

Instructional Program Review 2019/20 UPDATE

Radiologic Technology

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Table of Contents

General Information	1
2019/20 Instructional Program Review	2
Submission Information and Updates (REQUIRED)	2
Outcomes and Assessment (REQUIRED)	2
Program Analysis for Equity and Excellence (REQUIRED)	2
Program Goals (REQUIRED)	2
Action Plans for Goals (REQUIRED)	3
Goal Status Report (REQUIRED)	4
Request Forms	7
Classified Position, BARC and Faculty Position Request	7
Reviewers	8
Liaison's Review	8
Manager's Review	8
Appendix	9

General Information (Instructional Program Review 2019/20 UPDATE)

2019/20 Instructional Program Review

SUBMISSION INFORMATION AND UPDATES (REQUIRED)

- Name of Lead Writer - Kimberly Mills & Jill Chagnon
- Name of Liaison - Ian Kay
- Department Chair - Christine Balderas & Danielle Lauria
- Name of Manager/Service Area Supervisor - Tina Recalde/RADT
- Is this a CTE program? YES

OUTCOMES AND ASSESSMENT (REQUIRED)

Form: 2019/20 Program Review Outcomes and Assessment Section (See appendix)

PROGRAM ANALYSIS FOR EQUITY AND EXCELLENCE (REQUIRED)

Form: 2019/20 Program Review Instructional Program Analysis Section (See appendix)

PROGRAM GOALS (REQUIRED)

2018/19 Radiologic Technology Goals

JRCERT Accreditation

Work with program faculty to attain full JRCERT accreditation and formulate a cohesive team to facilitate student success in the classroom and beyond graduation. Collaborate with industry partners to explore advanced education options for technologists currently working in the field. Review program policies and procedures to ensure compliance with JRCERT Standards and CA State regulations.

Mapping

CTE 2018/19: Perkins Core Indicator Activity 3, Perkins Permissive Use 10.12, Perkins Permissive Use 10.7, Perkins Requirement 4, Perkins Requirement 7, Strong Workforce Recommendation 3, Strong Workforce Recommendation 8, Strong Workforce Recommendation 9

Equipment upgrades

The program would like to upgrade outdated equipment to reduce the additional stress placed on students who must learn new skills on "older" equipment and then perform those skills on real patients in the clinical setting. This goal, if achieved, will benefit economically disadvantaged students identified in the program.

Mapping

CTE 2018/19: Perkins Core Indicator Activity 1, Perkins Core Indicator Activity 3, Perkins Permissive Use 10.7, Perkins Requirement 2, Perkins Requirement 4, Perkins Requirement 5, Perkins Requirement 1, Perkins Requirement 3, Perkins Requirement 6, Perkins Requirement 7, Perkins Requirement 8, Perkins Requirement 9, Strong Workforce Recommendation 15, Strong Workforce Recommendation 2, Strong Workforce Recommendation 7

ACTION PLANS FOR GOALS (REQUIRED)

Actions

2018/19 Radiologic Technology Goals

Goal

Goal: JRCERT Accreditation

Work with program faculty to attain full JRCERT accreditation and formulate a cohesive team to facilitate student success in the classroom and beyond graduation. Collaborate with industry partners to explore advanced education options for technologists currently working in the field. Review program policies and procedures to ensure compliance with JRCERT Standards and CA State regulations.

Action: Equipment upgrades

Describe the actions needed to achieve this objective:

Funding will be needed to purchase a new digital portable x-ray unit, upgrade the CT scanner and mammography unit.

Who will be responsible for overseeing the completion of this objective:

The program director, Kimberly Mills & the full time faculty, Jill Chagnon.

Provide a timeline for the actions:

If funding is provided, the digital portable would be purchased and delivered by June 30, 2020. The CT scanner & mammography unit upgrades will be completed by December 2020.

Describe the assessment plan you will use to know if the objective was achieved and effective:

The successful completion of clinical competencies for portable exams will be the benchmark for the digital portable. Successful completion of the lab courses using the newly updated equipment & advanced certification in CT & Mammography will be the benchmark for the CT scanner & mammography unit.

List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):

New equipment and IT & electrical infrastructure

Action: JRCERT

Describe the actions needed to achieve this objective:

Who will be responsible for overseeing the completion of this objective:

Provide a timeline for the

actions:

Describe the assessment plan you will use to know if the objective was achieved and effective:

List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):

GOAL STATUS REPORT (REQUIRED)

Action Statuses

2018/19 Radiologic Technology Goals

Goal

Goal: JRCERT Accreditation

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List resources needed to achieve this objective and associated costs (Supplies,

New equipment and IT & electrical infrastructure

**Equipment, Computer
Equipment, Travel &
Conference, Software,
Facilities, Classified Staff,
Faculty, Other):**

Status for Equipment upgrades

No Status Added

Action: JRCERT

**Describe the actions
needed to achieve this
objective:**

**Who will be responsible for
overseeing the completion
of this objective:**

**Provide a timeline for the
actions:**

**Describe the assessment
plan you will use to know if
the objective was achieved
and effective:**

**List resources needed to
achieve this objective and
associated costs (Supplies,
Equipment, Computer
Equipment, Travel &
Conference, Software,
Facilities, Classified Staff,
Faculty, Other):**

Status for JRCERT

Current Status:

**If the Current Status was
marked Completed, what
was the impact of the
completed objective on
your program:**

**If the Current Status was
not marked Completed,
what are the implications
and next steps:**

Completed

The program attained full accreditation and passed the JRCERT Accreditation site visit with only 1 citation. The updated PLOs and program goals were not listed in the 2019-2020 online catalog. That issue has since been resolved. The program policies & procedures are in compliance with the JRCERT Standards & CA State Regulations.

Request Forms

CLASSIFIED POSITION, BARC AND FACULTY POSITION REQUEST

Reviewers

LIAISON'S REVIEW

Form: Instructional Program Liaison's Review 2019/20 UPDATE

MANAGER'S REVIEW

Form: Instructional Program Manager's Review 2019/20 UPDATE

Appendix

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- A. **2019/20 Program Review Outcomes and Assessment Section** (Form)
 - B. **2019/20 Program Review Instructional Program Analysis Section** (Form)
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Form: "2019/20 Program Review Outcomes and Assessment Section"

Created with : Taskstream

Participating Area: Radiologic Technology

(REQUIRED) Program name

Radiologic Technology (RADT)

(REQUIRED) Are you on target with your assessment schedule?

The program is slightly behind on the assessment schedule. This is due to the JRCERT Accreditation site visit taking a tremendous amount of time to prepare for and some difficulty in obtaining pertinent information from adjunct faculty. The program will be working on the assessment schedule as we move into the spring semester.

(REQUIRED) What have your assessments revealed about your courses/programs/service area/school/division/office?

The program has completely revised the academic assessment plan that is required for the JRCERT Accreditation. The program has been working to move a couple of courses within the program sequence for student success and progression. The RADT 050 Concepts of Imaging Technologies will be moved outside the program and become a prerequisite course beginning in 2022, which will streamline the admissions process. In Fall 2019, RADT 101 Basic Radiologic Technology course was moved from the first fall semester to the previous summer semester to provide an orientation to the program. The fall placement was "too late" to be considered an orientation course. In addition, the RADT 150 Forensic Radiology course has been removed from the program (fall semester) as this course is not a necessary part of the curriculum. In spring 2021, the RADT 275L Computed Tomography Lab will be temporarily changed an elective course since the CT scanner is not fully functioning due to corrupt software. The goal of the program is to update the CT scanner equipment and/or software so the unit can be fully functional.

(REQUIRED) Based on your assessments, what resource needs have you identified?

New equipment in digital radiography, modern CT scanner and digital mammography.

Please provide any other comments.

No answer specified

Form: "2019/20 Program Review Instructional Program Analysis Section"

Created with : Taskstream

Participating Area: Radiologic Technology

Program Name

(REQUIRED) Type your program name.

Radiologic Technology (RADT)

Part A: In this section, please analyze your program in terms of course success metric. Start by disaggregating the available data by race, gender, and any other parameters of interest to your program and answer the following questions.

(REQUIRED) A1. What patterns do you notice with regard to equity in course success at the program level by race/ethnicity?

You may also conduct analysis by course and/or by modality.

Equity Gap: When a group of students who share a common characteristic (e.g. race/ethnicity) have lower access and/or outcome rates than their peers. The size of the equity gap along with the size of the group determine whether that gap is significant. Larger groups should, statistically, have smaller gaps and therefore when gaps are present (even small ones) they may be significant. Smaller groups will see wider variation in outcomes, therefore gaps should be seen consistently over time and/or reviewed by looking at multiple years in aggregate to determine if they are significant.

The most significant trend among RADT students in terms of course success is directly related to economic and financial status, and is somewhat related to race/ethnicity. For example, students who tend to have financial struggles also struggle to find time to study for classes, which negatively impacts their course success. The majority of students who experience financial difficulties cover a wide range of race & ethnic backgrounds, including single mothers, so I cannot isolate one demographic group. What all these students have in common is not enough money to pay for college and other housing expenses. In addition, most financial aid and scholarship funds only cover the tuition and books, but these students need help with rent. This financial burden does not allow students the time they need to study and prepare for classes because they are forced to work nearly full time hours just to pay for housing costs.

(REQUIRED) A2. Do these patterns persist over time (e.g., look at the last five years)? Describe if equity gaps are increasing, decreasing, or staying the same?

The need for financial assistance beyond just tuition has persisted over the past 5 years and I do not see a decline in this pattern. Students are desperate to go back to school, even if it means they will be financially strapped for 2 full years, because the end goal is a much higher wage-earning position. The short-term sacrifice seems to outweigh the long-term benefit.

(REQUIRED) A3. What factors may have influenced these results? What are your most significant findings?

The continued rise in the cost of living, especially housing, in the San Diego area has the most significant impact and no relief in sight.

(REQUIRED) A4. How have you/might you alter practices to increase student success and reduce equity gaps?

The program has been working to reduce unnecessary courses from the program and rearrange course hours to be more beneficial to students. Some online courses have been moved back to campus because students often spend more time "out-of-class" when the course is online and they do not have the same level of faculty engagement when compared to on-campus classes. The program would like to also upgrade some of the x-ray equipment so it represents what is being utilized in the clinical setting. Older equipment can sometimes become a barrier to learning, especially for students who are under stress from "outside" financial constraints. If the campus lab does not have the **same type of modern** equipment to learn on, students feel like this is another obstacle they must overcome because it seems "so much different" than the equipment at the clinical site. The program would like to purchase a digital portable, digital mammography equipment & a new CT scanner to help minimize this barrier.

(REQUIRED) A5. How does your program contribute to the College's identity of being a Hispanic Serving Institution?

The program offers specific outreach to the Hispanic community in hopes of offering a guided pathway into the RADT program.

(REQUIRED) A6. Have you identified resource needs? If yes, please list.

The main resources needed for the program is funds to update equipment. This has been added as a program goal and I will need to submit a BARC request for these items as well. Staying current with the latest technology helps students transition into the clinical learning environment with greater ease. This is especially important for students from economically disadvantaged backgrounds with little financial assistant to help "smooth the way." Outdated equipment has a negative impact on students that can effect successful program progression.

(REQUIRED) A7. Do any of your program goals address these implications or needs? If not, please develop a new goal that addresses your findings and subsequent reflection.

Yes, the new goal specifically addresses the need for updated equipment.

Part B: In this section, look at the area of focus you identified in last year's program review and answer the following questions.

(REQUIRED) B1. How have you developed this focus? Are you seeing any results? What are your next steps?

This focus is a trend I have witnessed over the past several years with the transition from film/screen to the digital age. The major concern is technologists already working at the clinical sites do not have the educational foundation knowledge in digital imaging because this was not taught when they were in the program. Since this is a newly emerging technology that evolves very quickly, Mesa faculty need to have modern x-ray equipment on campus to effectively teach program students the current technology. We cannot rely on the technologists in the field to "pass along" this knowledge to students as they have learned what they know about digital imaging through continuing education modules that

are lacking in breadth and scope of knowledge. Therefore, it will become increasingly vital for the program to update x-ray equipment to stay fully abreast with the latest digital imaging technology.