KAPI'OLANI COMMUNITY COLLEGE
PROGRAM REVIEW

RADIOLOGIC TECHNOLOGY PROGRAM
2013

Based on Data from 2010 – 2012

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MISSION STATEMENTS

Kapi'olani Community College's Mission Statement 2003-2012

(Approved October 7, 2002 by KCC Faculty Senate)

Kapi'olani Community College

- is a gathering place where Hawai'i's cultural diversity is celebrated, championed and reflected in the students, faculty, staff, administration and curriculum.
- is a nurturing workplace of choice for strong and caring faculty, staff, and administrators committed to a shared vision and set of values.
- strives to be the first choice for education and training for Hawai'i's people.
- provides open access, and promotes students' progress, learning and success with low tuition and high quality instructional programs, student development and support services, and selective areas of excellence and emphasis.
- prepares students to meet rigorous baccalaureate requirements and personal enrichment goals by offering a high quality liberal arts program.
- prepares students to meet rigorous employment and career standards by offering 21st century career programs.
- prepares students for lives of ethical, responsible community involvement by offering opportunities for increased civic engagement.
- leads locally, nationally and internationally in the development of integrated international education through global collaborations.
- uses human, physical, technological and financial resources effectively and efficiently to achieve ambitious educational goals.
- builds partnerships within the University and with other educational, governmental, business, and non-profit organizations to support improved learning from preschool through college and lifelong.
- uses cycles of qualitative and quantitative assessment to document degrees of progress in achieving college goals and objectives.

Program Mission Statement

The mission of the Radiologic Technology program at Kapi'olani Community College is to provide graduates with the entry-level skills and knowledge necessary for performing the tasks of a radiologic technologist in imaging centers, hospitals, clinics, and radiologists' offices and group practices. Further, as the only such program in Hawaii, it is the mission of this program to provide qualified radiologic technologists for the healthcare workforce in the state of Hawaii.

PART I. EXECUTIVE SUMMARY OF PROGRAM STATUS

Since the last program review, the energized and non-energized laboratories have been fully refurbished with new equipment. Admission testing has provided us clear points of separation for determining the admitted group. The program will continue to use the admission test pending further assessment. Our student, graduate and employer surveys continue to indicate satisfaction with the level of competency and training methodology of the program. Retention rate for 2010-2012 is 92% at this time (53 started, 5 lost so far).

PART II. PROGRAM DESCRIPTION

Description

This program includes a combination of subject matter and faculty-supervised clinical experiences designed to prepare a person for the safe operation of x-ray equipment in clinical settings under the supervision of a radiologist or other physician. Satisfactory completion of the requirements for the AS degree permits the student to take the certification examinations of the ARRT, which is accepted by the Hawai'i Board of Radiologic Technology for State licensure. This program is accredited by the JRCERT.

History

The Radiologic Technology Program began instruction in 1970 on the Pensacola campus, next to McKinley High School, in downtown Honolulu. The Allied Health department (Health and Nursing) moved to the present site in 1975. From the first graduating class in 1972 to the class of 2012, the first-time pass rate on the national certification examination given by the ARRT is 97%. The average class score for the ARRT examination continues to surpass the national average. The program has earned the National Secretary's Award, and NISOD award for outstanding vocational program.

Program Goals

The goals of this program meet or exceed the guidelines of the Joint Review Committee for Education in Radiologic Technology. The program is designed to meet these goals through an intensive course of study and laboratory practice and supervised clinical practice in affiliated clinical hospitals. The goals of the Radiologic Technology program are:

Goal 1: Students will practice as entry-level radiologic technologists.
Goal 2: Students will demonstrate effective teamwork, problem-solving, and critical thinking skills.
Goal 3. Students will reflect the value of professional growth and development.
Goal 4. The program will meet workforce needs for radiographers in the state of Hawai'i.

Clinical practice is an essential component of the curriculum, and in order for students to succeed in this phase of training, they must demonstrate competence and professionalism in the hospital setting.

Program SLOs

Upon successful completion of the Associate in Science degree in Radiologic Technology, the student shall be able to:

- Take diagnostically acceptable radiographs of any or all parts of the body.
- Practice appropriate radiation safety measures.
- Communicate and interact appropriately and effectively with patients, patients' family and friends, peers, staff, and supervisors.
- Work effectively as a team member with students, staff, and radiologists.
- Maintain professional and ethical behavior as a healthcare provider.
- Adapt patient positioning, projections, and technical factors based on patient condition.
- Discuss the value of life-long learning and being an active member of a professional society.

Admission Requirements

Additional information is listed in the "Special Requirements for programs in Health Career Education" section. Acceptance into the Radiologic Technology program is on a best-qualified, first-accepted basis. Qualifying English test score (13.0 or equivalent) and math placement (MATH 135) must be obtained prior to submitting an application. Satisfactory completion (grade of "C" or higher) of MATH 135, ENG 100, BIOL 130, BIOL 130L, and HLTH 125 is required prior to application. Standardized admission test score of 75% in all categories is required.

Credentials and Licensures Offered

KapCC offers the A.S. degree in Radiologic Technology. Graduates are eligible for national certification and may obtain state licensure following certification by the ARRT.

Faculty and Staff

Currently there is one full-time staff member teaching RAD courses. The Program Director position is vacant.

Clinical Coordinator: Harry Nakayama, B.S., RT(R)(NM), Prof.

There are two part-time lecturers helping with instruction.

Resources

Kauila 104 is used as the RAD classroom for all lecture-based courses. It is equipped with a Polycom unit that has been used to teach distance courses to a cohort studying on Maui from 2007 through 2009. Prior to that, the Polycom was used to conduct distance courses to a cohort studying on the island of Hawaii from 2003 through 2007. There is also a computer and audio-visual equipment, including an Elmo projector, available for use.

Kauila 101 A & B, and 102 A & B are laboratories containing fully-functional x-ray equipment and phantoms (simulations of an adult human). Two of the four x-ray units were replaced with new units in the summer of 2009. The remaining two units in this laboratory were replaced in 2012. A mobile unit, removed in 2012, has not been replaced due to non-availability of funds.

All of our clinical facilities use computerized imaging. We need to consider moving into that sphere of imaging with planned implementation.

Kauila 105 is a laboratory containing four x-ray units used for simulations only. These units are used for testing and student practice and were installed in 2012.

The program uses monies from professional fees to maintain radiation dosimetry services, cover silver recovery costs, and purchase other items, such as positioning sponges, film, processing chemicals, grid caps, leaded-aprons, other accessory equipment as needed, and higher-level criminal background checks and drug testing for one of our clinical facilities. The program also has a UH Foundation account.

Articulation Agreements

The RAD program has no articulation agreements at this time, and is not currently looking to form any.

Advisory Committee

The Radiologic Technology Program's Advisory Committee meets once per year to provide input regarding curriculum, student preparation, and other matters. The committee consists of Program faculty, Health Sciences counselors, Clinical Instructors, radiologists, administrators, and student representatives.

Internships

The program utilizes eight hospitals and one outpatient-imaging center on Oahu for clinical experience. Students complete 2,159 hours of clinical practicum during the two-year period. Of the eight hospitals, two are specialty facilities for children.

PART III. QUANTITATIVE INDICATORS FOR PROGRAM REVIEW

Demand/Efficiency Tables

Link

http://www.hawaii.edu/offices/cc/arpd/instructional.php?action=analysis&college=KAP&year=2012&program=81

Outcomes

Year	# of Graduates	KapCC Pass Rate	National Pass Rate	KapCC Avg. Score	National Avg. Score
2010	25	100.00%	92.40%	90.1	84.90
2011	20	100.00%	92.40%	89.4	85.10
2012	20	100.00%	93.00%	88.1	85.30

PART IV. CURRICULUM REVIEW AND REVISION

All program courses, with the exception of RAD105, underwent a five-year review in 2008. RAD105 was a new course that was approved by faculty senate and first taught in Fall 2008.

PART V. SURVEY RESULTS

Student Feedback Surveys

Student feedback surveys have been conducted each semester from 2010 – 2012. All surveys revealed an overall satisfaction with their training.

Employment Statistics

Of the 67 Radiologic Technology Program graduates in the period from 2010-2012, 64 were looking for employment following graduation. Of those 64 graduates looking for employment, 47 of them were able to find employment within the state during the six-month period after graduation.

Employer Satisfaction Surveys

Employer satisfaction surveys are conducted annually. All returned surveys reveal an overall satisfaction with the training their employees received from the Radiologic Technology Program at KapCC.

Graduate Satisfaction Surveys

All graduate surveys received from 2010 to 2012, reflect an overall satisfaction with the training they received from the Radiologic Technology Program at KapCC.

PART VI. ANALYSIS OF PROGRAM

Strengths Based on Analysis of Data

The previous "Cautionary" and "Unhealthy" status Indicators are contradictory to the Radiologic Technology Program assessment. The program continues to consistently fill its target capacity and has accepted more than 20 students each year except for the Fall class of 2012 when 16 students were accepted. As is indicated earlier in this document, the attrition rate over the past two years has been low (~8%). Prior to that, it hovered around 20%, which is still low. Graduates consistently pass the national registry examination on their first attempt, and are able to find employment within six months of graduation.

Weaknesses Based on Analysis of Data

Evidence of Quality

The first time pass rate for the national registry examination since 1993 is 100%. The employer and graduate satisfaction surveys indicate that graduates have the content knowledge and the skills to function as an entry-level radiographer. In addition, each semester students are assessed with regard to content knowledge and skill appropriate to their level of training, while progressing at an appropriate pace.

Evidence of Student Learning

Students are assessed in three areas, the classroom, the laboratory, and the clinical setting. These assessments are done every semester for two years (fall, spring, and summer). Students are assessed with regard to content knowledge and critical thinking skills in the classroom, laboratory, and clinical setting. In addition, students are assessed on their skills in areas such as patient care, radiographic positioning and exposure factors, and radiation safety. Assessments in the classroom, laboratory, and clinical setting show evidence of student learning at levels coinciding with their level of training.

Resource Sufficiency

The Radiologic Technology currently has a need to upgrade equipment to the level of our affiliate clinical facilities. Specifically, computerized imaging, whether direct or indirect, will require implementation in the near future. More basic to that is the need for a mobile x-ray unit since the original unit has been removed (non-functional).

Recommendations for Improving Outcomes

Effort has been made beginning last fall, to insert smaller writing assignments throughout the first year and the second year, first semester, of training that will develop skills needed for the writing intensive course that all students must take in the second spring semester. The Spring semester of 2013 will be the first outcome assessment for this particular strategy.

PART VII. TACTICAL ACTION PLAN

Department Action Plan

Appropriate Strategic Outcomes:

A=Hawaiian Attainment, B=Educational Capital, C=Grants Development, D=Workforce Development, E=Professional Development, F=Resource Stewardship).

Tactical Plan Performance Measures: A1, A2, A4; B2, B3, B4, B7; D1, D4;E1; F1, F2,F5

Strategies: A1C,D; A2A, A4D; B2C, B3C,B4I, B4J, B4L, B7B; D1C,D1D, D4B. D4C; E1F; F1A,F1B; F2F, F5A

HMSA, Workforce Development grants (Ulu Pono and C3T) and Alu Like scholarships

1) HOSA partnerships, Health Services Pathway
2) UHM pathway program transfer information sessions
3) Building renovation and equipment upgrades.

Data to be gathered: e.g. ARPD, IEMs, CCSSE, program-specific data
Position(s) Responsible: Program Director, Department Chair and Dean.
Synergies with other programs, units, emphases and initiatives – Key Community partners : Queens Foundation, HMSA Foundation, Affiliating agencies, Advisory committees

The selection process as outlined in the last review has been implemented. The assessment testing phase needs to be scheduled at the college testing center because of its length, the need for proctoring and on-line security. There is little flexibility in scheduling otherwise. If that is not an option, then testing should be arranged with an outside source such as Pearson Vue. The total cost of the test will, in all probability, rise and the overage should be covered by the college if it is unable to provide the service.

PART VIII. RESOURCES AND BUDGET IMPLICATIONS

By the Fall of 2013, the position of Program Director should be filled. The program has approval for a 9-month faculty position also beginning in the Fall.

PART IX. EVALUATION OF DATA AND MEASUREABLE IMPROVEMENTS

Data Evaluation Part VII-1-d

Improvements in last 12 months (list)

Improvements to be made in the next 12 months (list)