

CASPER COLLEGE COURSE SYLLABUS  
**RDTK 1810 01**  
**CLINICAL EDUCATION II**

**Semester/Year:** Fall 2015

**Lecture Hours:**

**Lab Hours:** 13.5

**Credit Hours:** 3

**Class Time:** 7:30-12:45: See  
clinical rotation schedule.  
2:00-3:15: Simulation

**Days:** Thursday/Fridays: See  
clinical rotation schedule.  
Monday/Tuesday: Simulation

**Room:** HS118/119 Simulation  
in College Lab

**Instructor's Name:** Fred Kuck B.S., R.T. (R) (ARRT)

**Instructor's Contact**

**Office Phone:** 268-2239

**Email:**

**Information:** Please leave  
message with date, time, and  
return contact information.

fredk@caspercollege.edu

**Office Hours:** HS 119 Monday/Tuesday 9:30-11:30

**Course Description:** This course involves a practical learning experience in the clinical radiographic environment. Students participate at pre-scheduled time periods and practice their radiographic skills for a total of 195 clinical education hours at various clinical locations. Students will be under the supervision of clinical instructors or registered radiographers during their experience. Skills necessary to perform entry level tasks in the clinical setting will be reviewed. Positioning skills of the shoulder, humerus, clavicle, scapula, AC joints, and lower extremities including the pelvic girdle will be covered. See program policies for clinical clock hours vs. credit hours description.

**Statement of Prerequisites:** RDTK 1710

**Goal:** Upon satisfactory completion of this course the student will have the knowledge and technical skills (at an entry level) to competently and safely perform, with quality patient care, medically diagnostic imaging related to the content studied in this course. The student will also be able to demonstrate this knowledge by answering correctly any questions related to this material that may be asked on the ARRT Registry test for radiographers.

**Outcomes:**

1. Demonstrate effective oral and written communication
2. Use the scientific method
3. Solve problems using critical thinking and creativity
4. Use appropriate technology and information to conduct research
5. Describe the value of personal, civic, and social responsibilities

**Course Objectives:**

Procedure Comprehension

During clinical education and simulation the student will:

1. Describe the anatomy visualized.
2. Describe the positions used, in terms of direction of the central ray and part placement.
3. Name the size of film ordinarily used.
4. Name the contrast media, if any used.

5. Describe the preparation of the patient.
6. Identify radiographs of the basic positions.
7. On radiographs, label the anatomic parts.
8. Explain variations in tube/IR placement required to compensate the patient's inability to be moved.
9. Explain variations in technique required for various patient types.
10. Explain variations in technique required to avoid motion in uncooperative patients.
11. Demonstrate correct communication skills needed to successfully perform each exam.
12. Demonstrate proper radiation protection measures for each procedure/exam discussed.

### Procedure Practice

In the clinical setting the student will:

1. Correctly position the patient, stabilizing or immobilizing as needed.
2. Select the correct film size.
3. Align the x-ray tube to part and film.
4. Adjust the cone or collimator to appropriate field size.
5. Demonstrate the application of necessary protective shielding.
6. Measure the part.
7. Select the appropriate technical factors for patient and film-screen combination.
8. Expose the radiograph.
9. Evaluate the radiograph for accuracy of positioning.
10. Utilize proper radiation protection practices for each exam.
11. Demonstrate effective problem solving and critical thinking skills for all procedures.

**Methodology:** Lecture, lab, practice, demonstration with hands-on experience in all aspects of Clinical Education. Your feedback is valuable as the instructor uses course evaluations in determining course methodology.

### **Evaluation Criteria:**

- |                 |     |
|-----------------|-----|
| 1. Simulations  | 30% |
| 2. Competencies | 30% |
| 3. Final Exam   | 20% |
| 4. Supervisory  | 20% |
- (Objectives and Rotation Evaluations, Assigned Review Skills/Activities)

GRADING SCALE:   A = 92-100%  
                           B = 83-91%  
                           C = 75-82%  
                           F = 0-74%

**Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.**

### **Required Text, Readings, and Materials:**

1. Bontrager, K. & Lampignano, J. (2010). *Textbook of Radiographic Positioning and Related Anatomy (7<sup>th</sup> ed.)*(optional:e-book edition).St. Louis. Mosby Elsevier.
2. Bontrager, K. & Lampignano, J. (2010). *Bontrager's Handbook of Radiographic Positioning and Techniques (7<sup>th</sup> ed.)*(optional:e-book edition).St. Louis. Mosby Elsevier.

## **Class Policies:**

1. The following radiographic simulations will be performed by the student and graded by the clinical faculty throughout the semester: 1. Shoulder/Humerus 2. Clavicle/Scapula/AC joints 3. Toe/Foot 4. Calcaneus/Ankle 5. Lower Leg/Knee 6. Femur/Hip/Pelvis

The student will demonstrate the required procedures as they relate to departmental routines with above average achievement (85% or better).

2. Clinical competency evaluations will be used to evaluate the student in varying factors which are necessary for production of a quality radiograph. (See Clinical Handbook for evaluation criteria) These factors include: selection of technique, manipulation of equipment and patient, as well as attitude and values of the student. The student will meet the above criteria for each selected exam. The clinic instructor or supervising technologist performs this evaluation and the student is expected to perform with above average achievement, 85% or better. A minimum of eight clinical competencies is required for this semester. A competency attempt grade below 85% is not accepted as demonstration of competency and requires a repeat attempt. More than 2 attempts requires remedial instruction. All competency grades are averaged together and weighted according to the grading evaluation criteria. Students are also required to turn in a film critique form for each competency exam completed. A grade of "0" will be given for any competency that does not have an associated film critique turned in. Clinical assignments are due on the Friday following the completion of the student's clinical rotation in which the competency was performed.
3. The student will display professional attributes at all times during the clinical situation and this area will be evaluated once at midterm and once at the end of the semester through a tool called the Supervisory evaluation.
4. An affective evaluation of the student will be completed in Moodle by a Radiologic technologist that the student worked with during their assigned clinical rotation. Also, the student will fill out an instructor/preceptor and site evaluation for each of their assigned clinical rotations in Moodle. **It is the student's responsibility to be sure these evaluations are completed following each rotation.** These evaluations are due by no later than 1 week after the completion each of the student's assigned clinical rotation. Should any excusable unexpected circumstance arise that prevents the student from keeping this due date the instructor must be notified before the due date or the student will receive an incomplete and **receive a failing grade for the semester.**
5. As available, a variety of in-services will be presented to familiarize the student with various areas within the hospital. The student is required to attend all in services to gain knowledge and appreciation for these areas.
6. The student will display a working knowledge of technique as well as the uses of radiographic equipment and ancillary devices. Specified skills will be learned this semester and the student will be tested on these skills during a final examination.
7. It is the philosophy of the radiography faculty at Casper College that for students to gain the utmost from the clinical experience attendance is essential. Therefore in order to maintain the high professional standards expected in clinical the following guidelines will be followed:
  - a. No unexcused absences

- b. No unexcused tardiness
- c. No unprofessional behavior

The following individuals must be notified prior to a clinical absence: clinical site, clinical instructor, and Laurie Weaver (this includes simulation lab). See program policies for further details.

8. Absences: The student's final clinical grade will be lowered 3% for each clinical unexcused absence, including simulation classes. More than two consecutive unexcused absences will result in a "0" for the assigned clinical rotation and the student will not be able to finish the course.  
**All clinical time missed must be made up or the student will receive an incomplete and a failing grade for the semester.**
9. The student will be assigned to a room rotation for a two week period of time. The student is expected to be involved in all activities within that area and play an active role in all procedures. The student will be required to complete the clinical activity and evaluation packet for their assigned rotation and return it to the Clinical Faculty at the end of each two week rotation. A "0" is given for activity/evaluation packets not turned in.
10. Consult the Radiography Program policy manual for all clinical policies concerning uniform, attendance, make-up procedures for missed time, etc.
11. Procedure log - The student will keep the procedure log of all exams performed in Clinical Education II. **Repeats must also be documented and procedure logs validated by a supervising technologist.**
12. Review skills/activities - The student will be required to complete a specified number of review skills and activities during Clinical Education III. These skills/activities that have been chosen to correlate with areas the student needs to stay proficient in to be successful in the clinical setting.
13. A venipuncture module must be completed during Clinical Education II (module available in RDTK 1830, Pharmacology for Radiographers). The module includes: study manual, written exam, video, practice on mannequin arms, and lab with actual venipuncture experience. Upon completion of these objectives, the student can perform venipuncture on patients under direct supervision. Competency in venipuncture must be demonstrated under appropriate supervision and documented prior to the end of Clinical Education III.
14. It is the student's responsibility to turn in film badges by the 15<sup>th</sup> of each month.
15. All assignments for semester must be turned in by the 14<sup>th</sup> of December.
16. **The policies of direct and indirect supervision must be followed by all students, at all clinical sites.** Direct supervision is required during all exams in which the student has not passed a clinical competency with an 85% or better for that particular exam, and during all repeat exposures. Indirect supervision is acceptable once a student has passed a clinical competency with an 85% or better, on that particular exam. Please see program policies and procedures.  
**CLINICAL ACTIVITIES AND ASSIGNMENT REQUIREMENTS:** All clinical assignments are due by 4:30 on the Friday following the completion of the rotation 5% per day will be deducted for late assignments.

1. Competency exam form and the associated competency film critique.
2. Simulation Testing- Simulation testing will be completed on a specific number of exams
3. Random Simulation Testing – Random testing will be conducted at the hospital. These exams are to be given by the Clinical Instructors and are to cover exams in which the student has tested on previously.
4. Rotation evaluations: Completed and turned in following each rotation. “0” grade for any not turned in.
5. Objectives: Rotation objectives will be completed and turned in following each rotation. “0” grade for any objectives not turned in.
6. Final Exam: A practical exam covering film critique and positioning will be given at the end of the semester. 20% of final grade.
7. Competency evaluations- 8 required – 85% or better. Competency film critique form for each exam completed.
8. Procedure log - must be kept current with documentation of repeats included.
9. Assigned review skills/activities must be completed by the end of the semester.

**Last Date to Change to Audit Status or to Withdraw with a W Grade:**

Last day to withdraw is November 12th.

**Note: You cannot withdraw from this course without withdrawing from the program.**

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Interim Vice President for Academic Affairs.

**Academic Dishonesty:** (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, [bheuer@caspercollege.edu](mailto:bheuer@caspercollege.edu). The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

**Calendar or schedule indicating course content:**

<b>Aug. 24 (all students)</b>	Course Introduction and Review
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Aug. 25	Open Lab for review and practice
Aug. 31 or Sept. 1	Simulation Lecture/Lab Shoulder and Humerus
<b>Sept. 7</b>	<b>Labor Day (no class)</b>
Sept. 8	Simulation <b>Test:</b> Shoulder and Humerus
Sept. 14 or 15	Simulation Lecture/Lab Clavicle, Scapula, and AC Joints
Sept. 21 or 22	Simulation <b>Test:</b> Clavicle, Scapula, and AC Joints
Sept. 28 or 29	Simulation Lecture/Lab Foot and Toe
Oct. 5 or 6	Simulation <b>Test:</b> Foot and Toe
Oct. 12 or 13	Simulation Lecture/Lab Ankle and calcaneus
<b>Oct. 19 - 20</b>	<b>Fall Break- No class or clinical</b>
Oct. 26 or 27	Simulation <b>Test:</b> Ankle and calcaneus
Nov. 2 or 3	Simulation Lecture/Lab Low leg- Tibia/Fibula and Knee
Nov. 9 or 10	Simulation <b>Test:</b> Low leg and Knee
Nov 16 or 17	Venipuncture Lab from 2:00 – 4:00 pm in LS
Nov. 23 or 24	Simulation Femur/Pelvis/Hip
Nov. 30 or Dec. 1	Simulation <b>Test:</b> Femur/Pelvis/Hip
Dec. 7 or 8	Review/testing
<b>Dec. 14 – 17 (M-Th)</b>	<b>Final Exam scheduled during this week.</b> The final exam will be a comprehensive final to include positioning and film critique. The student will be given a specified number of projections that they will perform and be evaluated on. This will include one scenario in which the student will need to utilize critical thinking skills to perform the exam.

Note: Schedule subject to change with notification from instructor.