This is a SouthArk Master Syllabus. The course syllabus distributed by the instructor may include additional requirements, must be followed by the student in the given term, and is considered to supersede the Master Syllabus.

Course Number
RADT2301

Course Title
Quality Assurance

Course Description
Methods and procedures in radiographic quality control with emphasis on the evaluation of data from quality assurance testing procedures.

College Mission
South Arkansas Community College promotes excellence in learning, teaching, and service; provides lifelong educational opportunities; and serves as a cultural, intellectual, and economic resource for the community.

College Wide Student Learner Outcomes
☒ Critical Thinking ☒ Responsibility ☒ Communication

ACTS Course ☐ Program Course ☒ Radiologic Technology

ACTS Outcomes

Program Outcomes
1. Students will be clinically competent.
2. Students will demonstrate professionalism.
3. Students will demonstrate effective communication skills.
4. Students will use critical thinking skills.
5. The program will graduate entry-level technologists.

Course Outcomes

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<tr>
<th>CLO #</th>
<th>Course Outcomes</th>
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<th>Program Outcomes</th>
<th>Critical Thinking</th>
<th>Communication Responsibility</th>
<th>Assessment</th>
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<tr>
<td>CLO 1</td>
<td>Students will adhere to attendance policy. (2-1)</td>
<td>2</td>
<td>R5</td>
<td>Documented Attendance record.</td>
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<tr>
<td>CLO 2</td>
<td>Students will use a large variety of terminology/ language and will discuss various Governmental regulations/ guidelines which are related to Quality Assurance/ Control within the Radiography profession. (3-1)</td>
<td>1-20</td>
<td>3</td>
<td>C4</td>
<td>Classroom lectures/ Test 1</td>
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<tr>
<td>CLO 3</td>
<td>Students will discuss the role and responsibilities of Radiographers as they relate to Quality Assurance/ Control within the Radiography profession. (3-1)</td>
<td>17, 18, 20</td>
<td>3</td>
<td>C4</td>
<td>R4</td>
<td>Laboratory experiments/ 9-penny test Sensitometric Strip assignment</td>
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<tr>
<td>CLO 4</td>
<td>Students will continue to expand discussion of the principles and purposes of Radiation protection and Radiation monitoring as they relate to the Quality Assurance/ Control of any Medical Imaging setting. (4-3)</td>
<td>2, 17, 19, 20</td>
<td>4</td>
<td>CT5</td>
<td>R5</td>
<td>Classroom lectures/ Test 2</td>
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Unit Outcomes/ Competencies
1. Differentiate between quality improvement/management, quality assurance and quality control.
2. List the benefits of a quality management program to the patient and to the department.
3. Discuss the proper test equipment/procedures for evaluating the operation of an x-ray generator.
4. Evaluate the results of basic QC tests.
5. Describe the effects of storage on image quality.
6. Discuss safelight illumination appropriate for specific image receptor systems.
7. Discuss darkroom related OSHA standards for health & safety. Discuss the possible causes & health implications of “darkroom chemical sensitivity”. Identify procedures that ensure log screen life, devoid of artifacts and distortion.
8. Analyze the effects of processing on image quality.
9. Identify the purpose of a daily Quality Control program for processors.
10. Identify types of image artifacts and analyze them to determine the cause.
11. Identify common Silver Recovery methods.
12. Discuss the elements of Quality Control.
13. Discuss the equipment involved in Quality Control.
14. Discuss the importance of continuing education in regard to the rapid advancement of technology.
15. Identify & discuss Federal & State agencies involved with quality assurance aspects of radiographic systems.
16. Identify & discuss Federal & State agency regulations, inspections, and enforcement as they relate to quality assurance.
17. Discuss the personnel involved (technologists, physicists, etc.) in a quality assurance program and discuss responsibilities of each to the effective operation of the program.
18. Discuss aspects of preventative and corrective maintenance for components of the radiography system.
19. Define reject analysis and describe objectives of a reject analysis program. Perform a reject analysis and analyze the results.
20. Perform and/or explain QC tests and equipment maintenance test(s) presented in this course and listed below with 80% accuracy.

Assessment Description(s)
Students will be tested over lecture and Powerpoint presentation content. Students will conduct Quality Control testing in the simulation laboratory in order to utilize and better understand the various Quality Control testing tools. Students will complete a Sensitometric strip after classroom lecture over Sensitometry and Processor Quality Control.

Materials and Technological Requirements
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Class Attendance Policy
Students are expected to attend all classes in which they are enrolled. If a student is absent from a class session, it is the student’s responsibility to make arrangements to complete or make up any work missed. No make-up work for missed classes will be allowed without the approval of the instructor. Students who enroll late must assume all responsibility for work missed. Classes not attended as a result of late enrollment may be counted toward excessive absences. Students not attending the entire class period may be counted absent for that period. An instructor may drop students with a grade of “WE” if students have been absent for an excessive number of days. Warning letters will be sent to the students advising them of the consequences of nonattendance and urging them to contact their instructors immediately. Excessive absences are defined as follows:

Regular Semester
Courses which meet once a week ................................................................. 2 absences
Courses that meet twice per week ............................................................... 3 absences
Courses that meet four times per week ..................................................... 5 absences

Summer Session
Courses that meet four times per week in a five week session ...................... 3 absences
Courses which meet two evenings per week in a 10 week session ............... 3 absences

Students enrolled in special programs or individualized instruction should contact their program director/instructor regarding specific attendance requirements for the program/course. Some of the selective-admission, health-science programs have specific criteria regarding attendance. Students are encouraged to refer to program policies in these matters.

Jury Duty/Military/Official School Function
Scheduled absences are those that occur due to college-related activities or as a result of summons to jury duty or military duty. Classes missed as a result of scheduled absences will not be counted as excessive absences if the
instructor is notified and provided documentation prior to the absence(s). Make-up work for scheduled absences will be at the discretion of the instructor.

In all instances, documentation must be provided to the instructor within 24 hours of receipt. Documentation should come from an appropriate party on letterhead or other official stationery with a signature and contact information. Documentation should list the corresponding dates of the leave.

Medical leave
For medical-related absences, documentation must include written notice from the treating medical professional documenting time needed off related to medical reasons and time student may resume classes. The medical reason does not need to be listed on the documentation; the documentation must include only that there is a medical reason, the amount of time the student needs to be absent, and the time the student should be able to return to classes. Students who elect to work at home while on excused leave must meet with their instructors to make arrangements to do so. Working on coursework while on medical leave is not a requirement but can be requested by students. If students request that they be allowed to work at home while on an excused leave, the instructor will make every reasonable effort to ensure that the student is able to do so.

For students who have a medical condition necessitating time off or accommodation:

1) They may work at home on assignments if they choose to if on medical leave approved by a medical professional
2) Receive appropriate accommodations related to coursework (i.e., excused from labs with potentially harmful chemicals, have a larger desk, etc.)
3) Resume their studies where they left off once they return to classes
4) Be allowed to make up any missed work related to medical leave
5) Receive incompletes on their transcripts until coursework is completed, according to the incomplete grade contract.
6) Be given a reasonable time frame in which to complete missed coursework

Academic Honesty Policy
Students enrolled at South Arkansas Community College are expected at all times to uphold standards of integrity. Students are expected to perform honestly and to work in every way possible to eliminate academic dishonesty. Academic dishonesty includes cheating and plagiarism, which are defined as follows:

• Cheating is an attempt to deceive the instructor in his/her effort to evaluate fairly an academic exercise. Cheating includes copying another student’s homework, class work, or required project (in whole or in part) and/or presenting another’s work as the student’s own. Cheating also includes giving, receiving, offering, and/or soliciting information on a quiz, test, or examination.

• Plagiarism is the copying of any published work such as books, magazines, audiovisual programs, electronic media, and films or copying the theme or manuscript of another student. It is plagiarism when one uses direct quotations without proper credit or when one uses the ideas of another without giving proper credit. When three or more consecutive words are borrowed, the borrowing should be recognized by the use of quotation marks and proper parenthetical and bibliographic notations.

If, upon investigation, the instructor determines that the student is guilty of cheating or plagiarism, the following penalties will apply:

• The student will receive a penalty of no less than a zero on the work in question.
• The instructor will submit a written report of the incident to the Vice President for Learning
• The Vice President for Learning will determine whether further disciplinary action will be taken.
• All decisions may be appealed for review through the college’s Academic Appeals procedure.

Equal Opportunity-Affirmative Action Statement
South Arkansas Community College does not discriminate on the basis of age, race, color, creed, gender, religion, marital status, veteran’s status, national origin, disability, or sexual orientation in making decisions regarding employment, student admission, or other functions, operations, or activities.

Library Services
Library Homepage: http://southark.libguides.com/homepage Library Contact: LibraryStaff@southark.edu or 870.864.7115

Procedures to Accommodate Students with Disabilities:
If you need reasonable accommodations because of a disability, please report this to the Vice President of Student Services with proper documentation. VPSS Contact: 870.875.7262
The Early Alert System
In an effort to ensure student retention and success, South Arkansas Community College employs an Early Alert System to identify and support at-risk students as soon as possible in a given semester. The intent of Early Alert is to provide this assistance while there is still time to address behaviors or issues that have the potential of preventing students from completing their courses and degree plans. Students referred through the Early Alert System will be required to work on a corrective action plan with their student advising coach and to include attendance accountability and mandatory academic tutoring either in the academic division or in the Testing and Learning Center (TLC).

Once the Student Advising Coach has met with the referred student, and again when the student has met the prescribed corrective actions, the coach will update the Early Alert System so that the instructor is kept informed of the progress in resolving issues.

Behavioral Review Team
At South Arkansas Community College (SouthArk), we are committed to proactive leadership in student wellbeing and campus safety. By focusing on prevention and early intervention with campus situations that involve any person experiencing distress or engaging in harmful or disruptive behaviors, the BRT will serve as the coordinating hub of existing resources to develop intervention and support strategies and offer case management. Students, faculty, staff, and campus guests are encouraged to report any person on campus who is a concern. BRT Contact: 870.875.7262 BRT@southark.edu

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