



North Central State College

MASTER SYLLABUS	2026-2027
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- A. Academic Division: Health Sciences
- B. Discipline: Radiological Science
- C. Course Number and Title: RADS 2322 Clinical Practicum/Seminar 3
- D. Assistant Dean: Dr. Jason Tucker, Ph.D.
- E. Credit Hours: 2
 Practicum: 1.5
 Seminar: 0.5
- F. Prerequisites: RADS 1221, RADS 1270
Co-requisites: RADS 2350m
- G. Last Course/Curriculum Revision Date: Spring 2024 Origin date: Fall 2025
- H. Textbook(s) Title: None
- I. Workbook(s) and/or Lab Manual:

Radiologic Sciences Policy and Procedure Manual (provided to the student in the first semester of the program)
- J. Course Description: Clinical Practicum is designed to provide students with practical application of material learned in didactic courses. In this course students will apply their expanding knowledge of radiographic procedures to the field by positioning patients for exams, practicing radiation protection and providing patient care under the appropriate level of supervision by qualified radiographers. Students will continue to develop equipment manipulation skills in surgery and portable imaging. Clinical hours will shift to include some second-shift rotations with a focus on the application of performing exams on trauma patients. The image evaluation process will continue and be applied to various exams within the clinical setting. Students will continue to complete clinical objectives and perform clinical competencies. Seminar time will be provided on campus and students will receive an introduction to sectional anatomy to enable them to review images for their Capstone Case study in the final semester.
- K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	Reflective Journal week 7
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. Use effective oral, written and nonverbal communications skills when interacting within the health care field.	Image evaluation rubrics weeks 3 and 7; Clinical Preceptor evaluation rubric week 8; Case study proposal rubric in seminar week 4; Review of technologist evaluations and clinical competency rubrics; Reflective Journal week 7
2. Perform medical imaging procedures under the appropriate level of supervision	Clinical Preceptor evaluation week 8; review of competencies and procedures logs week 8;
3. Provide patient-centered, clinically effective care for all patients regardless of age, gender, disability, special needs, ethnicity or culture.	Review of technologist evaluations and clinical competencies week 8; Clinical Preceptor evaluation rubric week 8; Final exam week 8
4. Demonstrate competency in the principles of radiation protection standards	Review of technologist evaluations, clinical competency rubrics and procedures logs week 8; Clinical Preceptor evaluation rubric week 8;
5. Position patients for exams using correct positioning skills	Review of technologist evaluations, clinical competency rubrics and procedures logs week 8, Clinical Preceptor evaluation rubric week 8; clinical final exam week 8
6. Operate medical imaging equipment correctly	Review of technologist evaluations, clinical competency rubrics and completed clinical objectives week 8; Clinical Preceptor evaluation rubric week 8
7. Input and retrieve data correctly while using the clinical facility's HIS/RIS system	Review of technologist evaluations, clinical competency rubrics and the Clinical Preceptor evaluation week 8; Image evaluation rubrics in seminar week 3 and 7; Capstone proposal #1 rubric in seminar week 4
8. Select technical factors to produce quality diagnostic images with the lowest radiation exposure possible	Review of technologist evaluations, clinical competency rubrics and completed procedures logs week 8; Clinical Preceptor evaluation week 8; Image evaluation rubrics in seminar week 3 and 7
9. Evaluate images for appropriate anatomy, image quality and patient identification	Image evaluation presentation rubric weeks 3 and 7 in seminar; Cross-sectional anatomy quiz in seminar week 2; Review of technologist evaluations, clinical competency rubrics and Clinical Preceptor evaluation rubric week 8; clinical final exam week 8
10. Integrate the appropriate personal and professional values into clinical practice.	Review of technologist evaluations and clinical competencies week 8; Image evaluation rubric in seminar weeks 3 and 7; Reflective Journal week 7; Clinical Preceptor evaluation week 8

M. Recommended Grading Scale:

This class is graded as Pass or No Pass. Students must obtain and 85% or higher in the course to receive a Pass. Students who do not pass will not be able to remain in the Radiological Sciences program.

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences.

Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at

<https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf>



North Central State College
SYLLABUS ADDENDUM

Academic Division: <u>Health Science</u>	Discipline: <u>Radiological Sciences</u>
Course Coordinator: <u>Heidi Chambers</u>	
Course Number: <u>RADS 2322</u>	Course Title: <u>Clinical Practicum 3</u>
Semester / Session: <u>Summer 2026</u>	Start / End Date: <u>5/26/2026 thru 7/17/2026</u>

Instructor Information

Name: <u>Heidi Chambers</u>	Credentials: <u>BRST, R.T. (R)</u>
Phone Number: <u>419-755-4809</u>	E-Mail Address: <u>hchambers@ncstatecollege.edu</u>
Office Location: <u>152 Health Sciences Building</u>	Office Hours: <u>By appointment, in person or via zoom as needed</u>

I. Topical Timeline / Course Calendar (Subject to Change):

Weeks	Topics	Assignment	Date
1	HIPAA	Review PowerPoint and quiz	6/1/2026
2	Hip Pelvis Contrast Agents	Image analysis quiz Contrast Procedures Research Worksheet	6/8//2026 6/15/2026
3	Shoulder Girdle	Image analysis quiz	6/15/2026
4	Ribs and Sternum	Image analysis quiz	6/22/2026
5	Cervical Spine	Image analysis worksheet	6/29/2026
6	Thoracic Spine	Image analysis worksheet	7/6/2026
7	Lumbar spine SI joints Sacrum Coccyx	Image analysis worksheet Image analysis worksheet	7/6/2026
8	Clinical Final	Comprehensive for listed topics (RADS 1221 procedures)	7/14/2026

II. Grading and Testing Guidelines:

Final Grade Calculation

Activity	Qty	Points	Percentage
1. Clinical Preceptor Evaluation	1	100	30%
2. Competencies	10	100	25%
3. Daily Technologist Evaluations	21	36	10%
4. Clinical Test	1	90	25%
5. Seminar			15%
• HIPAA quiz	1	10	
• Clinical Contrast Procedures	1	20	
• Image analysis quiz	3	Varies per unit	
• Worksheets	4	15	
	Total		100%

1. The students designated clinical preceptor will complete an evaluation of Activities 1-3 of the final grade calculation.
2. Program faculty will proctor Activities 4 and 5 of the final grade calculations.

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3. **NOTE:** The overall clinical course grade is weighted. If a student does not pass clinical course with an 85% or higher, they will receive a no pass. The student will not be permitted to continue clinical courses and therefore cannot continue in the radiology program.

III. Clinical Competency Policy:

1. Students will be expected to perform clinical competencies throughout the semester
 - a. The student must pass a clinical simulation at NCSC before attempting any competency exam.
 - b. The student must receive a score of two in all applicable starred areas of the competency AND
 - c. The student must receive an 85% or higher to pass.
2. A student who does not receive a score of two in all applicable starred areas and/or receives less than 85% total will be required to retake the competency.
 - a. All repeat competencies must be completed with the designated clinical preceptor.
 - b. On repeat, 10% will automatically be deducted from the final score.
 - c. A student must receive an 85% or higher to pass repeat competency.
3. Ten clinical competencies are required for this semester.
 - a. Clinical competencies should be completed with the designated clinical preceptor. They may designate a qualified/approved technologist for competency purposes when not available.
 - b. On completion of ten successful competencies, a student may perform 3 additional competencies in the "Free Zone." Free zone competencies will be applied to next semester requirements.
 - c. All free zone exams are to be completed with the students designated clinical preceptor.

IV. Clinical Attendance and Make-Up Policy:

1. Clinical attendance is necessary in obtaining a high level of competency.
2. Students are responsible for attending all clinical rotation days.
 - a. The student will clock 21 clinical days/ 168 hours.
 - b. The student will clock time (in and out) through Trajecsys.
 - c. The student will be on time and not clock out before the end of the clinical day.
3. Clinical absences, unverified clock times, early clock outs are documented as an occurrence.
 - a. The student will refer to the NCSC Radiological Sciences Policy and Procedure Manual for Clinical Education for a complete list of occurrences.
 - b. All missed time from occurrences require make up time.
4. If a student misses clinical time for any reason, a Clinical Make-Up plan will be coordinated and approved with the designated clinical preceptor.
 - a. The make up plan must reflect the same or similar hours missed and be the same or similar clinical rotation missed.
 - b. All make up time must be completed before the end of semester date to avoid a No Pass for a clinical grade.
 - c. Make up time cannot occur during weekend or holiday hours.
 - d. Program faculty and clinical preceptors reserve the right to schedule or deny make-up plan requests.

V. Clinical Expectations:

1. **The NCSC Student Radiographer is expected to:**
 - a. Adhere to all policies and procedures written in the student policy and procedure manual for clinical education.
 - b. Adhere to all policies of NCSC in the student handbook

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- c. Adhere to all policies and procedures required by the sponsoring clinical facility.
- d. Demonstrate professionalism required in the hospital setting and in the health care field:
 - Dress professionally
 - Act professionally
 - Speak and write in a professional manner using terminology essential to the profession
 - Treat patients with dignity and respect according to the Patient’s Bill of Rights
 - Display excellent attendance
 - File and/or complete all required clinical documentation in a timely manner
- e. Practice radiation protection according to the **ALARA (as low as reasonably achievable)** principle

For Patients:

- Minimal repeat exposures
- Provide shielding for all patients and staff
- Use smallest collimation size without interfering with the completed image
- Chose correct technical factors appropriate for the patient’s size and age

For Worker/Students:

- Employ Cardinal Principles: Minimize time, maximize distance and shielding
- Limit amount of time near radiation source
- Maintain minimum of 6ft distance from radiation source
- Wear lead aprons and thyroid shields when standing close to radiation source, during fluoroscopy, surgical c-arm procedures and portable exams
- Record exposure values from radiation monitoring reports promptly

- f. Use lead markers (right and left) correctly and place them on the image **prior** to exposure.
- g. Minimize annotations of laterality (right and left) on all images after the image has been exposed.
- h. Perform exams following the guidelines of the Joint Review Committee on Education in Radiologic Technology (JRCERT):
 - Perform repeat exposures under direct supervision with the technologist in the room checking the image prior to exposure
 - Record repeat exposures on the student tally sheet and have the R.T. initial the exposure indicating direct supervision
- i. Have all images approved by a technologist before releasing the patient from the department and submitting images to the Radiologist for a reading
- j. Maintain patient safety in accordance with the patient safety policy in the (PPM)
- k. Maintain patient confidentiality standards and meet HIPAA requirements