Course Assessment Report - 4 Column

Great Basin College

Courses (HHS) - Radiology Technology

Course Outcomes 1 and ctu.unitid = 727	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
RAD 238 - Radiation Safety/Protect - Describe the ALARA concept - Describe the ALARA concept. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Final Examination Outline: Section A. Radiation Protection #2 Minimizing Patient Exposure E. Exposure Reduction 6. ALARA **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly	08/07/2015 - Benchmark:80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.
RAD 238 - Radiation Safety/Protect - Distinguish between effects of radiation exposure - Distinguish between somatic, genetic, stochastic and non-stochastic effects of radiation exposure **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Final Examination Outline: Section A. Radiation Protection #1 Biological Aspects of Radiation B. Somatic Effects E. Genetic Impact Chapter 7 Quiz-Question 10 Which of the following are classified as early (acute) deterministic somatic effects of ionizing radiation? **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly 80% of the students will get this question correct.	08/07/2015 - Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. Benchmark: 80% of the students will get this question correct. Outcome: 100% of the students answered this question correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.
RAD 238 - Radiation Safety/Protect - Define radiation and radioactivity units of measurement. - Define radiation and radioactivity units of measurement. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Chapter 3 Quiz-Question 15 Of the following equivalents, which equals 1 rad? 1. 100 erg/g 2. 1/100 J/kg 3. 0.01 Gy Final Examination Outline: Section A. Radiation Protection #4 Radiation Exposure and Monitoring A. Units of Measurements 1. Absorbed dose 2. Dose equivalent 3. exposure **Assessment Measure Category:**	08/07/2015 - Benchmark: 80% of the students will get this question correct. Outcome: 80% of the students answered this question correctly. (1 missed this question out of 5 students) Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored. The student who missed the quiz question, completed the final outline with 100%.

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	Exam **Criterion:** 80% of the students will get this question correct. 80% of the students will complete the required content of the outline correctly		
RAD 238 - Radiation Safety/Protect - Identify dose limits for occupational and non-occupational radiation exposure - Identify dose limits for occupational and non-occupational radiation exposure **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Final Examination Specification: Section A-Radiation Protection #4 Radiation Exposure and Monitoring C. NCRP Recommendations for Personnel Monitoring(NCRP #116) 1. Occupational exposure 2. Public exposure 3. Embryo/fetus exposure 4. ALARA and dose equivalent limits 5. Evaluation and maintenance of personnel dosimetry records. **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly	08/07/2015 - Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.
RAD 238 - Radiation Safety/Protect - Identify ionizing radiation sources and equipment design for radiation protection - Identify ionizing radiation sources and equipment design for radiation protection. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Final Examination Specification: Section A-Radiation Protection #2 Minimizing Patient Exposure A. Exposure Factors B. Shielding C. Beam Restriction D. Filtration E. Exposure Reduction F. Image Receptors G. Grids H. Fluoroscopy **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly	08/07/2015 - Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.
RAD 238 - Radiation Safety/Protect - Identify areas of possible radiation exposure & list acceptable exposure levels. - Identify areas of possible radiation exposure and be able to list acceptable exposure levels. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015	**Assessment Measure:** Final Examination Specification: Section A-Radiation Protection #3 Personnel Protection A. Sources of Radiation Exposure B. Basic Methods of Protection Chapter 10 Quiz: Question 7 When performing a mobile fluoroscopic procedure, to reduce the radiation exposure to	08/07/2015 - Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. Benchmark: 80% of the students will get this question correct. Outcome: 100% of the students answered this question correctly.	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.

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Course Outcome Status: Active	the patient, the radiographer must use a minimal source to skin distance of _____? **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly 80% of the students will get this question correct.	**Criterion Met:** Yes **Reporting Period:** 2014-2015	
RAD 238 - Radiation Safety/Protect - Understand federal regulations governing radiation protection practices - Understand federal regulations governing radiation protection practices. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Final Examination Specification: Section A-Radiation Protection 4. Radiation Exposure and Monitoring C. NCRP Recommendations for Personnel Monitoring. Chapter 10 Quiz: Question 9 Current federal standards limit entrance skin exposure rates of general-purpose intensified fluoroscopic units to a maximum of _____R/min. **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly 80% of the students will complete the required content of the outline correctly	08/07/2015 - Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.
RAD 238 - Radiation Safety/Protect - Identify cell structure and effects of radiation on the cells - Identify cell structure and effects of radiation on the cells. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Chapter 1 Quiz: Question 1 Some consequences of ionization in human cells include: 1. creation of unstable atoms 2. production of free electrons 3. creation of reactive free radicals capable of producing substances poisonous to the cell. Final Examination Specification: Section A-Radiation Protection #1 Biological Aspects of Radiation A. Radiosensitivity 1. Dose-response relationships. 2. Relative tissue radiosensitivities 3. Cell survival and recovery 4. Oxygen effect **Assessment Measure Category:** Exam **Criterion:**	08/07/2015 - Benchmark: 80% of the students will get this question correct. Outcome: 100% of the students answered this question correctly. Benchmark: 80% of the students will complete the required content of the outline correctly 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	08/07/2015 - The benchmark has been achieved and this will continued to be monitored.

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	80% of the students will get this question correct. 80% of the students will complete the required content of the outline correctly		
RAD 238 - Radiation Safety/Protect - Describe and identify personnel monitoring devices, including usage - Describe and identify personnel monitoring devices, including usage. **Next Assessment:** 2018-2019 **Start Date:** 08/07/2015 **Course Outcome Status:** Active	**Assessment Measure:** Final Examination Specification: Section A-Radiation Protection #4 Radiation Exposure and Monitoring B. Dosimeters 1. Types 2. Proper use Chapter 4 Quiz: Question 3 What do film badges, optically stimulated luminescence dosimeters, pocket ionization chambers and TLDs have in common? **Assessment Measure Category:** Exam **Criterion:** 80% of the students will complete the required content of the outline correctly 80% of the students will complete the required content of the outline correctly	08/07/2015 - Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. Benchmark: 80% of the students will complete the required content of the outline correctly Outcome: 100% of the students filled out the outline correctly. **Criterion Met:** Yes **Reporting Period:** 2014-2015	09/29/2015 - All of these outcomes are measured in the final examination which is an outline of the content specifications for the radiography examination. The students must fill in the outline from the American Registry of Radiologic Technology with details they have learned from this course. The outline is graded and then the student uses this as a study guide for registry review. I have added the specific area for each outcome. This outline can be found out the following website: https://www.arrt.org/pdfs/Disciplines/Content-Specification/RAD-Content-Specification.pdf 5 students took this course in Fall of 2014. They are second year students. Their grades were: 2 As 2 A- 1 B 08/07/2015 - The benchmark has been achieved and this will continued to be monitored.