permits you to use artificial intelligence (AI) tools, such as chatbots, text generators, paraphraser, summarizers, or solvers, to get guidance on assignments, as long as you do so in an ethical and responsible manner. Essentially, you can think of these tools as ways to help you learn but not to entirely create work for assignments like discussion board posts, essays, presentation slides, and so on. AI is more like your tutor or TA, not a replacement for your independent thinking.

This means that you must:

- Not use AI tools to replace your own thinking or analysis or to avoid engaging with the course content.
- Cite or explain any AI tools you use. Provide the name of the AI tool, the date of access, the URL of the interface, and the specific prompt or query you used to generate the output.
- Be transparent and honest about how you used the AI tool and how it contributed to your assignment. Explain what you learned from the AI tool, how you verified its accuracy and reliability, how you integrated its output with your own work, and how you acknowledged its limitations and biases.

You are accountable for any mistakes or errors made by the AI tool. Always check and edit the output before submitting your work. If you discover any inaccuracies or inconsistencies in the output after submission, notify the instructor immediately and correct them as soon as possible.

Using AI tools in an unethical or irresponsible manner, such as copying or paraphrasing the output without citation or transparency, using the output as your own work without

verification or integration, or using the output to misrepresent your knowledge or skills, is considered a form of academic dishonesty and will result in a zero grade for the assignment and possible disciplinary action. If you have any questions about what constitutes ethical and responsible use of AI tools, please consult with the instructor **before** submitting your work.

NOTE: Some instructors will also list specific acceptable and unacceptable uses or include a statement like “All written assignments, projects, and exams must be completed independently.”

If you have any questions about what constitutes ethical and responsible use of AI tools, please consult with the instructor before submitting your work.

What Are Student & Instructor Responsibilities?

Instructor's Responsibilities:

Attendance/Class Time:

We will be respectful of your time and begin and end class on time. If class needs to be canceled for any reason, I will notify students as soon as possible by email announcement.

Grading Assignments:

Assignments that are submitted by the due date will be graded and returned/recorded in the Blackboard grade center within 7 days. Assignments that are submitted after the due date *may* take up to 10 days before I am able to grade it.

Answering Emails:

I will do my best to respond to your emails within 24 hours on weekdays and within 48 hours on weekends. Please use your Owens email account to contact me.

Announcements:

I will post any updates and/or reminders on the Blackboard Announcement page, as well as send it out to your Owens email account.

Office Hours:

These posted times (posted outside my office door, HT 421) are designated for me to be available to meet with and assist you, outside of normal class time, with any concerns/questions you may have regarding this course or program.

Facilitating Successful Completion of the Course:

I welcome questions, concerns, and experiences relevant to the topic, course and/or professional field. We learn from each other. If appropriate, I encourage you to share and ask during class. If not, please see me during student hours or email me. If there is a need, I will reach out to the student or class to address that need. I will make referrals

to other campus resources as needed. I am aware that life is happening, and this class is not the only thing you have going on.

Student Responsibilities:

Attendance/Participation:

Class discussions, activities and participation are an integral component of learning and understanding the course material and therefore, attendance is part of your grade in this class. If you are going to be absent, please notify the appropriate instructor prior to missing the class, if possible. Please look at the assignment calendar to see what was missed (topic, assignments, etc.), review the power points and contact the instructor if you have any questions.

Class will begin on time, so please plan accordingly. We understand things happen. It will only become an issue if your lateness becomes habitual: 5 points could be deducted from your final grade.

Make Up Tests

A make-up test consisting of fill in the blank questions and answers may be administered if a student misses a regularly scheduled examination. To receive maximum credit, the student should notify the instructor at least **30 minutes** prior to the scheduled testing time. If no notification is received, the student will receive a five **(5) percent** reduction from the score of the make-up examination.

Inclement Weather

In the case that the campus closes due to inclement weather, online lecture may take place at the discretion of the instructor. Communication from instructor will be sent out the day of.

Assignment submission:

Students are to be familiar with the assignment calendar and how to submit assignments (on the assignment instructions on the blackboard shell). If you are unable to submit an assignment by the end of the day on the due date (on assignment calendar), you are encouraged to still submit it. Although full credit *may not* be given if the assignment is late, you will be able to earn *at least* partial credit.

Check Email/Blackboard Shell:

Any announcements and updates will be sent to your email and/or posted on the Blackboard shell. Students are encouraged to check their email *at least* once daily and to log into their Blackboard shell several times a week to remind themselves of upcoming assignments, etc.

Tests/Quizzes:

All dates for assignments and tests are listed on the assignment calendar. All tests and quizzes will be administered on Blackboard and taken during the designated class time. Please bring your laptop/tablet with you on these days with Respondus software loaded. If you do not have a device, please let us know ahead of time and we will make other arrangements for you.

Phones:

We have found phones to be a distraction in class. Please silence your phone and keep it out of sight. However, there may be circumstances you may need your phone available for personal reasons. If this is necessary, please be discreet and leave the classroom.

Contacting the Instructor:

Email is the best way to reach me, outside of student hours. Please include your course number and section in the subject line.

Asking for Help/Clarification:

I expect questions and that is ok. **Unless I am told otherwise, we will assume that every student understands everything said in class, on the Blackboard shell and through emails.** Sometimes the best thing you can say is “I am not following this concept” or “I have no idea where to begin with this assignment.” All classes, and courses in this program, will build on and further develop the information we discuss. Please reach out as soon as you have questions or need clarification.

Instructor Discrepancies:

If at any time throughout the semester you have a problem with the course and/or instructor, contact the instructor. If the issue cannot be resolved after discussion with the instructor, see the Department Chair: Christine Smith, HEC , 567-661-7376 or christine_smith@owens.edu

Respectful Class Communication:

Our classrooms are a safe space. Faculty and students show respect for each other in class and all communication. There is also a short power point on the Blackboard info tab regarding polite, professional email communication.

Social Media Use:

The use of YouTube, Facebook, Instagram, Twitter, Discord, SMARTkapp or any other internet share site to distribute any course, campus lab, or clinical photos, audio recordings, or video recordings is prohibited unless written permission is received from all people involved. Using these sites to display comments about faculty, peers, staff, and/or patients is in conflict with our Inclusion Statement. Such comments may result in disciplinary action. Written permission involves completion of “OWENS COMMUNITY COLLEGE CONSENT FORM”.

How Will Your Grade Be Determined and What Are the Major Assignments for the Semester?

Weighted Grade Scheme:

Breakdown of Course Grades

The lecture section will be worth 50% of the course grade; divided as follows:

Test One	12%
Test Two	12%
Lecture Final	14%
Quizzes	7%
Worksheets	5%
Total	50%

Grading Procedure:

Grading Procedure: The grading scale for the course is

93 – 100%	A
85 – 92%	B
76 – 84%	C
60 – 75%	D
59% or below	F

The course is divided into two sections:

1. Lecture 50%
2. Laboratory 50%

Students must earn a passing grade of 76% in both the lecture and laboratory components of the course. If either of the percentages earned is less than 76%, the student will earn a grade of “D or F” for the course and be removed from the program.

Lecture Class Assignments:

All assignments and testing will be submitted online in the RAD113-002 course shell.

Worksheets:

A series of worksheets are provided in the lecture manual and posted on Blackboard. When completed they will serve as valuable study guides. Students will need to submit answers on blackboard by the beginning of the class day and time that a worksheet is due. Students are allowed multiple attempts with the highest grade being recorded. All attempts must be completed by the day and time of the final exam. The first attempt on a worksheet must be completed by the due date stated on the syllabus. First attempts Worksheet numbers and due dates are listed in the syllabus along with the appropriate reading assignments. No worksheet grade will be accepted after the lecture final exam.

Lecture Tests:

All digital testing will utilize Respondus Lockdown Browser. All off-campus testing will utilize Respondus Lockdown Browser with Web Cam. If students are not logged into Respondus during assessments, no credit will be issued for the assessment. A repeat exam consisting of fill-in-the-blank questions on campus will be administered. **Two (2) tests will be given. Each will be worth 12% of the grade.**

Lecture Quizzes:

The student is advised to attend class regularly and keep reading assignments and studies up to date to fully benefit from these quizzes. Make-up quizzes will not be administered. All quizzes will be averaged for **8% of the course grade**. The lowest note card quiz grades will be dropped over the full 8-week course.

Final Exams:

A comprehensive final exam will be given, which will count for 14% of the course grade
This test will be over all information presented in all 8 weeks of lecture.

Last Updated DATE: This is just to give you a guide as to what we are going to cover in this course and when.

113 Lecture Schedule SEMESTER

Class days	Topic	Reading Assignment
1.	Ch. 1-Radiation and Its Discovery	Fauber, Ch. 1 Bushong Ch. 1
	Ch. 2-The X-ray Beam <i>Quiz #1</i> <i>Worksheet #1</i>	Fauber, Ch. 2 Bushong Ch. 4, 7
2.	Ch. 3-Image Formation and Radiographic Quality <i>Quiz #2</i> <i>Worksheet #2</i>	Fauber, Ch.3 Bushong Ch. 10, 15
	Ch. 4-Digital Image Characteristics, Receptors, and Image Acquisition	Fauber, Ch.4 Bushong Ch. 12, 13
3.	<i>Review</i>	
	<i>Lecture Exam #1</i>	
4.	Ch. 5- Digital Image Processing, Display and Data Management	Fauber, Ch. 5

	<i>Worksheet #3</i>	Bushong Ch. 11, 17, 23
	Ch. 6 Technique Factors Exposure <i>Quiz #3</i>	Fauber, Ch. 6 Bushong Ch. 8
5.	Ch. 7 Scatter Control <i>Quiz #4</i> <i>Worksheet #4</i>	Fauber, Ch. 7 Bushong Ch. 8, 10, 22
	<i>Lecture Exam #2</i>	
6.	Ch. 8 Exposure Technique Selection <i>Worksheet #5</i>	Fauber, Ch. 8
7.	<i>Review Quiz # 4 over Ch 1-4.</i> <i>Worksheet #6</i>	Fauber, Ch. 10 Ch. 5 Bushong Ch. 25
	<i>Review Quiz # 4 over Ch 5-8</i>	
8.	<i>Comprehensive Final Exam</i>	

LABORATORY SECTION

<i>What is it?</i>	<i>Here is the Answer!</i>
Course Name:	Lab Radiologic Technology II
Course & Section Number:	RAD 113- BXX
Meeting Day & Time Lab Lecture:	
Meeting Day(s) & Time Lab(s):	
Credits:	Total 3
Contact Hours:	3 lab
Instructor's Name, Student Hours (Formerly Office Hours) & Location, OCC Phone, OCC Email Additional Contact Information:	
Lab Support Staff:	

**Please only use your student OCC email to contact instructors.

What Are Student & Instructor Responsibilities?

Instructor Responsibilities:

We will be respectful of your time and begin and end lab on time. If lab needs to be canceled for any reason, We will notify students as soon as possible by email announcement.

Answering Emails:

We will do our best to respond to your emails within 24 hours on weekdays and within 48 hours on weekends. Please use your Owens email account to contact instructors.

Announcements:

We will post any updates and/or reminders on the Blackboard Announcement page, as well as send it out to your Owens email account.

Office Hours:

These posted times (posted outside instructor office doors) are designated for us to be available to meet with and assist you, outside of normal class time, with any concerns/questions you may have regarding this course or program.

Facilitating Successful Completion of the Course:

We welcome questions, concerns, and experiences relevant to the topic, course and/or professional field. We learn from each other. If appropriate, We encourage you to share and ask during lab. If not, please see us during student hours or email us. If there is a need, We will reach out to the student or class to address that need. We will make referrals to other campus

resources as needed. We are aware that life is happening, and this class is not the only thing you have going on.

Student Responsibilities:

Lab expectations

The student must assume responsibility for preparing for labs. It is expected that the student will read and study the assigned material covering the unit in the text before the instructional lab session.

Students will be engaged in the lab session, focusing on lab activities ONLY. Students are expected to participate in lab lecture discussions and be prepared to answer questions at any time during the session.

Students working in the energized laboratory must wear their radiation badges at all times.

Open Lab/Common Open Lab Attendance/Participation:

Open lab sessions are scheduled to allow students more supervised practice and to provide additional developmental experiences required before taking or repeating a practical exam. Schedules are available online. Students are required to attend open lab sessions to practice imaging procedures and complete assignments. The open lab supervisors are present to assist students and do not give primary instruction. Students are expected to log all open lab sessions on Trajecsyst.

Common open lab sessions are provided for students who want additional practice or are required to attend additional practice after failing any repeat practical attempt. Sign ups can be made on the Radiography, MRI, and CT Programs Blackboard course. Students are expected to log all common open lab sessions on Trajecsyst.

At least two students attend an open lab or common open lab session together, acting as patients for each other during the practice time. Students are expected to act as patients and practice positioning during this time. Observation is not permitted.

Regular attendance at open lab sessions is crucial for your success in laboratory courses.

Students who arrive more than 10 minutes late the student will be required to complete an additional open lab.

Missing a scheduled open lab session without prior notification will be addressed as follows:

First Offense: Written warning via email

Second Offense: An informal report. This requires a meeting to discuss attendance and expectations moving forward. Further absences may result in additional actions as outlined in the course and program policies.

Please ensure you communicate with your instructor if you are unable to attend a session due to unforeseen circumstances.

When attending open labs or common open labs, students may not bring small children who must be supervised. For the protection of the children, please make appropriate arrangements for their care.

The radiography labs provide students an opportunity to learn and apply the professional behaviors necessary in the clinical sites. Therefore, students are expected to conduct themselves in the same manner in the laboratory setting that would be appropriate in the clinical setting. Students should be prompt, polite, and courteous to everyone in the lab.

Professional appearance, attitude and behavior is expected and students not complying may be asked to leave and return at a later date.

Students are expected to leave the laboratory in an organized fashion, putting away sponges, positioning tools etc. in the cabinets.

Please refer to the Procedure Manual for the complete laboratory attendance policy.

Inclement weather policy

If the campus closes, laboratory and lab lecture classes will be rescheduled or recorded. If the college does not close for the day but is scheduled to open at 10:00 am, 11:00 am or 12:00 noon, laboratory classes will begin at the time of campus reopening.

Breakdown of Course Grades

The laboratory section will be worth 50% of the course grade, divided as follows:

Four Bontrager Laboratory Exams @ 5.5% each	22%
Final Comprehensive Laboratory Exam	8%
Three Radiographic Identification Exams @ 2% each	6%
Final Comprehensive Image ID	6%
Math/Technique Manipulation Exam	3%
Medical Terminology Exam	3%
Three Laboratory Quizzes	2%
3 Practical examinations	<u>P/E</u>
	50%

Class Assignments

Testing

All Bontrager Exams and Chapter Quizzes will be taken on-line via the BlackBoard RAD 113-002 course either in class or at home.

Instructors will open exams, tests, and quizzes to be taken on-line at a scheduled time. If a repeat is needed, you may be required to have a password to access, provided to you from your instructor

Students must notify the instructor at least 30 minutes prior to the scheduled class time of their absence. If no notification is given, 5 points will be deducted from the final test score. In addition, a due date for completion of the make-up exam will be provided. No makeup examination will be administered prior to the scheduled examination date

Lab Exams

A student may not attempt to repeat a laboratory exam until the previous unit is passed. However, the student must continue to take the first exam of the subsequent chapters at the scheduled testing time. Laboratory tests will be comprehensive in nature, including several questions from chapters previously covered in this course.

All chapter lab exams must be successfully completed by the deadline date of DATE at TIME. **Failure to complete by DATE will result in a zero for comprehensive final exam.**

If students miss a regularly scheduled exam, a make-up exam possibly consisting of fill-in-the-blank questions will be administered.

Comprehensive Laboratory Exam

Worth 8% of the course grade, the comprehensive lab exam will be given one time with no repeat attempts offered. Students will receive the score earned. Students must pass all lab exams to attempt the Comprehensive Lab Exam.

Radiographic Images:

Printed copies of medical images pertaining to each chapter will be included in the RAD 113 lab manual. Students should attempt to identify and label the anatomical structures listed and then attend an image review session where a faculty member will be present to assist in identifying anatomical structures. If needed, the images may be collected by the instructor and returned prior to the day of the Image I.D. examination.

Radiographic Image I.D. Exams

Three Image ID exams will be given and will be worth a total of 6% of the course grade. Image ID exams will be comprehensive and include several questions from chapters previously covered in this course. Students must earn a grade of 76% or higher on Image ID exams.

Students not earning 76% or higher on an Image ID exam must repeat the exam as soon as possible. The score earned on a repeated Image ID exam may adversely affect the course grade as each repeat attempt will result in a 5% reduction of the recorded exam grade. See the Procedure Manual for more information, including grading for repeated Image ID exams.

Students may not attempt to repeat an Image ID exam until the previous unit is passed. However, students must continue to take the first exam of the subsequent chapters at the scheduled exam time. All Image ID exams must be completed with a passing score of 76% prior to attempting the Comprehensive Image ID Exam

Comprehensive Final Image Identification

The comprehensive Image ID exam will be given one time, no repeat attempts will be offered, and students will receive the score earned. Students must pass all Image ID exams to attempt the Comprehensive Image ID Exam.

The comprehensive image I.D. exam will not be rescheduled for students who have not completed all chapter lab exams. See the Procedure Manual for subsequent process.

Inverse Square Law Competency Exam

This course includes two practice technique quizzes and a final competency exam covering the Inverse Square Law and mAs Compensation Laws. There are two practice quizzes located in

the lab handout packet designed to help the student prepare and will not count toward the final lab grade. The final written competency examination over Inverse Square Law and mAs Compensation Laws will be given the third week of the course. The first time the student completes this exam if the grade is 85% or greater, the score received will be recorded. If the grade is 84% or lower, no grade is recorded, and the exam must be repeated. The student should review the material, and then ask for assistance before repeating the exam. If the first repeat grade is 85% or higher, a grade of 85% is recorded. If the grade is lower, the exam must again be repeated. If the grade on the second repeat is 85% or higher, an 80% is recorded. If the grade is lower, the student should seek assistance before repeating it. This procedure will continue until the student receives a grade of 85% or higher. Each time the recorded grade will be 5% lower.

The final Inverse Square Law and mAs Compensation Laws Exam is worth 3% of the laboratory grade. The student should start taking this exam beginning the week of **October 27th, 2025** **final date to complete this requirement is November 24th, 2025 @ 6 p.m.** **Failure to complete by 11/24/2025 will result in a zero.**

Medical Terminology

This course includes a test over Medical Terminology related to the chapters of study. There is a practice quiz located in the lab handout packet designed to help the student prepare and will not count toward the final lab grade.

The final written competency examination over medical terminology can be taken starting any time after **DATE**. The first time the student completes this exam if the grade is 85% or greater, the score received will be recorded. If the grade is 84% or lower, no grade is recorded, and the exam must be repeated. The student should review the material, and then ask for assistance before repeating the exam. If the first repeat grade is 85% or higher, a grade of 85% is recorded. If the grade is lower, the exam must again be repeated. If the grade on the second repeat is 85% or higher, an 80% is recorded. If the grade is lower, the student should seek assistance before repeating it. This procedure will continue until the student receives a grade of 85% or higher. Each time the recorded grade will be 5% lower.

The Medical Terminology Exam is worth 3% of the laboratory grade. The student should start taking this exam beginning the week of **DATE final date to complete this requirement is DATE at TIME. Failure to complete by DATE will result in a zero.**

Laboratory Quizzes

It is expected that students will read and study the assigned material covering the unit in the Bontrager Text before the instructional lab session. Students must assume responsibility for preparing for labs and lab lecture. Laboratory experiences are designed to clarify and reinforce positioning and radiographic anatomy skills. Quizzes covering basic positioning facts will be given at the beginning of each instructional lab lecture session. Students may utilize self-prepared notes for these quizzes. The lowest quiz score will be dropped. There will be no make-up quizzes given. prepared notes for these quizzes. The lowest quiz score will be dropped. There will be no make-up quizzes given.

Practical Examinations

Three positioning practicals will be given during the eight weeks. Students must pass all three practicals to be successful in the course. Students may attempt to pass a practical up to a maximum of five times. Prior to any practical or the 3rd or subsequent repeat practical attempts, students must complete at least one session of supervised open lab. Students are encouraged to complete open lab sessions where direct supervision is provided. In addition, students are encouraged to use the lab for extra practice anytime a faculty member is present and indirect supervision is available

The student must have his/her own lead markers, radiation monitoring badge and follow the dress code to attempt a practical exam. All practicals must be successfully completed by **DATE at TIME**. On the last day of practicals, only 2 attempts and 1 open lab will be scheduled for the student. If the student has not successfully passed all 3, the student will earn an "F" for the course.

Repeat practical exams will be permitted after the student has completed one shared hour of open lab time and successfully completed a written test covering a random selection of one of the positions in the Bontrager chapter.

Positioning of patients in clinic

For each radiographic unit presented in the laboratory, the student must demonstrate competency on the practical, image identification, and laboratory examinations before communication will be sent to the clinical coordinator. After completing the above requirements, the radiographic lab instructor will e-mail your clinical coordinator and this will serve as verification that you may then begin positioning patients in the clinical setting. Without this communication, the student may not perform these radiographic examinations on patients at the clinical education centers.

Eating and drinking in lab

No eating or drinking will be permitted in the laboratory with the exception of bottled water.

Enema Phantom Competency Requirement

All students are required to successfully complete a competency using the enema phantom with their lab instructor during the Chapter 13 Positioning Labs. This activity is a mandatory component of the course and must be completed to demonstrate proficiency in lower gastrointestinal contrast study positioning and procedural understanding. Competency must be verified and signed by the lab instructor prior to completion of the chapter lab series.

RAD 113 RADIOGRAPHY LABORATORY SCHEDULE Fall 2025

Week of	DATE Lab Lecture Session TIME LOCATION	DATE Lab Lecture Session TIME LOCATION	DATE Lab Lecture Session TIME LOCATION	DATE Instruction Lab TIME LOCATION
	QUIZ CHAPTER 7 Bontrager Ch 7	Bontrager Ch 7 Power point	Bontrager Ch 7 Power point	Positioning lab manual and Bontrager Ch. 7
	Bontrager Ch. 7 Lab Exam	Bontrager Ch 7 Student Image Review	Math review session	Bontrager Chapter 7 PRACTICAL AND IMAGE ID *Med Term test open in course *Sign up for math testing on BlackBoard
	Quiz Ch. 12 Bontrager Ch. 12	Bontrager Ch. 12 Power point	Bontrager Ch. 12 Power point	Positioning, lab manual and Bontrager Ch. 12
	Bontrager Ch 12 Lab Exam Bontrager Ch 14 Lab exam	Bontrager Ch. 12 Student Image Review **Chapter 14 will be recorded in the course for self- study	Bontrager Ch. 12 Image Critique Chapter 14 Bontrager exam will be open in the course on Monday Nov. 10th at 1pm will close at 4pm on Friday Nov 14th at 5pm	Bontrager Ch. 12 PRACTICAL AND IMAGE ID
	Quiz Ch. 13 Bontrager Ch. 13	Bontrager Ch. 13 Power point	Bontrager Ch. 13 Power point	Positioning, lab manual and Bontrager Ch. 13
	Bontrager Ch 13 Lab Exam	Bontrager Ch. 13 Student Image Review	Bontrager Ch. 13 Image Critique	Surgical Experience *All students will attend on DATE in HEC Surgical Lab Groups to be assigned from TIME
	Comprehensive Bontrager and Image Review TIME Repeat testing TIME			Bontrager Ch. 13 PRACTICAL AND IMAGE ID

	Comprehensive Bontrager DATE at TIME Deadline date for completing Math and Medical Terminology testing is DATE at TIME Deadline date for completing all Bontrager testing is DATE at TIME Deadline date for completing Image ID's is prior to taking comprehensive in instructional lab. Deadline date for completing practicals is DATE at TIME	Repeat Practical Ch. 13 and Ch. 14 (Pt Provided) Comprehensive Image ID Exam
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****Chapter 14 – Power point information will be recorded for the students to view on their own**

Chapter 14 Bontrager – will be posted in the course with Respondus lock down browser, students will take this test on their own time, must be completed, along with all other Chapter Bontrager Exams by DATE at TIME.

Chapter 14 Image ID will be combined with Chapter 13 as well as will be included in the Comprehensive Image ID

Disclaimer: “The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course.