



North Central State College
MASTER SYLLABUS
2019-2020

- A. Academic Division: Health Science
- B. Discipline: Radiological Sciences
- C. Course Number and Title: RADS 2360 Imaging Science 3
- D. Course Coordinator: Ellen Johnson, M.E., R.T. (R)
Assistant Dean: Melinda Roepke, MSN, RN

Instructor Information:

- Name: [Click here to enter text.](#)
- Office Location: [Click here to enter text.](#)
- Office Hours: [Click here to enter text.](#)
- Phone Number: [Click here to enter text.](#)
- E-Mail Address: [Click here to enter text.](#)

- E. Credit Hours: 1.5
Lecture: 0.5
Laboratory: 2
- F. Prerequisites: RADS 1240, BIOL 2752
Co-Requisites: RADS 2340(m)
- G. Syllabus Effective Date: Fall, 2019
- H. Textbook(s) Title:

Introduction to Radiography Sciences and Patient Care

- Authors: Adler and Carlton
- Copyright Year: 2012
- Edition: 5th
- ISBN #: 9781437716467

Radiographic Image Analysis

- Authors: McQuillen
- Copyright Year: 2015
- Edition: 4th
- ISBN #: 9780323280525

- I. Workbook(s) and/or Lab Manual: None
- J. Course Description: This course provides basic concepts of pharmacology, EKG, venipuncture and administration of diagnostic contrast agents and intravenous medications. The appropriate delivery of patient care during these procedures is emphasized. Students also continue to evaluate radiographic images for diagnostic efficacy.

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Recognize common nomenclature associated with pharmacology.	Test Week 3
2. Describe the actions, indications and precautions related to various drugs as related to diagnostic radiology.	Relevant Drug Worksheet Week 2
3. Perform venipuncture using appropriate standard precautions.	Skills test – Week 4
4. Identify radiographic contrast agents used in diagnostic radiologic examinations.	Radiographic Exam Grid Week 5
5. Differentiate among the major adverse effects of various contrast agents.	Test Week 7
6. Recognize normal vs. abnormal EKG patterns.	Worksheet Week 7

M. Topical Timeline (Subject to Change):

Week 1	Introduction to Pharmacology
Week 2	Drug Nomenclature and Methods of Drug Classifications
Week 3	General Pharmacology Principles and Drug Administration
Week 4	Venipuncture / Pharmacology of Contrast Agents
Week 5	Pharmacology of Contrast Agents
Week 6	Contrast Agents and Radiologic Examinations
Week 7	Contrast Agents and Radiologic Examinations / EKG
Week 8	EKG

N. Course Assignments:

Weekly Reading	Progressive Tests
Worksheets	Skills practice
Chapter Review Questions	

O. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average

83-86	B	3.00	Above Average
80-82	B-	2.67	Above Average
77-79	C+	2.33	Average
73-76	C	2.00	Average
70-72	C-	1.67	Below Average
67-69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00-59	F	0.00	Failure

P. Grading and Testing Guidelines:

Tests	150 points
Homework	37 points
Laboratory	40 points
Participation	8 points
Comprehensive Final	<u>100 points</u>
TOTAL	335 points

Q. Examination Policy:

Test dates are given on the course calendar which is handed out on the first class day. Every attempt will be made to follow this schedule. However, if a change is needed it will be announced in class. If a test has to be changed, I will give the class at least one-week notice.

The Radiology Department believes that a grade below C- indicates a lack of mastery of essential content and skills. Any student who receives less than C- in any radiological sequence course cannot continue in the program or meet graduation requirements.

R. Class Attendance and Homework Make-Up Policy:

Generally, the student will be expected to make-up any missed test/quiz on the next day that student is on campus OR using the campus make-up test service, whichever comes first. Exceptions may be made at faculty discretion. The student **must speak to the instructor directly** or communicate through email before the next class meeting time so make-up arrangements can be made. If I haven't talked to you directly, I will email you. All emails posted prior to 10 pm are valid even if you are not aware of the email.

S. Classroom Expectations:

All students are expected to be in class and on time. If a student cannot make it to class they are to call or email the instructor before the scheduled start of class. Any student missing a quiz/test or assignment deadline may not take the quiz/test or hand in the assignment late unless calling in / emailing before class starts.

1. If you miss a class period, you are responsible for all material covered that period and are expected to be prepared for the next class. Please communicate directly with the instructor if you miss a class.
2. Students should call if unable to be in class. Students must call in on the day of a test or assignment prior to the beginning of class. **Failure to do so will result in a 10% deduction from the student's score on that test.**

Participation points will be subtracted for tardiness, absences, and leaving class early. Again, talk to me before the next class.

NOTE: In all cases, the student must call prior to the beginning of class.

The first missed test/assignment	No deduction from score
The second missed test/assignment	Minus 8% from earned score

Additional missed test/assignment

Zero

Any student who arrives late for a test may not be permitted to take the test at that time. The test will then be treated as a make-up test.

3. All students are expected to demonstrate professional behavior in the classroom and use language appropriate for the classroom learning experience.
4. Cell phone use is not permitted during class time. Any student's cell phone that rings, vibrates loudly, or is used for texting during class will result in a \$1.00 fine from that student. Monies collected from cell phone fines will be donated to the Robert L. Garber Scholarship for radiology students.

T. College Procedures/Policies:

Important information regarding College Procedures and Policies can be found on the [syllabus supplement](https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf) located at <https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf>

The information can also be found Choose an item.