

# DATA SUMMARY

## CSUN RADIOLOGIC TECHNOLOGY OUTCOME ASSESSMENT

**January 2011 to December 2011**

**Goal 1.** Graduate students that demonstrate a mastery of basic Radiographic Medical Imaging skills and advanced medical imaging skills in MRI, CT and Interventional Radiography.

Outcomes Measured	Assessment Tool(s)	Benchmark	RT Program Assessment Data
Graduates will produce diagnostic quality Radiographic, CT, MRI and Angiographic Images.	Clinical Competency Assessment form (CCA) and exit interview questionnaire are used to assess the <b>production of qualitative medical images.</b>		
	<ul style="list-style-type: none"> <li>CCA-Section II (Technical Requirements &amp; positioning) Assessment Items-1-15 *(1.i.1 thru 1.i.13)</li> </ul>	Section II $\geq$ 24 pts. for Juniors Section II $\geq$ 27 pts. Seniors & GS	<u>Class averages:</u> Junior 45.3 Senior 45.2 Gr. Sr. 48.4 <b>**Benchmark met**</b>
	<ul style="list-style-type: none"> <li>CCA-Section III (Film Critique) Items 1-3. *(1.i.1 thru 1.i.13)</li> </ul>	Section III $\geq$ 5 pts. for Juniors Section III $\geq$ 6 pts. for Seniors & GS	<u>Class averages:</u> Junior 9.3 Senior 9.1 Gr. Sr. 9.9 <b>**Benchmark met**</b>
	<ul style="list-style-type: none"> <li>Exit Interview Questionnaire Item #13. (see 1.s)</li> </ul>	85% graduates respond that they are prepared in general radiography <b>[CLASS OF 2011]</b>	Q#13. 100% <b>**Benchmark met**</b>
	<ul style="list-style-type: none"> <li>Exit Interview Questionnaire Item #14. (see 1.s)</li> </ul>	75% graduates respond that they are prepared in advanced imaging areas of CT, MR and Angiography <b>[CLASS OF 2011]</b>	Q#14. 90% <b>**Benchmark met**</b>

Outcomes Measured	Assessment Tool(s)	Benchmark	RT Program Assessment Data
Graduates will provide appropriate patient care during imaging procedures.	<p>Clinical Competency Assessment form (CCA) is used to assess the student's ability to provide appropriate <b>patient care</b> during imaging procedures.</p> <p>CCA-Section I (Patient care and Communication) Items 1 - 10 *(1.i.1 thru 1.i.13)</p>	<p>Section I <math>\geq</math> 16 pts. for Juniors Section I <math>\geq</math> 18 pts. for Seniors &amp; GS</p>	<p><u>Class averages:</u>  <b>Junior</b> 30.1  <b>Senior</b> 29.8  <b>Gr. Sr.</b> 32.2  <b>**Benchmark met**</b></p>
Graduates provide appropriate radiation protection during imaging procedures.	<p>Clinical Competency Assessment form (CCA) is used to assess the student's ability to provide appropriate <b>radiation protection</b> during imaging procedures.</p> <p>CCA-Section IV (Radiation Protection) Items 1 - 4. *(1.i.1 thru 1.i.13)</p>	<p>Section IV <math>\geq</math> 7 pts. for Juniors Section IV <math>\geq</math> 8 pts. for Seniors &amp; GS</p>	<p><u>Class averages:</u>  <b>Junior</b> 11.9  <b>Senior</b> 12.2  <b>Gr. Sr.</b> 13.0  <b>**Benchmark met**</b></p>

**Goal 2.** Graduate students that demonstrate effective communication, problem solving/critical thinking skills that provide ethical compassionate patient care.

Outcomes Measured	Assessment Tool(s)	Benchmark	RT Program Assessment Data
Graduates will communicate effectively with patients in an age appropriate and cultural diverse manner.	<p>Clinical Competency Assessment form (CCA), Affective Assessment form, and the exit interview questionnaire are used to assess the student's ability to <b>communicate</b> with patients in an age appropriate manner.</p> <ul style="list-style-type: none"> <li>CCA-Section I (<i>Patient care and Communication</i>) Items 1 – 1 *(1.i.1 thru 1.i.13)</li> <li>Exit interview questionnaire, Item # 15. (see 1.s)</li> <li>Affective Assessment Items # 14,17,18,19,. (see 4.i)</li> </ul>	<p>Section I <math>\geq</math> 16 pts. for Juniors Section I <math>\geq</math> 18 pts. for Seniors &amp; GS</p> <p>85% graduates respond that they are skilled in their ability to communicate with patients <b>[CLASS OF 2011]</b></p> <p>Items 14, 17, 18, 19 <math>\geq</math> 9 pts. for Juniors Items 14, 17, 18,19, <math>\geq</math> 11 pts. for Senior &amp; GS</p>	<p><u>Class averages:</u> Junior 30.1 Senior 29.8 Gr. Sr. 32.2 <b>**Benchmark met**</b></p> <p>100% <b>**Benchmark met**</b></p> <p><u>Class averages:</u> Junior 11.1 Senior 11.1 Gr. Sr. 11.5 <b>**Benchmark met**</b></p>
Graduates will demonstrate effective professional communication.	<p>HSCI 487: Professional Development of the Radiographer.</p> <p><i>Professional (PowerPoint) presentation to the class on a topic related to Radiologic Sciences.</i></p>	<p>80% total score on assessment* <b>[CLASS OF 2011]</b> Senior Yr., Spring Semester</p> <p><i>*changed 75% to 80% at 2010 Advisory Mtg</i></p>	<p>93 % <b>**Benchmark met**</b></p>

Outcomes Measured	Assessment Tool(s)	Benchmark	RT Program Assessment Data
Graduates will have problem solving /critical thinking skills appropriate to medical imaging.	HSCI 486A: Seminar Advances in Radiographic Sciences  <i>Each student independently develops a topic related to Radiologic Technology for presentation to the program in either a <u>scientific display</u> or <u>paper format</u>.</i>	80% total score on assessment <b>[CLASS OF 2012]</b>	81% <b>**Benchmark met**</b>
Graduates will have Critical thinking/ problem solving evaluation	<ul style="list-style-type: none"> <li>HSCI 285: RAP I <i>Periodic assessments which require analysis of Radiographic Quality.</i> (see 4.aa)</li> <li>HSCI 281: Clinical Education II <i>Critical Thinking Portfolio assignment.</i> (see 4.n)</li> </ul>	<p>80% successfully analyze Radiographic Quality of images presented <b>[CLASS OF 2013]</b> Junior Yr., Fall Semester</p> <p>80% on portfolio assignment <b>[CLASS OF 2012]</b> Junior Yr., Spring Semester</p>	<p>91% <b>**Benchmark met**</b></p> <p>97% <b>**Benchmark met**</b></p>

**Goal 3.** Graduate students that value the importance of professional development through life-long learning for improved patient care and medical imaging.

Outcomes Measured	Assessment Tool(s)	Benchmark	RT/Program Assessment Data
Students in the professional program participate in at least one professional conference.	Seminar attendance records	50% of students will participate*  *Changed from 75% to 50% by program faculty on outcome assessment plan mtg	64%  <b>**Benchmark met**</b>  -Advisory committee wants to monitor and not change benchmark at this time  -Economic factors affect student participation
Graduates will pass the senior level (HSCI 487) Professional Development Course which includes: ethics, professional organizations and educational methodologies.	Course grade	100% pass with a C or better <b>[CLASS OF 2011]</b>	100% <b>**Benchmark met**<sup>1</sup></b>
Students will complete all program requirements within the 150% of the professional program length.	Student transcripts	80% of the students starting the program will complete the program <b>[CLASS OF 2011]</b>	96% <b>**Benchmark met**<sup>1</sup></b>

**Goal 4.** *Maintain program effectiveness through continual assessment.*

Outcomes Measured	Assessment Tool(s)	Benchmark	RT Program Assessment Data
Graduates will pass the national ARRT exam.	ARRT exam report	100% pass rate <b>[CLASS OF 2011]</b>	100% <b>**Benchmark met**</b>
Graduates will have averaged a score or 85% per class for the national ARRT exam.	ARRT exam report	85% average per class <b>[CLASS OF 2011]</b>	89% <b>**Benchmark met**</b>
Graduate's employers will report that they were ready to perform in the medical imaging environment after one year of employment.	One-year employer assessment tool <ul style="list-style-type: none"> <li>Tool has 10 questions and a Likert Scale of 10</li> </ul>	<ul style="list-style-type: none"> <li>8 out of 10</li> </ul> <b>[CLASS OF 2010]</b>	8.5 Likert <b>**Benchmark met**</b>
Graduates will have ≥75% employment rate within 6 months of graduation.	One-year employer assessment tool	75% <b>[CLASS OF 2010]</b>	50% <b>*Benchmark not met*</b>
Graduates are employed in advanced imaging positions.	One-year post graduate survey	Three months postgraduate ≥ 35% advanced imaging employment <b>[CLASS OF 2010]</b>	22% <b>*Benchmark not met*</b>
Graduate Satisfaction	Exit interview questionnaire, Item # 15.	90% of graduates satisfied with education <b>[CLASS OF 2011]</b>	95% <b>**Benchmark met**</b>