

SALT LAKE COMMUNITY COLLEGE
Radiologic Technology Program

Course Syllabus

Course and Credit Hours:	RADS 2050, 2 Credit hours
Name of Course:	Advanced Patient Care
Semester and Term:	
Class Time and Location:	
Instructor and Phone:	
Office Location:	
Mailbox Location:	
Email Address:	
Consultation Hours:	
Textbook:	Introduction to Radiologic Sciences and Patient Care 7 th edition By Adler and Carlton Merrill's Volume 3, 14 th Edition for Geriatric Radiography
Required Equipment:	None
Library Link:	For a list of resources that support the program go to: http://libguides.slcc.edu/content.php?pid=16754
Prerequisite:	Completion of prior semester courses per established curriculum plan.
Course Description:	Covers advanced skills required while caring for a patient. Topics include ethics and law, contrast media and pharmacology. Also includes venipuncture and care for age-specific patients.

SLCC Student Learning Outcomes:

SLCC is committed to fostering and assessing the following student learning outcomes in its programs and courses.

1. Acquire substantive knowledge
2. Communicate effectively
3. Develop quantitative literacies
4. Think critically & creatively
5. Become a community engaged learner
6. Work in professional & constructive manner
7. Develop computer & information literacy
8. Develop lifelong wellness

Student Learning Outcomes:

At the completion of this unit, the student will be able to:

1. Pharmacology

Reading Assignment: **Chapter 21**

- Recognize common definitions and nomenclature associated with pharmacology.
- Describe the difference between a chemical name, a generic name and a brand name of a drug.
- Define how drugs are classified by name, action, or legal classifications.
- List dosage forms for drugs.
- Describe the actions, indications, and precautions related to various classifications of drugs.
- Identify emergency drugs commonly found on a crash cart.
- Explain the response factors of drugs to include absorption, distribution, metabolism, and excretion.
- Describe other factors that can affect an individual's response to a drug.
- List and describe sedation levels.

Assignment:

Students must read "Pharmacology in Radiology" on Canvas and complete a CE quiz.

2. Principles of Drug Administration

Reading Assignment: **Chapter 22**

- Describe the 5 Rights of Drug Administration.
- Identify the common metric systems of measurement.
- List methods of drug administration.
- Identify the appropriate areas for drug administration.
- Perform simulated venipuncture.
- Describe documentation procedures related to drug administration.
- Identify common standard abbreviations.

3. Contrast Media

Reading Assignment: **Chapter 23**

- State the purpose of contrast media.
- Differentiate between low and high subject contrast.
- Compare negative and positive contrast agents.
- Name the general types of contrast media used for specific radiographic procedures.
- List the serious complications of the administration of barium sulfate.
- Match specific procedures to particular patient instructions.
- Explain the importance of osmosis as it relates to various effects of iodinated ionic contrast media.
- Discuss the advantages of nonionic iodinated contrast media.
- Differentiate among the major adverse effects of various contrast agents.
- Recognize clinical symptoms of adverse reactions to iodinated contrast media to the level of treatment required.
- Relate the patient history to the possibility of adverse reactions.
- Introduce general concerns and issues when using contrast agents in children.

Assignment:

Students must read "Adverse Effects of Iodine-derived Intravenous Radiopaque Contrast Media" on Canvas and complete a CE quiz.

4. PROFESSIONAL ETHICS,

Reading assignment: **Chapter 24**

Appendix D ARRT Code of Ethics

- Explain the ethics of the radiologic technology profession.
- Differentiate between systems of ethics, law, and morals.
- Explain the four-step problem-solving process of ethical analysis.
- Explain two sources of moral judgment that underlie ethical decision making.
- Identify moral dilemmas encountered in patient relationships, physician relationships and relationships with other health care professionals.
- Recognize values associated with ethical decision making in the practice of radiologic technology
- Define ethical theories that create a foundation on which to base ethical decision making.
- Apply critical analysis to ethical decision making.

5. Health Records and Health Information Management

Reading Assignment: **Chapter 25**

- Identify major health information management department functions.
- List key components of a patient health record in acute care.
- List the key components of a patient health record in alternative health care settings, including ambulatory care and long-term care.

- Describe how health record documentation affects health care facilities and physician reimbursement.
- Describe the prospective payment system, including diagnosis-related groups, ambulatory payment classifications and coding and classification systems.
- Identify coding as it relates to radiologic procedures and the reimbursement impact for health care facilities.
- Identify components of performance improvement and the relationship of performance improvements to all hospital departments.
- Differentiate between confidential and non-confidential information.
- Explain the Health Information Portability Accountability Act (HIPAA) privacy and security requirements in a radiologic setting.
- Discuss the procedure for correcting or amending documentation errors in a patient health record.

6. Medical Law

Reading Assignment: **Chapter 26**

Appendix A: ASRT Practice Standards

Appendix F: The Patient Care Partnership: Understanding Expectations, Rights, and Responsibilities

- Differentiate among the various types of law.
- Outline how the standard of care is established for radiologic technologists.
- Discuss the concept of tortious conduct and causes of action that may arise from behavior of the health care practitioner.
- Argue the importance of privacy of records and the relationship between privacy of records and patient confidentiality issues.
- Explain negligence and the four elements necessary to meet the burden of proof in a medical negligence claim.
- Explain the legal theory of res ipsa loquitur and how an attorney may use it in a claim of medical negligence.
- Illustrate how a hospital may be liable under the doctrine of respondeat superior.
- Justify the need for informed consent.
- Outline the information a patient must have before an informed consent may be given.

Assignment:

Students must read "Medical Ethics and Law in Radiologic Technology" on Canvas and complete a CE quiz.

7. Advance Directives / Living Will

This material will be covered with a PowerPoint presentation and documents will be available on Canvas

- Describe what is meant by the following terminology:
 - Advance directive
 - Living will
 - Special medical power of attorney

- Medical treatment plan
 - Terminally ill
 - Do-not-resuscitate order
- Explain how Utah State Law relates to advance directives.
- Explain basics of preparing a living will including guidelines relating to physicians and witnesses.
- Describe how a living will may be revoked or canceled.
- Review material contained on each of the following documents:
 - Living Will
 - Special Power of Attorney
 - Medical Treatment Plan
- Complete an exercise in filling out a Living Will, Special Power of Attorney and Medical Treatment Plan for yourself.

8. Geriatric Radiology

Reading Assignment: **Merrill's Vol 3 CH 23**

- Describe the radiographer's role with the geriatric patient.
- Discuss the demographic and social effects of aging.
- Describe aspects related to elder abuse, including forms of elder abuse and warning signs of elder abuse.
- Explain how attitudes toward the older adult affect their health care.
- Relate the physical, cognitive and psychological effects of aging.
- List activities the radiographer can perform to help with the physical, cognitive and psychological effects of aging.
- Describe how aging affects the physiology of the following systems:
 - Integumentary system
 - Nervous system
 - Sensory system
 - Musculoskeletal system
 - Cardiovascular system
 - Gastrointestinal system
 - Immune system
 - Respiratory system
 - Hematological system
 - Genitourinary system
 - Endocrine system
- Describe necessary elements of care of the elderly patient relative to each of the following:
 - Patient and family education
 - Communication
 - Transportation and lifting
 - Skin care
 - Contrast administration
 - Joint Commission criteria
- Discuss challenges and solutions when performing geriatric radiology on:

- Chest
- Spine
- Pelvis and hip
- Upper extremity
- Lower extremity
- Technical factors

Course Requirements:

Tests and Quizzes: As per the Student Handbook, **tests and quizzes must be taken on the day assigned at the designated time. In the event the student will miss an exam, they must call or e-mail the instructor PRIOR to the designated test start time. Phone messages are acceptable.** IF THE STUDENT DOES NOT CALL OR E-MAIL PRIOR TO THE TEST START TIME, the student must take the test with an automatic 50% deduction.

All missed tests and quizzes are to be made up by or on the 1st class day the student returns. It is the student's responsibility to initiate making up tests and quizzes. If they fail to do so, they forfeit the opportunity to take the test or quiz.

Attendance: As per the Student Handbook, **attendance in class is extremely important. You are forming work habits and a reputation that will follow you into the professional environment. You are expected to be present for all courses and participate in planned activities. It is the responsibility of the student to obtain notes, handouts or assignments given on any missed day. Students who have absences in excess of 20% of total attendance time in each course will be terminated from the program.**

Students must be in attendance for the ENTIRE class AS DETERMINED BY THE INSTRUCTOR. If the student is not there for the entire class (comes late, leaves early) it will be counted as an absence.

Student Responsibilities: Students are expected to complete reading assignments prior to scheduled class/lab times. Students should have completed worksheets, etc. and be prepared to discuss the material knowledgeably. If the student is having difficulty in the course, it is the student's responsibility to make arrangements to take with the Instructor. Students are expected to be self-directed and motivated in identifying their learning needs associated with the course content

Assignments: Each assignment has a specific due date as noted on the course schedule. No late assignments will be accepted.

Assignment descriptions are found on Canvas.

Incomplete: Students must complete all requirements to remain in the program.

Class Procedure or Format:

This course will be covered through PowerPoint presentations, worksheets, group discussion, continuing education articles, and performance of patient care skills.

Tests:

Pharmacology	15%
Principles of Drug Administration	15%
Contrast Media	20%
Ethics and Law	20%
Geriatrics Test	15%

Assignments:

Read Article "Pharmacology in Radiology"	
CE Quiz	5%
Read Article "Adverse Effects of Iodine-derived Intravenous Radiopaque Contrast Media"	
CE Quiz	5%
Read Article "Medical Ethics and Law in Radiologic Technology:"	
CE Quiz	5%

Grading:

95-100	A	75-77	C
90-94	A-	71-74	C-
87-89	B+	67-70	D+
83-86	B	64-66	D
80-82	B-	Below 64	E
78-79	C+		

Wireless Devices in the Classroom:

The advent of technology use in the classroom as an instructional tool has caused both opportunities and distractions. The expectations for this course are that you are engaged and present during class time, which means that you will be free from technological distractions. Research has shown that these distractions cause individual inattentiveness and can make it difficult for other to stay focused on immediate discussions. The following policies are in effect during our time together:

1. Cell phones, iPods/Pads, pages, High-Resolution DVR Spy pens with webcam, microphones, recorders or any other wireless devices (excluding ADA authorized devices) that may distract from the class are to be silenced before entering the classroom and may not be on the desk or person during class.
2. Wireless devices can be checked during class breaks outside the classroom.
3. If you are discovered reading/texting messages during class, you will be asked to leave the class and will be counted as absent for that class session.
4. You are expected to engage in discussion for the class. If you are discovered engaging in reading emails, surfing the web and engaging in other computer activities not directly related

to class, you will be asked to leave the class and will be counted as absent for that class session.

5. You may not record or publish information from the class without written authorization from the instructor. If used without written authorization, you will have violated "Privacy/Intellectual Property Rights".

Emergency Evacuation Procedures

In case of an emergency situation, elevators should not be used as emergency exits. All class members should exit through the nearest doors on the west side of the building, then proceed toward the round-about on the northeast side of the building. We will then verify that all students are accounted for and unharmed. Please inform your instructor if you require assistance or accommodation during an evacuation. The instructor will identify several students in the class that are willing to provide assistance. If you have a disability, please notify your instructor and fill out an Evacuation Information Form

The SLCC Department of Public Safety is using an app called the Crisis Manager to inform students and staff about Emergency Procedures. The app allows SLCC to instantly update these procedures. To download this app go to the App Store or Google Play Store, type **SchoolDude CrisisManager** in the search box and click "Get" or "Install. For questions regarding the Emergency Procedures or downloading the app to your device, please contact

ACADEMIC GRIEVANCE POLICY

In accordance with the Salt Lake Community College Student Code of Conduct, http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf, the grievance policy for students with reference to academics can be found in Section III. Students are encouraged to seek resolution with the instructor(s) whenever possible.

It is the goal of the School of Health Sciences to be forthright and consistent with specific academic policies throughout divisions and programs. This policy singularly addresses academic issues and the general principles for disciplinary actions as noted in the Student Code of Conduct Section III. It should be noted it is up to the faculty's discretion to provide warning (verbal or written), suspension, or dismissal based upon program policy and severity of the issue at hand. It is realized in some health sciences programs a failing grade, as stated in the syllabus and/or policy manual, may result in program dismissal.

STEP ONE: A student has the right, as per college policy, to grieve a grade, warning (verbal or written), suspension, or dismissal received within a program of study. A student, as per policy, must make an appointment to meet with the instructor of the class. A meeting, for anything other than a final grade, should be made within ten (10) days of the incident. Final grade disputes require a meeting

within 30 days of the student receiving the grade. Every effort should be made to find resolution and provide evidence from both parties with respect to the grade issued.

STEP TWO: If a resolution cannot be made, the student must request in writing five (5) business days from the date of meeting with the faculty, a committee review of the grievance to the Associate Dean of the specific division. The grievance will be reviewed by a committee consisting of three (3) to five (5) faculty outside the program in which the student is enrolled. This will include the following members, the Associate Dean and two to four faculty members outside the discipline. The Associate Dean will serve as committee chair. One faculty and the program coordinator of the program involved in the grievance can attend the procedure, as can the student with one representative. Each of these parties will only be allowed to present evidence to the committee and not vote on the issue in question. Legal representation is allowed by either party. The proceedings will be recorded for accuracy. Upon completion of the proceedings, the committee **ONLY** will vote on the issue(s) noted in the student's grievance. A formal letter will be provided by the committee chair within ten (10) business days of the end of the proceeding with the committee's decision regarding the issue.

STEP THREE: If the student is not satisfied with the outcome, they may appeal to the Academic Dean of the School of Health Sciences. This must be done in writing within five days of receiving the formal letter from the grievance committee chair. The Dean will review the appeal, all evidence, and render a decision to the student within ten (10) days of receiving the formal letter from the student. The decision of the Dean of the School of Health Sciences is final and cannot be appealed.