North Central State College

MASTER SYLLABUS	2025-2026

A. Academic Division: Health Sciences

B. Discipline: Radiological Science

C. Course Number and Title: RADS 1121 Clinical Practicum/Seminar 1

D. Assistant Dean: Heidi Kreglow, PT

E. Credit Hours: 2
Practicum: 1
Seminar: 1

F. Prerequisites:
Co-requisites: RADS 1151m, RADS 1170m, RADS 1175m

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 a practical application of material learned in didactic courses. In this course students will be assigned to an affiliated clinical facility and will complete the onboarding process. An overview to the electronic clinical records system used by the program will be explained and students will begin using the system this semester. Students will manipulate radiology equipment, position patients for exams, practice radiation protection and provide patient care under the appropriate level of supervision by qualified radiographers. Students will complete clinical objectives and perform clinical competencies. Seminar time will be provided on campus and students will learn basic medical abbreviations to aid them in providing medical histories and understanding radiology records at the clinical site. Professionalism as it relates to the health care field will be emphasized. Specific patient care methods for select patient populations will be explored and related to clinical practices.

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. Complete the clinical onboarding process	Clinical Passport completion with rubric – week 8
2. Input and review their own clinical records	Scavenger hunt in seminar week 3; Review of clinical records throughout the semester
3. Use effective oral, written and nonverbal communications skills when interacting within the health care field.	Medical abbreviation quiz in seminar week 6; Clinical reflection video assignment in seminar week 15; Clinical final exam week 15; Review of technologist evaluations and clinical competency rubrics week 15
4. Perform medical imaging procedures under the appropriate level of supervision	Review of technologist evaluations; clinical competency rubrics and procedures log week 15
5. Provide patient-centered, clinically effective care for all patients regardless of age, gender, disability, special needs, ethnicity or culture.	Geriatric and trauma patient quiz in seminar week 15; Review of technologist evaluations and clinical competency rubrics, week 15; Final exam week 16
6. Demonstrate competency in the principles of radiation protection standards	Review of technologist evaluations, clinical competency rubrics and procedures logs week 15 clinical final exam week 16
7. Position patients for exams using correct positioning skills	Review of technologist evaluations, clinical competency rubrics and procedures logs week 15, clinical final exam week 16
8. Operate medical imaging equipment correctly	Review of technologist evaluations, clinical competency rubrics and completed clinical objectives week 15
9. Input and retrieve data correctly while using the clinical facility's HIS/RIS system	Review of technologist evaluations, clinical competency rubrics and completed clinical objectives week 15
10. 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 15
11. Evaluate images for appropriate anatomy, image quality and patient identification	Review of technologist evaluations; clinical competency rubrics and procedures log week 15; Final exam week 16
12. Integrate the appropriate personal and professional values into clinical practice.	Professionalism self-evaluation rubric by week 15 in seminar; Review of technologist evaluations and clinical competency rubrics week 15

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:	Health Science	**Discipline:**	Radiological Sciences
Course Coordinator:	Heidi Chambers		
Course Number:	RADS 1121	**Course Title:**	Clinical Practicum 1
Semester / Session:	Fall 2025 / Full 16 Week Session	**Start / End Date:**	8/11/2025 thru 12/12/2025

Instructor Information

Name:	Heidi Chambers	**Credentials:**	BRST, R.T. (R)
Phone Number:	419-755-4809	**E-Mail Address:**	hchambers@ncstatecollege.edu
Office Location:	152 Health Sciences Building	**Office Hours:**	By appointment, in person or via zoom Tues 2p-4p; Wed: 11a-12p; Thurs 12p-2p

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

Weeks	Topics	Assignment	Date
1	Radiography and Other Imaging Specialties	Seminar Research Assignment	Aug 13
2	HIPAA / Clinical Policies and Procedures	Seminar Presentation and Quiz	Aug 20
3	Chest Radiography	Clinical Practice and Competency	No later than Dec 5
4	Clinical Policies and Procedures	Seminar review	Aug 27
5	Abdominal Radiography	Clinical Practice and Competency	
6	Upper Limb	Clinical Practice and Competency	
7	Upper Limb	Clinical Practice and Competency	
8	Introduction to Mobile Imaging		
Fall Break Oct 6-11			
9	Upper Limb	Clinical Practice and Competency	
10	Upper Limb	Clinical Practice and Competency	
11	Lower Limb	Clinical Practice and Competency	
12	Lower Limb	Clinical Practice and Competency	
13	Lower Limb	Clinical Practice and Competency	
14	Lower Limb	Clinical Practice and Competency	
15	Lower Limb	Clinical Practice and Competency	
16	Introduction to Surgical Radiography		
17	Clinical Final	Exam	Dec 9

II. Grading and Testing Guidelines:

Final Grade Calculation

Activity	Qty	Points	Percentage
1. Attendance		15	15%
2. Dress Code		6	6%
3. Objectives	6	18	18%
4. Competences	2	20	20%
5. Clinical Notebook		6	6%
6. Seminar		10	10%
7. Clinical Test	1	25	25%
	Total	100	100%

1. The students designated clinical preceptor will complete an evaluation of Activities 1-5 of the final grade calculation.
2. Program faculty will proctor Activities 6 and 7 of the final grade calculations.
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 note 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. Two clinical competencies are required for this semester.
   a. The student must demonstrate a routine chest (PA and Lateral) before the end of the semester.
   b. Additional competencies can be from any clinical procedure listed with clinical practice/competency in the current semester's topical timeline.
   c. On completion of two successful competencies, a student may perform 3 additional competencies in the "Free Zone." Free zone competencies will be applied to next semester requirements.
   d. All Fall 1 competencies and 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 15 clinical days/105 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.

Course Number: _____ **Course Title:** _____
Semester / Session: _____ **Start / End Date:** _____

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
   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