

2012-2013 Annual Program Assessment Report

Please submit report to your department chair or program coordinator, the Associate Dean of your College and the assessment office by Monday, September 30, 2013. You may submit a separate report for each program which conducted assessment activities.

College: HHD

Department: Health Sciences

Program: BS Radiologic Sciences

Assessment liaison: Jenny Yi

1. Overview of Annual Assessment Project(s). Provide a brief overview of this year's assessment plan and process.

The RS program has a multi-faceted assessment plan that was developed and is revised annually to meet the requirements of national accreditation. See attachment #1: 2012 CSUN Radiologic Technology Outcome Assessment Plan.

2. Assessment Buy-In. Describe how your chair and faculty were involved in assessment related activities. Did department meetings include discussion of student learning assessment in a manner that included the department faculty as a whole?

The RS program faculty and Program Director as a whole meets once a year to review, revise, and update the outcome assessment plan. Data is collected and summarized then the assessment summary is presented to the advisory committee, which includes the communities of interest. Feedback from the advisory committee is incorporated into the subsequent year's assessment plan.

3. Student Learning Outcome Assessment Project. Answer items a-f for each SLO assessed this year. If you assessed an additional SLO, copy and paste items a-f below, BEFORE you answer them here, to provide additional reporting space.

3a. Which Student Learning Outcome was measured this year?

All items where assessed. See attachment #2: Data Summary – CSUN Radiologic Technology outcome assessment.

3b. Does this learning outcome align with one or more of the university's Big 5 Competencies? (Delete any which do not apply)

- Critical Thinking
- Oral Communication
- Written Communication

3c. Does this learning outcome align with University's commitment to supporting diversity through the cultivation and exchange of a wide variety of ideas and points of view? In what ways did the assessed SLO incorporate diverse perspectives related to race, ethnic/cultural identity/cultural orientations, religion, sexual orientation, gender/gender identity, disability, socio-economic status, veteran status, national origin, age, language, and employment rank?

Affective assessment is used to measure the University's commitment to supporting diversity. Area's evaluated are treating the patient without regard for race, ethnicity/cultural identity/cultural orientations, religion, sexual orientation, gender/gender identity, disability, socio-economic status, and ethical treatment of patients. See attached #3: Affective Assessment.

3d. What direct and/or indirect instrument(s) were used to measure this SLO?

See attachment #1: 2012 CSUN Radiologic Technology Outcome Assessment Plan.

3e. Describe the assessment design methodology: For example, was this SLO assessed longitudinally (same students at different points) or was a cross-sectional comparison used (Comparing freshmen with seniors)? If so, describe the assessment points used.

Compare growth from Junior to Senior year for each cohort.

3f. Assessment Results & Analysis of this SLO: Provide a summary of how the results were analyzed and highlight findings from the collected evidence.

See attachment #2: Data Summary – CSUN Radiologic Technology outcome assessment for data summary analysis report.

3g. Use of Assessment Results of this SLO: Describe how assessment results were used to improve student learning. Were assessment results from previous years or from this year used to make program changes in this reporting year? (Possible changes include: changes to course content/topics covered, changes to course sequence, additions/deletions of courses in program, changes in pedagogy, changes to student advisement, changes to student support services, revisions to program SLOs, new or revised assessment instruments, other academic programmatic changes, and changes to the assessment plan.)

Assessment of exit interviews response #13 asked if students were prepared for general radiography. Students identified weakness in exposure techniques which resulted in a change in the clinical writing project to include exposure techniques and critical thinking analysis of various exposures.

4. Assessment of Previous Changes: Present documentation that demonstrates how the previous changes in the program resulted in improved student learning.

None where changed last year.

5. Changes to SLOs? Please attach an updated course alignment matrix if any changes were made. (Refer to the Curriculum Alignment Matrix Template, http://www.csun.edu/assessment/forms_guides.html.)

N/A

6. Assessment Plan: Evaluate the effectiveness of your 5 year assessment plan. How well did it inform and guide your assessment work this academic year? What process is used to develop/update the 5 year assessment plan? Please attach an updated 5 year assessment plan for 2013-2018. (Refer to Five Year Planning Template, plan B or C, http://www.csun.edu/assessment/forms_guides.html.)

National accreditation requires annual assessment plan review. The program as a whole reviews and presents the plan to the advisory committee for feedback. Any recommendations are taken back to the faculty for implementation. See #2

7. Has someone in your program completed, submitted or published a manuscript which uses or describes assessment activities in your program? Please provide citation or discuss.

No

8. Other information, assessment or reflective activities or processes not captured above.

No

2012 CSUN RADIOLOGIC SCIENCES OUTCOME ASSESSMENT PLAN

MISSION STATEMENT

The mission of the California State University, Northridge baccalaureate Radiologic Sciences Program is to provide the community with a competent, professional Radiologic Technologist who possesses additional advanced medical imaging skills in MRI, CT and Interventional Radiography that meet the needs of the medical imaging community through a highly integrated and advanced level clinical and academic curriculum.

PROGRAM STUDENT LEARNING OUTCOMES (GOALS)

The Radiologic Sciences Program at California State University, Northridge shall:

1. graduate students that demonstrate a mastery of basic and advanced medical imaging skills in MRI, CT and Interventional Radiography, with emphasis on radiation/patient safety.
2. graduate students that demonstrate effective communication, problem solving/critical thinking skills that provide ethical compassionate patient care.
3. graduate students that value the importance of professional development through life-long learning for improved patient care and medical imaging.
4. maintain program effectiveness through continual assessment.

SLO 1. Graduate students that demonstrate a mastery of basic and advanced medical imaging skills in MRI, CT and Interventional Radiography, with emphasis on radiation/patient safety.

Outcomes Measured	Assessment Tool(s)	Timetable	Benchmark	Person / Group Responsible
Graduates will produce diagnostic quality Radiographic, CT, MRI and Interventional Radiography Images.	Clinical Competency Assessment form (CCA) is used to assess the students in obtaining diagnostic quality radiographic, CT, MR and Interventional Radiography images. <i>(The CCA is used for each student to attain competency for procedures and to attain proficiency through re-competency assessment beginning in their senior year and for terminal competency assessment in their post grad clinical (PG) education. The following components of the CCA are used for outcome assessment.)*</i> - CCA-Section II (Technical Requirements/Patient Positioning and Radiation Protection) Items 1-15 - Exit Interview Questionnaire Items #13 and 14	Each semester for every competency ** Annually	Section II $\geq$ 24 pts for Juniors Section II $\geq$ 27 pts for Seniors & Graduating Seniors 13. 85% graduates respond that they are prepared in general radiography 14. 75% graduates respond that they are prepared or somewhat prepared in advanced imaging areas of CT, MR and Interventional Radiography	Clinical Coordinators Program Faculty

*Clinical Competency Assessment Forms

**Clinical Competency Assessment Schedule

Outcomes Measured	Assessment Tool(s)	Timetable	Benchmark	Person / Group Responsible
Graduates provide appropriate radiation protection during imaging procedures.	Clinical Competency Assessment form (CCA) is used to assess the students' ability to provide appropriate radiation protection during imaging procedures. CCA-Section IV (Radiation Protection) Items 1 – 4	Each semester for every competency **	Section IV $\geq$ 7 pts for Juniors Section IV = 8 pts for Seniors & Graduating Seniors	Clinical Coordinators

*Clinical Competency Assessment Forms

**Clinical Competency Assessment Schedule

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

Outcomes Measured	Assessment Tool(s)	Timetable	Benchmark	Person / Group Responsible
Graduates will communicate effectively with patients in an age appropriate, cultural diverse and compassionate manner.	Clinical Competency Assessment form (CCA) is used to assess the student's ability to communicate with patients in an age appropriate manner during imaging procedures.			
	1. CCA-Section I (Patient care and Communication) Items 1 to 10	Each semester for every competency **	Section I $\geq$ 16 pts for Juniors Section I $\geq$ 18 pts for Seniors & Graduating Seniors	Clinical Coordinators
Graduates will demonstrate effective professional communication.	2. Affective assessment items # 14, 18, 19	Each clinical rotation	Item 14, 18, 19 $\geq$ 6 pts for Juniors Item 14, 18, 19 $\geq$ 7 pts for Seniors & Graduating Seniors	Clinical Coordinators
	HSCI 487: Professional Development of the Radiographer. <i>15 minute professional PowerPoint presentation to the class on a topic related to Radiologic Sciences.</i>	Senior year Spring semester	80% total score on assessment	Program Faculty

Outcomes Measured	Assessment Tool(s)	Timetable	Benchmark	Person / Group Responsible
Graduates will have critical thinking skills appropriate to medical imaging.	HSCI 486A: Seminar Advances in Radiologic Sciences <i>Each student independently develops a topic related to radiologic technology for presentation to the program in either a scientific display or paper format.</i>	One per year	80% total score on assessment	Program Faculty
Graduates will have critical thinking/ problem solving evaluation	1. HSCI 285 –Biweekly assessments items require analysis of radiographic quality and appropriate correction factors. 2. HSCI 281- Critical Thinking Portfolio assignment	Biweekly – first semester Junior year Spring Semester.	80% successfully analyze Radiographic Quality of images presented 80%	Program Faculty Clinical Coordinators

SLO 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)	Timetable	Benchmark	Person / Group Responsible
Students in the professional program participate in at least one professional conference.	Seminar attendance records and short educational summary paper	After each conference	50% of students will participate	Program Faculty
Graduates will pass the senior level (HSCI 487) Professional Development Course which includes: ethics, professional organizations and educational methodologies.	Course grade	Annually	100% pass with a C or better	Program Faculty
Students will complete all program requirements to be qualified for graduation.	Student transcripts	Annually	80% of the students starting the program will complete the program	Program Faculty

SLO 4. The Radiologic Sciences Program at CSUN shall maintain program effectiveness through continued assessment.

Outcomes Measured	Assessment Tool(s)	Timetable	Benchmark	Person / Group Responsible
Each cohort of graduates will pass the national ARRT exam the first time.	ARRT exam report	Annually	100% pass rate	Program Faculty
Each cohort of Graduates will have averaged a score of 85% per class for the national ARRT exam.	ARRT exam report	Annually	85% average per class	Program Faculty
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 ▪ Likert Scale of 10	Annually	8 out of 10	Program Faculty
Graduates who are actually seeking employment in medical imaging upon graduation will have ≥75% employment rate within 6 months of graduation.	One-year post graduate survey	Annually	75%	Program Faculty

Outcomes Measured	Assessment Tool(s)	Timetable	Benchmark	Person / Group Responsible
Graduates are employed in advanced imaging positions.	One-year post graduate survey	Annually	Three months postgraduate $\geq$ 35% advanced imaging employment	Program Faculty
Graduate Satisfaction	Exit Interview	Annually	90% of students satisfied with their education.	Program Faculty

Revised: March 21, 2012

*Clinical Competency Assessment Forms

**Clinical Competency Assessment Schedule

DATA SUMMARY

CSUN RADIOLOGIC SCIENCES OUTCOME ASSESSMENT

January 2012 to December 2012

STUDENT LEARNING OUTCOME (GOAL) 1. Graduate students that demonstrate a mastery of basic and advanced medical imaging skills in MRI, CT and Interventional Radiography, with emphasis on radiation/patient safety.

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 production of qualitative medical images. - CCA-Section II (Technical Requirements/ Patient Positioning & Radiation Positioning) Items-1-15. - Exit Interview Questionnaire Item #13. - Exit Interview Questionnaire Item #14.	Section II $\geq$ 24 pts. for Juniors Section II $\geq$ 27 pts. Senior & GS 85% graduates respond that they are prepared in general radiography [CLASS OF 2012] 75% graduates respond that they are prepared in advanced imaging areas of CT, MR and Interventional Radiography [CLASS OF 2012]	<u>Class averages:</u> Junior 43.7 Senior 47.5 Gr. Sr. 46.9 **Benchmark met** Q#13. 100% **Benchmark met** Q#14. 86% **Benchmark met**
Graduates provide appropriate radiation protection during imaging procedures.	Clinical Competency Assessment form (CCA) is used to assess the student's ability to provide appropriate radiation protection during imaging procedures. CCA-Section IV (Radiation Protection) Items 1 - 4.	Section IV $\geq$ 7 pts. for Juniors Section IV $\geq$ 8 pts. for Seniors & GS	<u>Class averages:</u> Junior 11.7 Senior 12.8 Gr. Sr. 12.5 **Benchmark met**

STUDENT LEARNING OUTCOME (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 & compassionate manner. <i>On Jan. 2011, changes were made to the outcome assessment plan by omitting item #17 and adjusted its benchmarks</i>	Clinical Competency Assessment form (CCA), Affective Assessment form, and the exit interview questionnaire are used to assess the student's ability to communicate with patients in an age appropriate manner. - CCA-Section I (<i>Patient care and Communication</i>) Items 1 – 10 - Affective Assessment Items # 14,18,19.	Section I ≥ 16 pts. for Juniors Section I ≥ 18 pts. for Seniors & GS Items 14, 18, 19 ≥ 6 pts. for Juniors Items 14, 18,19, ≥ 7 pts. for Senior & GS	<u>Class averages:</u> Junior 29.0 Senior 31.6 Gr. Sr. 31.3 **Benchmark met** <u>Class averages:</u> Junior 8.5 Senior 8.5 Gr. Sr. 8.4 **Benchmark met**
Graduates will demonstrate effective professional communication.	HSCI 487: Professional Development of the Radiographer. <i>Professional (PowerPoint) presentation to the class on a topic related to Radiologic Sciences.</i>	80% total score on assessment [CLASS OF 2012] Senior Yr., Spring Semester	88 % **Benchmark met**
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 [CLASS OF 2013]	81% **Benchmark met**

Outcomes Measured	Assessment Tool(s)	Benchmark	RT Program Assessment Data
Graduates will have Critical thinking/ problem solving evaluation	1. HSCI 285: RAP I <i>Periodic assessment items which require analysis of Radiographic Quality.</i>	80% successfully analyze Radiographic Quality of images [CLASS OF 2014] Junior Yr., Fall Semester	90 % **Benchmark met**
	2. HSCI 281: Clinical Education II <i>Critical Thinking Portfolio assignment.</i>	80% on portfolio assignment [CLASS OF 2013] Junior Yr., Spring Semester	94 % **Benchmark met**

STUDENT LEARNING OUTCOME (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 - Jan 2011	54 % **Benchmark met**
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 [CLASS OF 2012]	100 % **Benchmark met**
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 [CLASS OF 2014] - For the entire year (MR, clinical)	100 % **Benchmark met**

STUDENT LEARNING OUTCOME (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 [CLASS OF 2012]	100 % **Benchmark met**¹
Graduates will have averaged a score or 85% per class for the national ARRT exam.	ARRT exam report	85% average per class [CLASS OF 2012]	90 % **Benchmark met**¹
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 ▪ Tool has 10 questions and a Likert Scale of 10	▪ 8 out of 10 [CLASS OF 2011]	8.1 Likert **Benchmark met**
Graduates will have ≥75% employment rate within 6 months of graduation.	One-year employer assessment tool	75% [CLASS OF 2011]	68 % ** Benchmark NOT met**¹ 13/19
Graduates are employed in advanced imaging positions.	One-year post graduate survey	Three months postgraduate ≥ 35% advanced imaging employment [CLASS OF 2011]	38 % **Benchmark met**¹
Graduate Satisfaction	Exit interview questionnaire, Item # 2.	90% of graduates satisfied with education [CLASS OF 2012]	100 % **Benchmark met**¹

CSUN BS, Radiologic Technology Affective Assessment

This form is to evaluate _____ while in the _____ rotation
at _____ site from ____/____/____ to ____/____/____. It is intended to assess only affective personality traits.
(i.e., attitudes, emotions, feelings, etc.)

Please indicate your assessment by filling in the appropriate number in the space provided next to each statement.

0 = Unsatisfactory 1 = Needs Improvement 2 = Satisfactory 3 = Above Average N/A = Unable to Assess

- | | |
|-------|--|
| _____ | 1. Observes personal cleanliness and is appropriately dressed. |
| _____ | 2. Work and cooperate with all department personnel, clinical instructors, and other students. |
| _____ | 3. Be dependable with all assigned duties. |
| _____ | 4. Being in the area at the assigned times (punctuality). |
| _____ | 5. Organize thoughts and functions effectively under normal and emergency conditions. |
| _____ | 6. Demonstrate initiative by seeking extra work and responsibilities. |
| _____ | 7. Accept constructive criticism in a positive manner. |
| _____ | 8. Correct faults or weaknesses indicated by others. |
| _____ | 9. Exhibit confidence in technical abilities. |
| _____ | 10. Avoid becoming over confident in technical abilities. |
| _____ | 11. Appear interested and enthusiastic about radiography. |
| _____ | 12. Keep equipment and supplies neat, clean, and well stocked. |
| _____ | 13. Observe all hospital rules and regulations. |
| _____ | 14. Observe the profession's ethical guidelines for patient care and education. |
| _____ | 15. Avoid displays of inappropriate behavior. |
| _____ | 16. Promotes an atmosphere of harmony and stability. |
| _____ | 17. Be courteous and respectful to patients and hospital personnel. |
| _____ | 18. Treat all patients equally regardless of age, sex, race, religion, disability, or disease. |
| _____ | 19. Exhibit a humanistic response to patient needs. |
| _____ | 20. Promote open communication with patients for "patient education". |

1. Identify this student's strengths – please check all that apply:

- | | | | | |
|---|---|---|--|---|
| ☐ patient education | ☐ patient relations | ☐ follow through | ☐ self confidence | ☐ communication with staff |
| ☐ technical confidence | ☐ ability to follow instructions | ☐ initiative | ☐ problem solving | |

2. Identify this student's weaknesses or "attributes to improve" – please check all that apply:

- | | | | | |
|---|---|---|--|---|
| ☐ patient education | ☐ patient relations | ☐ follow through | ☐ self confidence | ☐ communication with staff |
| ☐ technical confidence | ☐ ability to follow instructions | ☐ initiative | ☐ problem solving | |

3. Indicate your overall impression of this student: (circle)

0 = Unsatisfactory 1 = Needs Improvement 2 = Satisfactory 3 = Above Average

Clinical Instructor's Comments: _____

Clinical Instructor's Signature: _____ Date: _____

Student's Comments: _____

Student's Signature: _____ Date: _____

Clinical Coordinator's Comments: _____

Clinical Coordinator's Signature: _____ Date: _____