ARIZONA WESTERN COLLEGE
SYLLABUS

RAD 207A RADIATION BIOLOGY AND PROTECTION
Credit Hours: 3 Lec 3

PREREQUISITE: approved medical and law enforcement personnel

COURSE DESCRIPTION
A Study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

1. COURSE GOAL
   Identify and evaluate radiation exposure and implement methods for protecting personnel and patients.

2. OUTCOMES
   Upon satisfactory completion of this course, students will be able to:
   - 2.1 describe the biophysical mechanism of radiation damage and the somatic and genetic effects of radiation exposure on humans.
   - 2.2 state typical dose ranges for routine radiographic procedures.
   - 2.3 explain basic methods and instruments for radiation monitoring, detection and measurement.
   - 2.4 apply appropriate radiation protection practices.

3. METHODS OF INSTRUCTION
   - 3.1 Online educational modules
   - 3.2 Case studies
   - 3.3 Group discussions

4. LEARNING ACTIVITIES
   - 4.1 Active internet research
   - 4.2 Incident senarios
   - 4.3 Presentations
   - 4.4 Team activities

5. EVALUATION
   - 5.1 Quizzes/exams
   - 5.2 Assignments
   - 5.3 Participation

6. STUDENT RESPONSIBILITIES
   - 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
   - 6.2 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
   - 6.3 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS

front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.

6.4 Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized "crib notes", plagiarism, stealing tests, or forging an instructor's signature—will be subject to the procedures and consequences outlined in AWC's Student Code of Conduct.

6.5 Texts and Notebooks: Students are required to obtain the class materials for the course.

6.6 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester.

Students who have enrolled but have never attended class may be issued a "No Show" (NS) grade by the professor or instructor and receive a final grade of "NS" on their official academic record. An NS grade may result in a student losing their federal financial aid.

For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computer-assisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course