Santa Rosa Junior College
Program Resource Planning Process

Radiologic Technology 2019

1.1a Mission

Based on the major missions of the college, the faculty of the Radiologic Technology Program at Santa Rosa Junior College is dedicated to facilitating the growth and development of enrolled students in becoming competent entry-level radiologic technologists to function within the healthcare community they serve.

Program Objectives:
The major goals of the Santa Rosa Junior College Radiologic Technology Program are to assist the enrolled students:
- in performing positioning skills with accuracy, utilizing skills in radiation protection, and demonstrating proper equipment handling;
- in using critical thinking to recognize image quality and to adapt to non-routine patients and procedures;
- in demonstrating good communication in clinical environment, as well as demonstrating good oral and written communication;
- in demonstrating professionalism and understanding of ethical decision making.

1.1b Mission Alignment

Our program mission is based on the college mission. Thus, we do believe that it is well aligned with the District's mission. Of the Strategic plan listed below, the radiologic technology program embraces all, but is particularly invested in bulleted points #1, #4 and #5.

Mission

SRJC passionately cultivates learning through the creative, intellectual, physical, social, emotional, aesthetic and ethical development of our diverse community.

• We focus on student learning by preparing students for transfer; **by providing responsive career and technical education**; and by improving students' foundational skills.
• We provide a comprehensive range of student development programs and services that support student success and enrich student lives.
• We support the **economic vitality, social equity and environmental stewardship** of our region.
• We **promote personal and professional growth and cultivate joy at work and in lifelong learning.**
• We foster critical and reflective civic engagement and thoughtful participation in diverse local and global communities.
• We regularly assess, self-reflect, adapt, and continuously improve.

1.1c Description

The SRJC Radiologic Technology program serves the community in educating and graduating qualified students to become health care professionals in Radiologic Technology.

1.1d Hours of Office Operation and Service by Location

The program's operational hours span as early as 07:00 and as late as 18:00 Monday through Friday. We do allow some limited "swing shift" hours as a part of their clinical experience, but only if there is adequate supervision for the student available, and only when specifically requested and authorized.

The Joint Review Committee in Education of Radiologic Technology (JRCERT) defines traditional program hours Monday - Friday within the hours of 05:00 through 19:00. The JRCERT will also allow evening and weekend experience on occasion. No night shift. (JRCERT standard 1.3)

1.2 Program/Unit Context and Environmental Scan

Effective 2015, the American Registry of Radiologic Technologists (ARRT) required that all applicants seeking to challange the national board certifying exam in radiography and radiation therapy, have achieved at minimum an associate level education (AA or AS) though not necessarily the degree in radiologic technology.

Regarding CTE certificates, the program has very good relationships with the various health care agencies.

Recent graduates are still finding employment although not always full time. Many have taken part time or per diem positions. Most recent survey (2018) indicates that our 5 year employment rate for our graduates is 90% at 12 months post graduation. In compliance with a JRCERT mandate regarding transparency, we have posted our mission statement, program SLO's and Program Effectiveness data on the Radiologic Technology homepage. https://radtech.santarosa.edu

Currently, we are affiliated with 20clinincal sites within a 75 mile radius of the college. We have discontinued our designation as a State of CA fluoroscopy school but this change does not affect our students ability to challange the State of CA Fluoroscopy permit exam.

2.1a Budget Needs

2019-2020:

1. Faculty continue to visit students on a periodic basis, and we again request adequate funding for mileage reimbursement. We are budgeted for $1,750.00 per year. Faculty have been directed to visit the students as often as necessary, but to limit their visits to students on site at minimum of twice per semester and more if necessary.

2. We request funding to affiliate with additional clinical sites as these opportunities become available. Any additional clinical placements nearby would be welcome additions and may also allow us to increase the size of our incoming cohort.

3. The State of CA and our radiation protection policy here at SRJC mandates that we have our existing x-ray installation certified for operational safety by a physicist annually. This was last accomplished in April 2017. We have contracted with a different physicist organization, and their fee is $850.00 per visit. With the new Carestream DR X-ray room, the cost may change. Unable to determine that at this time.

4. The State of CA has increased their fee for affiliated clinical sites. Presentlty we are associated with 20 sites. At the new rate of $284 + $164 per clinical site (20) we are projecting an annual invoice for $3500.00 in August 2019. As this is the first rate increase in many years, we anticipate this present rate to remain stable.

We appreciate the VPAA's office for shouldering this expense, and we did make them aware of the price increase last year.

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18

2.1 Fiscal Year Expenditures

Santa Rosa Campus

Expenditure Category	Unrestricted Funds	Change from 2016-17	Restricted Funds	Change from 2016-17	Total	Change from 2016-17
Faculty payroll	$87,964.00	5.34%	$0.00	0.00%	$87,964.00	5.34%
Adjunct payroll	$177,622.69	7.96%	$0.00	0.00%	$177,622.69	7.96%
Classified payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
STNC payroll	$0.00	-100.00%	$0.00	0.00%	$0.00	-100.00%
Student payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Management payroll (and Dept Chairs)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Benefits (3000's)	$48,072.82	-4.98%	$0.00	0.00%	$48,072.82	-4.98%
Supplies (4000's)	$1,245.58	5.99%	$1,028.33	0.00%	$2,273.91	93.49%
Services (5000's)	$4,909.33	17.75%	$0.00	0.00%	$4,909.33	17.75%
Equipment (6000's)	$0.00	-100.00%	$9,180.35	481.25%	$9,180.35	393.82%
Total Expenditures	**$319,814.42**	**5.12%**	**$10,208.68**	**546.36%**	**$330,023.10**	**7.92%**

Expenditure Totals

Expenditure Category	Amount	Change from 2016-17	District Total	% of District Total
Total Expenditures	$334,528.55	7.91%	$154,788,480.66	0.22%
Total Faculty Payroll	$269,435.09	7.06%	$50,884,933.44	0.53%
Total Classified Payroll	$0.00	0.00%	$22,270,301.15	0.00%
Total Management Payroll	$0.00	0.00%	$10,134,908.88	0.00%

Total Salary/Benefits Costs	$318,164.96	5.07%	$111,941,187.45	0.28%
Total Non-Personnel Costs	$16,363.59	127.16%	$16,406,746.64	0.10%

Radiologic Technology is ONLY taught on the Santa Rosa campus.

2.1b Budget Requests

Rank	Location	SP	M	Amount	Brief Rationale
0001	Santa Rosa	06	01	$1,750.00	Mileage allowance for adjunct faculty to visit students on site.
0002	Santa Rosa	04	01	$850.00	Annual X-ray room annual radiation safety and performance check to be accomplished yearly per State of CA mandate. Physicist fee is $850 in 2017.
0003	Santa Rosa	04	01	$750.00	Budget to affiliate with clinical sites as those opportunities become available.

2.2a Current Classified Positions

Position	Hr/Wk	Mo/Yr	Job Duties
None needed	0.00	0.00	

2.2b Current Management/Confidential Positions

Position	Hr/Wk	Mo/Yr	Job Duties
None needed	0.00	0.00	

2.2c Current STNC/Student Worker Positions

Position	Hr/Wk	Mo/Yr	Job Duties
Student Workers	0.00	0.00	The radiologic technology program is grateful to share the existing student workers in health sciences cluster. Incidently, although we are not too demanding on this work resource, when we do use them they do an EXCELLENT job.

2.2d Adequacy and Effectiveness of Staffing

UPDATED FOR 2019-2020

A f/t clinical coordinator position is requested to accommodate two classes of students in the clinical site on different days, not at the same time. The end result is 2 trips to the clinical site rather than just one. Our clinical sites are spread out geographically from Marin to Willits and east to Napa. Radiologic Technology has requested this position for the past 8 years.

Additionally, it has become increasingly difficult to staff our didactic classes AND adequate clinical coordinator coverage utilizing adjuncts only. Radiologic Technology subscribes to the model of 1 clinical coordinator hour per student per week, and based on 38 students currently. According to the Faculty load conversion table (REV: 8/16/16 effective Spring 2017 * Includes regular ADN program and KAD), 21.25 hours credit lab = 100%. Based on 40 students, that equates to 188% for clinical coordinator alone and this *in addition to* covering all of the classroom instruction. The program director is forbidden from acting as a clinical coordinator per our accreditation.

Finally, in 2018, I requested one (1) additional instructor to participate in positioning labs 61A and 61B. With the new DR room becoming available in 2019, the students can now start to make exposures on anatomical models and positioning phantoms as a part of lab. This will require the presence of a faculty who possesses a certification as a radiologic technologist. One instructor can work 1:1 with students making exposures, while the other instructor in the other lab can be working with small groups of students practicing radiographic positioning.

Radiologic Technology - FY 2017-18

2.2 Fiscal Year Employee Data and Calculations

Employee Head Counts

Employee Category	Count	Change from 2016-17	District Total	% of District Total
Contract Faculty	1	0.00%	317	0.32%
Adjunct Faculty	7	-12.50%	1352	0.52%
Classified Staff	0	0.00%	525	0.00%
STNC Workers	0	-100.00%	427	0.00%
Student Workers	0	0.00%	506	0.00%
Mgmt/Admin/Dept Chair	0	0.00%	170	0.00%

Employee FTE Totals

FTE Category	FTE	Change from 2016-17	District Total	% of District Total
FTE-F - Faculty	4.6375	3.92%	726.9903	0.64%
FTE-CF - Contract Faculty	1.0000	0.00%	314.0788	0.32%
FTE-AF - Adjunct Faculty	3.6375	5.06%	412.9115	0.88%
FTE-C - Classified	0.0000	0.00%	446.6005	0.00%
FTE-ST - STNC	0.0000	-100.00%	41.0691	0.00%
FTE-SS - Support Staff	0.0000	-100.00%	648.5309	0.00%
FTE-SW - Student Workers	0.0000	0.00%	160.8613	0.00%
FTE-M - Management	0.0000	0.00%	119.8350	0.00%
FTE-DC - Department Chairs	0.0000	0.00%	0.0000	0.00%

Student Data

Data Element	Value	Change from 2016-17	District Total	% of District Total
FTES-CR - Credit	98.7522	-5.52%	14738.9657	0.67%
FTES-NC - Non-Credit	0.0000	0.00%	2075.9009	0.00%
FTES - combined	98.7522	-5.52%	16814.8666	0.59%
Students Enrolled/Served	485	5.43%	30000	1.62%

Calculations

Data Element	Value	Change from 2016-17	District Total	% of District Total
FTE-S : FTE-F	21.2945	-9.09%	23.1294	92.07%
FTE-AF : FTE-CF	3.6375	5.06%	1.3147	276.68%
FTE-F : FTE-SS	0.0000	-100.00%	1.1210	0.00%
FTE-F : FTE-M	0.0000	0.00%	6.0666	0.00%
FTE-SS : FTE-M	0.0000	0.00%	5.4119	0.00%
FTE-ST : FTE-C	0.0000	0.00%	0.0920	0.00%
Average Faculty Salary per FTE-F	$58,099.72	3.02%	$69,993.96	83.01%
Average Classified Salary per FTE-C	$0.00	0.00%	$49,866.27	0.00%

Average Management Salary per FTE-M	$0.00	0.00%	$84,573.86	0.00%
Salary/Benefit costs as a % of total budget	95.11%	-2.63%	72.32%	131.51%
Non-Personnel $ as a % of total budget	4.89%	110.51%	10.60%	46.15%
Restricted Funds as a % of total budget	3.05%	498.97%	17.08%	17.87%
Total Unit Cost per FTE-F	$72,136.17	3.84%	$212,916.84	33.88%
Total Unit Cost per FTE-C	$0.00	0.00%	$346,592.72	0.00%
Total Unit Cost per FTE-M	$0.00	0.00%	$1,291,680.07	0.00%
Total Unit Cost per FTE-S	$3,387.56	14.22%	$9,205.45	36.80%
Total Unit Cost per student served/enrolled	$689.75	2.35%	$5,159.62	13.37%

2.2e Classified, STNC, Management Staffing Requests

Rank	Location	SP	M	Current Title	Proposed Title	Type
0000	Santa Rosa	00	00	none	none at this time	Classified

2.3a Current Contract Faculty Positions

Position	Description
FT faculty position	The current full time position has 23% release time for program coordination.
Adjunct faculty positions	There are presently 5 active adjuncts on the roster. 2 adjuncts teach in the classroom and take clinical coordinator responsibilities. 2 adjuncts work soley as a clinical coordinator. 1 adjunct teachs in class and lab only.

2.3b Full-Time and Part-Time Ratios

Discipline	FTEF Reg	% Reg Load	FTEF Adj	% Adj Load	Description
Radiologic Technology	0.4700	0.7600	2.3900	85.0000	There are no full time coordinator/instructors in the program with the exception of the program director.

2.3c Faculty Within Retirement Range

Of the core radiologic technology faculty, four of five are within retirement age. The full time program director position is posted as an employment opportunity closing April 3, 2019 with interviews to be conducted in May 2019.

2.3d Analysis of Faculty Staffing Needs and Rationale to Support Requests

With our program now at full capacity, additional clinical coordinator time or positions will become necessary. Although we have 4 adjunct faculty and all can function in the clinical coordinator capacity, these faculty have other jobs that preclude them from robust participation for SRJC activities The minimum qualifications for clinical coordinator include a baccalaureate degree, experience in supervision and curriculum design, 2 years clinical experience and certification in the professional discipline. (JRCERT standards 2.2, 3.8, 6.3)

2018 Narritive

(A) Position: Radiologic Technology Clinical Coordinator

Radiologic Technology requests one full time clinical coordinator (CC) position. Primary responsibilities of this position are to coordinate and oversee the student's clinical activities and to document student progress over the 2 year program. Additionally, this faculty member will be expected to teach in the discipline as well as maintain all of the other requirements and obligations that the college expects of a full time faculty. Radiologic Technology has requested a full time clinical coordinator position in our PRPP from 2013 to present.

Current Contract Faculty:

Presently there is one full time program director (PD) position which is in place as is required by our accrediting agency the Joint Review Committee of Education in Radiologic Technology (JRCERT). Radiologic Technology is mandated by JRCERT Standard 2.2 to have a full time program director. All JRCERT accredited programs subscribe to this same model. The PD has 23% re-assigned time here at SRJC. The previous PD went on LOA in fall of 2011 and retired in spring 2012. The new PD started as adjunct that spring then full time in fall 2012. That PD has announced his retirement effective July 20, 2019. New PD is the only new contract position in the past seven years and conceivably longer than that. In addition to Standard 2.2 quoted above, JRCERT Standard 6.3 requires that clinical coordinator holds at minimum a baccalaureate degree, or an associate degree plus 6 years' experience. Existing faculty all meet these requirements.

Current Adjunct Faculty:

Presently there are five adjunct faculty associated with radiology technology. There have been two other applicants for the radiologic technology pool in the past 12 months; one only has a certificate in radiologic sciencs and needs at least an AS degree to be eligible for hire, the other did not have the State of California Fluoroscopy certification and therefore did not meet minimum qualifications. Therefore, the PD and four adjunct faculty are overseeing 37 students in 20 clinical sites.

Institutional Impact:

Primarily, this position will oversee all aspects of the clinical experience courses at our affiliated clinical sites. We are mandated by the college to accept a cohort once each fall semester of 20 students. As of the spring 2019, we have 38 continuing students between the 2 cohorts. Our program has affiliation agreements with 19 clinical sites. Some of our clinical sites are only able to accommodate on student from each class per semester. In two cohorts of 20 students each spread out in clinical sites from Kentfield to Willits and Napa to Lake county, it is logistically challenging to give all students' access to their CC on a monthly basis in their clinical setting. This is confounded by separating alternate cohorts on alternate days in the clinical sites. A 1st year student attends assigned hospital site on Tuesday and Thursday, and 2nd year student in the same hospital Monday, Wednesday and Friday. Cohorts of students are assigned alternate days based on the class schedule and JRCERT regulation. Therefore, clinical coordinators may need to make two trips to the same site on subsequent days.

Department Needs and Goals:

Based on the geographic expanse of our affiliated clinical sites spanning 3900 square miles over 5 counties, Radiologic Technology requests a full time clinical coordinator position to primarily oversee activities for our students in their clinical site as well as teach in the classroom and to participate in college service activities as required of all full-time faculty. With 20 students in each cohort (40 total) and assuming one hour per week per student, the faculty load equals 94.118 load for each of the two cohorts for clinical coordination alone!

Degrees & Certificates:

Counting the Radiologic Technology AS degree, the college certificate of completion, CT, MRI, venipuncture, mammography and fluoroscopy certifications all together for the past 5 years total more than 200 in a combined student population of 65. All have completed and graduated. As of 2015, the American Registry of Radiologic Technologist requires all graduates applying for registration as a radiologic technologist to have an associate degree level education at minimum.

Our Radiologic Technology program interfaces with the college strategic plan mission by providing responsive career and technical expertise in the field of diagnostic medical imaging and secondarily to support the economic vitality in our region. Additionally, as our graduates start their career, they grow professionally into essential members of the health care team.

CTE Positions:

Health science sector shows projected growth in Sonoma county and nationwide. Ben Stone presented at the CTE meeting 9/26/14 and indicated 15% growth in the Health Sector for the period 2010 – 2020. This correlates well with BLS projection of 21% growth for radiologic technology the period 2012-2022 and the anticipated need of 48,000 jobs nationwide. Of the most recent graduating class (July 2018) 94% have succesfully passed the national board certifying exam and are fully credentialed radiologice technologists. Of those 90% are gainfully employed.

Bay Area: LMI demand data indicates that there is currently an average of 142 Radiologic Technology awardees per year and 577 Radiologic Technology openings (new and replacements) per year, creating a supply gap of 435.

ALL California: There is an 8% estimated growth in our industry, which equals 2435 RT job openings, (new and replacement). It's predicted that there will be 633 graduates in California during the same time frame, leaving a supply gap of 1802 jobs to be filled.

Position Mandates: Our accrediting agency JRCERT requires in Standard 2.2:

"A full-time program director is required… Additionally, a full-time equivalent clinical coordinator is required if the program has more than five (5) active clinical settings or more than thirty (30) students enrolled in the clinical component. The clinical coordinator position may be shared by no more than four (4) appointees. If a clinical coordinator is required, the program director may not be identified as the clinical coordinator. The clinical coordinator may not be identified as the program director."

Under our present model, the PD is acting as one of the 5 appointed clinical coordinators, and we have more than 4 appointees overseeing students in the clinical sites. Therefore, under the current model we are out of compliance with our accrediting agency standards. For all of the reasons stated above, Radiologic Technology requests one full time clinical coordinator position.

(B) Position: Additional instructor in RADT 61A and 61B positioning labs

In an effort to better accommodate the needs of our clinical facility partners over concerns of patient safety, more efficiently use our equipment in the lab setting and provide students with more thorough hands-on practice, I am requesting that an additional instructor be assigned to the positioning labs in the first and second semesters. By adding one additional instructor for each lab, we can maintain the small instructor to student ratio (1:5), and with the installation of a new DR x-ray room we can now allow students to make exposures on anatomical models and anthropomorphic phantoms to have hands on experience with positioning and technique. However, students making exposures are required to have direct faculty supervision at all times, thus the presence of an additional instructor. This position can be assigned one of our existing, qualified adjunct instructors.

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2.3a Contract Faculty Positions Employees paid from a Contract Faculty OBJECT code

Name Last	First	Position	Hours	HR FTE	DM FTE
Lehrer	Richard	Faculty	0.00	1.0000	0.0000
Totals			**0.00**	**1.0000**	**0.0000**

2.3b Adjunct Faculty Positions Employees paid from an Adjunct Faculty OBJECT code

Name Last	First	Position	Hours	FTE
Alander	Tammy		291.00	0.5827
Diehl	Keith		189.00	0.2753
Lehrer	Richard		53.62	0.7775
Maslow	Rene		1.00	0.1653
McCann	Janet		369.00	0.4259
Patterson	Bonnie		441.50	0.4107
Robertson	Joanne		516.00	1.0000
Totals			**1861.12**	**3.6375**

2.3e Faculty Staffing Requests

Rank	Location	SP	M	Discipline	SLO Assessment Rationale
0001	ALL	02	01	Clinical Coordinator - see 2.2d and 2.3d	Radiologic technology has 40 students program wide in hospital and clinical assignments from Marin all the way to Willits. The ability to evaluate every student in their assigned clinical site once per month at minimum has become difficult given the wide geographic distance between sites, the total number of students requiring that interaction, and that the students are not all in their clinical sites every day of the week. First year students alternate days with second year students. In an effort to adequately evaluate the student's familiarity with the listed SLO's, and to provide remediation to those who may require it, a full time clinical coordinator is necessary to provide student support in the clinical site and on campus. The program director has functioned as an additional clinical coordinator although this practice violates our accreditation standards (Standard 2.2). Our accrediting agency requires that faculty periodically evaluate students in the clinical setting. The site visits are especially valuable to our students from the perspective or reviewing their images for technical quality, positioning quality and radiation protection. This task cannot be accomplished here on campus, viewing the student images is the only way to do this. Student Learning Outcomes: 1. Operate radiographic imaging equipment and accessory devices. 2. Position patients and modify standard procedures to accommodate for patient condition exposure factors. 3. Perform radiographic examination and procedures with minimum radiation exposure for the patient, self, and others.
0001	ALL	01	01	One additional instructor in positioning labs	Positioning lab for the incoming students is their only opportunity to learn how to manipulate radiographic equipment and to position their patient's body in a non-threatening laboratory environment. In the first semester, there is a 3.0 hour lab associated with their Positioning 1 (RADT61A) and Positioning 2 (RADT61B) courses. This is designed to give all students the opportunity to practice and to make mistakes and to be guided by faculty and student proctors prior to interacting with actual patients in a hospital setting. The ratio is 1 instructor to 10 students. The instructor demonstrates the "positions of the day" and then allows the students time to practice it. With 180 minutes in lab, and 45 minutes taken by demonstration, there is not adequate instructor per student time to obtain enough familiarity for each of the 58 positions taught in the fall and 63 positions in the spring semester. Additionally, in the fall, the students need to learn how to manipulate the equipment. I am requesting an additional instructor to participate in these labs which effectively takes the instructor to student ratio from 1:10 down to 1:5, increase the hands on time with the students working in a more manageable and smaller group. The added benefit with the installation of the new DR x-ray room is the ability of students to make actual exposures on phantoms under direct supervision thereby observing the effects of positioning and technique changes. Faculty load for this position calculated at the credit lab 4.7059 rate for a one (1) credit course in each of the fall and spring semesters = 4.7059 for fall and 4.7059 in the spring. The instructor of record can serve as the other lab instructor.

2.4b Rationale for Instructional and Non-Instructional Equipment, Technology, and Software

2019-2020 - Priorities in descending order

Priority One - Fluke Dosimeter
Our dosimeter requires calibration to accurately measure radiographic exposures. Industry standards require that calibration be accomplished annually. Ours was last calibrated in March 2014.

Priorty Two - Anthropomorphic Skeletal Phantom
One anthropomorphic phantom is requested to allow students the opportunity to perform radiologic exams on various body parts using various image receptors and to observe the effects of changes to positioning and technical factor selection.

Priority Three - Instadose+ A wireless dosimetry device and base station to capture dosimetry readings of faculty and students for state and national compliance of radiation exposure monitoring. Automating the process of reporting and tracking this data will supply more accurate and complete data regarding possible radiation exposure, and allow users to pinpoint high dose exposures and anomalies faster.

Priority Four - ASRT Clinical Instructor Training Modules
JRCERT requires clinical instructors to meet orientation and supervison requirements. These comprehensive modules are desgined standardize the orientation and comply with annual recertification for our 60+ onsite clinical facility instructors.

Priority Last - Surgical Handwashing Sink
This is necessary to instruct in aseptic handwashing in preperation for surgical or other aseptic procedures. This equipment could be utilized by the nursing programs.

2.4c Instructional Equipment Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Santa Rosa	01	01	Calibrate Fluke Dosimeter	1	$1,750.00	$1,750.00	Rich Lehrer	4047	Rich Lehrer
0001	ALL	00	00	ASRT Clinical Instructor Series	1	$1,000.00	$1,000.00	Rich Lehrer	4074	Rich Lehrer 4346
0002	Santa Rosa	02	01	anthropomorphic skeletal phantom	1	$35,000.00	$35,000.00	Rich Lehrer	4047	Rich Lehrer
0003	Santa Rosa	08	07	Instadose + Base Station dosimeter	1	$3,500.00	$3,500.00	Rich Lehrer		
0004	Santa Rosa	08	06	ASRT Clinical Instructor training series	1	$1,000.00	$1,000.00	Rich Lehrer		
0005	Santa Rosa	02	01	Surgical Handwash sink	1	$5,000.00	$5,000.00	Bonnie Patterson		

2.4d Non-Instructional Equipment and Technology Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact

2.5a Minor Facilities Requests

Rank	Location	SP	M	Time Frame	Building	Room Number	Est. Cost	Description
0001	Santa Rosa	04	01	Urgent	Race	4047	$10,000.00	With the installation of a new digital x-ray room, some vendors have advised me that at the point where the old equipment is removed, it is likely that I may have to repair the floor by leveling with cement then replacing floor tiles. Additionally, the vendor has advised 2 new counters to accomidate the updated equipment and several new 120 VAC outlets and data drops. It would also be the right time to re-paint the room which has never been done since the room was installed 15+ years ago.

2.5b Analysis of Existing Facilities

In an effort to utilize existing space efficently, Radiologic Technology has taken over rooms 4046, 4047 and 4049 in the Race Building. Although we are the only ones currently using it, we are open to other groups having access to these rooms as well. Please coordinate with the program director.

3.1 Develop Financial Resources

Radiologic Technology has actively applied for funding through CTE for various accessories and to update computer based learning software. Rad Tech has also written a grant proposal through Strong Workforce Program to fund the installation of a new x-ray room in Race 4047.

3.2 Serve our Diverse Communities

The faculty represents a great deal of diversity that reflects the college community of interest. Faculty have experience in the majority of the medical imaging disciplines; CT, MRI, radiation therapy, diagnostic imaging, mammography and fluoroscopy. Additionally, we have faculty who have experience supervising employees in these areas. Presently, we do not have faculty versed in sonography nor nuclear medicine. Faculty with experience in these areas would be a welcome resource. The program continues to try to locate and recruit current graduates or others who might be interested in teaching.

HR tells us that currently (Spring 2018) there are no pending applicants seeking a faculty position in radiologic technology.

3.3 Cultivate a Healthy Organization

The FT faculty of the program is doing his best to support, coach, and encourage faculty members to participate in professional development activities. The program director periodically disseminates educational and professional conference announcements to faculty. Additionally, each faculty member actively participates in Continuing Education, relevant to their individual areas of expertise, emerging educational technology as well as diagnostic and technological advances to Radiologic Sciences in general. In turn, faculty members share what they have learned by offering continuing education to our Clinical Instructors at our annual CI seminar.

3.4 Safety and Emergency Preparedness

As of April 2019:
Chad Delucca BSC , Valarie Garcia BSC,
Yvette Davis 3rd floor ASC and Rich Lehrer 2nd floor ASC

3.5 Establish a Culture of Sustainability

The primary faculty communication tool between faculty and students has become e-mail.

Spring 2018 - Student records are scanned and electronically archived rather than copying paper documents to be archived. Additionally PowerPoint presentations can be electronically sent to students eliminating the necessity of print copies. The use of laptop and tablet computers in our classroom courses is advocated. Finally, most faculty use SRJC computer based LMS Canvas for testing and grading archives.

The program director is not aware of any radiologic technology faculty members using paper based scantron testing for the current semester.

4.1a Course Student Learning Outcomes Assessment

All Rad Tech courses have been updated and approved by the Curriculum Review Committe within the past 6 years as per policy. These revisions are triggered by the accrediting agency and the State of California Public Health Department and reflect current trends in our industry. Courses not showing recent asscessment will be entered at the end of the 2018-2019 academic year.

1. Adapt and use this template for department tracking of SLO assessment and augmenting the SLO Assessment section of the PRPP.
2. Indicate which SLOs were assessed (“all,” “#1,3,4,” etc.)
3. Add columns with department-specific information if needed (method of assessment, comments on results, etc.)
4. If participating faculty have not yet been identified for an SLO assessment, write “TBA” and enter names later.
5. For “Year of Next Assessment,” keep in mind that the required cycle of formal assessment is every 6 years, but some courses may require more immediate follow-up or more frequent assessment based on the results.

CLUSTER	DEPARTMENT	DISCIPLINE	COURSE	COURSE STUDENT LEARNING OUTCOME (C-SLO)	ASSESSME ENTERED
HS	HSCI	RADT	RADT 100	2. Discuss the impacts of medical imaging on the general and special populations.	✓
HS	HSCI	RADT	RADT 102	1. Discuss radiographic principles and how they apply to mammographic imaging.	✓
HS	HSCI	RADT	RADT 102	2. List technical factors and positioning techniques that produce quality mammographic images while keeping patient radiation exposure to a minimum.	✓
HS	HSCI	RADT	RADT 102L	1. Apply radiographic principles in mammographic imaging.	✓
HS	HSCI	RADT	RADT 102L	2. Utilize technical factors and positioning techniques that produce quality mammographic images while keeping patient radiation exposure to a minimum.	✓
HS	HSCI	RADT	RADT 60	1. Ability to list the main functions of the x-ray tube on a diagram.	✓
HS	HSCI	RADT	RADT 60	2. Apply the principles of radiation protection in radiology environments.	✓
HS	HSCI	RADT	RADT 60	3. Summarize the personal traits and characteristics necessary of the radiologic technologist in the multicultural health care setting.	✓
HS	HSCI	RADT	RADT 61A	1. Competently perform radiographic procedures of the chest, abdomen, upper and lower extremities, shoulder, hips, and pelvis.	✓
HS	HSCI	RADT	RADT 61A	2. Practice safe radiation protection measures for patients, self, and others.	✓
HS	HSCI	RADT	RADT 61B	Competently perform radiographic procedures of the diges tract, urinary tract, vertebral column, ribs, and sterr	
HS	HSCI	RADT	RADT 61C	Competently perform radiographic procedures of the skull, facial bones, mandible, sinuses, and intracranial structures.	✓
HS	HSCI	RADT	RADT 63A	1. Evaluate the performance of digital radiographic systems.	

HS	HSCI	RADT	RADT 63A	2. Apply principles of radiation physics in the practice of general radiology.	
HS	HSCI	RADT	RADT 63A	3. Process and manipulate radiographic images for diagnostic quality.	
HS	HSCI	RADT	RADT 63B	1. Explain the effects of radiation exposure on human tissues.	
HS	HSCI	RADT	RADT 63B	2. Implement effective measures of radiation protection in any radiology department.	
HS	HSCI	RADT	RADT 63B	3. Evaluate the performance of radiographic systems in relation to radiation safety.	
HS	HSCI	RADT	RADT 64	1. List the responsibilities and scope of practice of a radiologic technologist.	✓
HS	HSCI	RADT	RADT 64	2. Define infection control as put in practice in Radiology.	✓
HS	HSCI	RADT	RADT 64	3. Describe the difference between medical and surgical asepsis and their practices.	✓
HS	HSCI	RADT	RADT 64L	1. Properly set up and work with sterile fields while maintaining proper aseptic techniques.	✓
HS	HSCI	RADT	RADT 64L	2. Handle patients using proper body mechanics and safe practices.	✓
HS	HSCI	RADT	RADT 64L	3. Perform patient care skills within the scope of practice of a radiologic technologist.	✓
HS	HSCI	RADT	RADT 65	1. Identify common pathologies on images	✓
HS	HSCI	RADT	RADT 65	2. Present literary review to medical professionals	✓
HS	HSCI	RADT	RADT 66	1. Manipulate equipment in special procedure rooms; operate fluroscopes, digital equipment, and computerized tomography.	✓
HS	HSCI	RADT	RADT 66	2. Become eligible to sit for the State fluoroscopy examination.	✓
HS	HSCI	RADT	RADT 66	3. Provide patient education in various aspects of special modalities in Radiology.	✓
HS	HSCI	RADT	RADT 66	4. Competently perform venipuncture, as permitted by the State of California.	✓

HS	HSCI	RADT	RADT 68	1. Display the necessary marketing and documentation skil achieve entry level employment as a radiologic technolo	
HS	HSCI	RADT	RADT 68	2. Review and assess readiness for the ARRT (American Reg of Radiologic Technologist) licensing examina	
HS	HSCI	RADT	RADT 71A	Operate radiographic imaging equipment, and position patients to perform radiographic examinations and procedures with minimum radiation exposure for the patient, self, and others.	✓
HS	HSCI	RADT	RADT 71B	Operate radiographic imaging equipment, and position patients to perform radiographic examinations and procedures with minimum radiation exposure for the patient, self, and others.	✓
HS	HSCI	RADT	RADT 71C	Operate radiographic imaging equipment, and position patients to perform radiographic examinations and procedures with minimum radiation exposure for the patient, self, and others.	✓
HS	HSCI	RADT	RADT 71D	At the intermediate/advanced level: Operate radiogra imaging equipment, and position patients to perf radiographic examinations and procedures with minir radiation exposure for the patient, self, and oth	
HS	HSCI	RADT	RADT 71E	Operate radiographic imaging equipment, and position pati to perform radiographic examinations and procedures minimum radiation exposure for the patient, self, and oth	
HS	HSCI	RADT	RADT 71F	1. Operate radiographic imaging equipment and acces devices, position patients; modify standard procedure accommodate for patient condition exposure factors, and o variables to perform radiographic examination and proced with minimum radiation exposure for the patient, self, oth	
HS	HSCI	RADT	RADT 71F	2. Perform tasks expected of an entry level radiol technologist as a collaborating member of a multidiscipli health care te	

HS	HSCI	RADT	RADT 98	Apply relevant research methodologies, achieve the learnir the selected topics, and provide reports or complete maste examinati

4.1b Program Student Learning Outcomes Assessment

Our students are learning didactically and clinically. Didactically, students are mostly served with all available modes of learning (sensory, lecture sessions, lab activities, and library like learning environment). Clinically, our students are gaining their hands-on experience at the local hospitals and clinics. Every semester, student learning outcomes are assessed with evaluation tools made available to health care providers in the community.

In addition, the program is under a constant assessment plan that evaluates whether the program is efficient in its teaching by assessing the outcomes of its students. This activity is completed by the employers and other members of the community of interest. Indeed, the results of this assessment plan helps identify areas of improvement. Although this is a continual process, the most recent change to Student Learning Outcome Assessment has been this year. To better assess student achievement, the program director and faulty collaboratively revised the semester clinical evaluation forms from 9 areas of evaluation to 10. The revision of terminology and addition of the extra area presents a more fair and realistic view of student progress. The Bi-Weekly progress report is also currently evolving to better identify student goals in both short term and long range. Upon review of the Student assessment forms, it was decided to compose more concise wording for and adjust benchmarks to accurately reflect student achievement and comply with new JRCERT accreditation standards. In regard to guidance received from the JRCERT, benchmarks have become more explicit. Our clinical partners have supported the process and contributed to the overall effort of this evolution.

4.1c Student Learning Outcomes Reporting

Type	Name	Student Assessment Implemented	Assessment Results Analyzed	Change Implemented
Course	Rad T 100	Spring 2013	Spring 2013	N/A
Course	Rad T 60	Fall 2013	Fall 2013	N/A
Course	Rad T 61.1 AL	Fall 2013	Fall 2013	N/A
Course	Rad T 61A	Fall 2013	Fall 2013	N/A
Course	Rad T 61B	Spring 2014	Spring 2014	N/A
Course	Rad T 61BL	Spring 2014	Spring 2014	N/A
Course	Rad T 61C	Summer 2014	Summer 2014	N/A
Course	Rad T 61CL	Summer 2014	Summer 2014	N/A
Course	Rad T 62AL	Fall 2012	Fall 2012	N/A
Course	Rad T 62BL	Spring 2013	Spring 2013	N/A
Course	Rad T 62CL	Summer 2013	Summer 2013	Summer 2015
Course	Rad T 63A	Spring 2014	Spring 2014	Spring 2015
Course	Rad T 63B	Fall 2012	Fall 2012	N/A
Course	Rad T 64	Fall 2013	Fall 2013	N/A
Course	Rad T 64L	Fall 2013	Fall 2013	N/A
Course	Rad T 65	Spring 2013	Spring 2013	N/A
Course	Rad T 66	Spring 2013	Spring 2013	N/A
Course	Rad T 68	Summer 2013	Summer 2013	N/A
Certificate/Major	Radiologic Technology	Summer 2014	Summer 2014	N/A

4.2a Key Courses or Services that address Institutional Outcomes

Course/Service	1a	1b	1c	2a	2b	2c	2d	3a	3b	4a	4b	5	6a	6b	6c	7
All clinical RADT courses	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

4.2b Narrative (Optional)

The performance of radiographic procedures requires the synthesis of the district institutional learning outcomes. In response to the college mandate for reviewing and reporting SLO's, Radiologic Technology is completely compliant with all courses as of this date. Additionally the certificate/major assessment was also filed in 2014.

October 2018

Based on some changes within the college structure and district educational code, we have evaluated some of the prequisite requirements for the program. This includes eliminating recency of on two of the four pre-requisite courses where it had been required and allowing newly created coursework to fufill our prequisite requiremnts on an equivalency basis.

5.0 Performance Measures

The program has met all but one benchmark of its most recent asessment plan. The course in which this becnchmark mark was not met is currnetly onging and will be reevaluated at the end of this semester. Data will be available in May of 2019. We will continue to monitor assessment plans and revise, as needed, on an ongoing basis, (annually at a minimum). Please refer to the chart below.

Santa Rosa Junior College Radiologic Technology Assessment Plan

Student Learning Outcomes 2017-

201
8

Program Goal 1: Students will be **clinically competent**.

OUTCOME 1.1	Measurement Tool	Student Benchmark	Assessment Frequency
Students will perform positioning skills with accuracy	Area E of the clinical evaluation form	Students will receive an average ≥ **8.5 on** the scale of 7.5 to 10.	- End of the 3rd semester - End of the 6th semester

Outcome 1.1	*Results*	*Comments/Action P*
Area E	***8.95 overall for cohort of 2019*** ***9.58 overall for cohort of 2018***	***Benchma*** **2019 =19 students** 6 students = 10.0 8 students = 9.5 3 students = 9.0 2 students = 8.0

OUTCOME 1.2	Measurement Tool 1	Student Benchmark	Assessment Freque
Students will utilize s kills in radiation protection	Area H of the clinical evaluation form	Students will receive an average ≥ 8.5 on the scale of 7.5 to 10.	- End of the 3rd sem - End of the 6th sem

Outcome 1.2 - Tool 1	*Results*	*Comments/Acti*
Area H	***9.23 overall for cohort of 2019*** ***9.92 overall for cohort of 2018***	***Benchr*** **2019 =19 students** 10 students = 10.0 7 students = 9.5 2 students = 9.0

OUTCOME 1.2	Measurement Tool 2	Student Benchmark	Assessme Frequenc
Students will utilize s kills in radiation protection	Practical final positioning skills evaluation	All students will receive scores ≥75% on the scale of 0-3 based on 3 projections. (9 pts. total)	End of the 3r semester

Outcome 1.2 – Tool 2	*Results*	*Comments/Ac*
RADT 61C	***100% of students scored 75% or higher summer 2018*** ***Class average = 7.53***	*Method & criteria chang* ***Benchmark met***

NOTE:

Consider the same cohort group and same end of semester Area H final clinical evaluation = 9.23.

61C instructor too harsh perhaps?

OUTCOME 1.3	Measurement Tool	Student Benchmark	Assessment Freq

Students will demonstrate proper equipment handling	Area D of the clinical evaluation form	Students will receive an average ≥ 8.5 on the scale of 7.5 to 10.	- End of the 3rd se - End of the 6th se
Outcome 1.3	***Results***		***Comments/Actio***
Area D	***9.13 overall for cohort of 2019*** ***9.81 overall for cohort of 2018***		***Benchmark m***
		2019 =19 students 10 students = 10.0 5 students = 9.5 2 students = 9.0 2 students = 8.5	

Program Goal 2: Students will demonstrate **critical thinking and adaptability**.

OUTCOME	Measurement Tool	Student Benchmark	Frequency	
2.1: Students will utilize critical thinking in recognizing image quality	Area F of the clinical evaluation form.	Students will receive an average ≥ 8.5 on the scale of 7.5 to 10.	- End of 3rd semester - End of the 6th semester	-
2.1: Students will utilize critical thinking in recognizing image quality	Radiation Physics lab final exam	An average rating of **85%** in all students' evaluations.	- End of the 2nd semester	

Outcome 2.1- Tool 1	***Results***	***Comments/A***
Area F	***8.60 overall for cohort of 2019*** ***9.42 overall for cohort of 2018***	***Benc*** **2019 =19 students** 3 students = 10.0 3 students = 9.5 9 students = 9.0 2 students = 8.5 1 student = 8.0 1 students = 7.5
Outcome 2.1- Tool 2	***Results***	***Comments/A***
RADT 63A section 5817	***83.58% overall – Spring 2018 = 19 students***	***Benchmark not met. Tes*** ***verbal to written assessm*** ***Will track and evaluate n***

OUTCOME 2.2	Measurement Tool	Student Benchmark	Assessment Frequency
2.2: Students will adapt to non-routine patients.	Area F of the clinical evaluation form.	Students will receive an average ≥ 8.5 on the scale of 7.5 to 10.	- End of the 3rd semester - End of the 6th semester
Outcome 2.2	***Results***		***Comments/Action P***

Area F	***8.60 overall for cohort of 2019 = 19 students*** ***9.42 overall for cohort of 2018 = 18 students***	***Benchmark met*** *Tracking Area F as of this report*

Program Goal 3: Students will **communicate effectively**.

OUTCOME	**Measurement Tool**	**Student Benchmark**	**Frequency**	**R**
- 3.1: Students will demonstrate good communication in th e clinical environment.	Area B of the clinical evaluation form.	-Students will receive an average ≥ 8.5 on the scale of 7.5 to 10.	- End of 3rd semester - End of the 6th semester	- Clinical ir
Outcome 3.1	***Results***			***Comments/A***
Area B	***9.08 overall for cohort of 2019*** ***9.83 overall for cohort of 2018***			***Benc*** **2019 =19 students** 9 students = 10.0 4 students = 9.5 5 students = 9.0 1 students = 8.5

OUTCOME	**Measurement Tool**	**Student Benchmark**	**Frequency**	
- 3.2: Students will demonstrate good **oral** communication.	Oral communication grading of the classes' project	- Students will receive an average ≥ **8.5** on the scale of 7.5 to 10	- End of 4th semester	-
Outcome 3.2				
Oral 63B ALARA proj ect	***9.13 class average Fall 2018*** ***19 students in the cohort ~ 14@ 9.0 & 5 @ 9.5***			***Benchi***

OUTCOME	**Measurement Tool**	**Student Benchmark**	**Frequency**	
- 3.3: Students will Demonstrate good **written** communication.	Written communication grading of the classes' projects	An average rating of **85%** in all students' evaluations.	- End of the 5th semester	- RT
Outcome 3.3	***Results***			***Comr***
RADT 65 written project	***91.56% class average Spring 2018***			***Be*** Scores for coho 5 students = 95 2 students = 94 4 students = 93 5 students = 90

		1 student = 88 1 student = 75

Program Goal 4: Students will exhibit **professionalism and ethics.**

OUTCOME	Measurement Tool	Student Benchmark	Frequency	R
- 4.1: Students will demonstrate professionalism & ethical decision making.	Area C of the clinical evaluation form.	-Students will receive an average ≥ 8.5 **on** the scale of 7.5 to 10.	- End of 3rd semester - End of the 6th semester	- Clinical in

Outcome 4.1	*Results*	*Comments/Acti*
Area C	***9.35 overall for cohort of 2019*** ***9.86 overall for cohort of 2018***	***Benchi*** **2019 =19 students** 13 students = 10.0 6 students = 9.5

OUTCOME	Measurement Tools	Student Benchmark	Frequency	
- 4.2: Students w ill demonstrate understanding of ethical decision making.	- RADT 60 ASRT Ethics Project & Test from an ASRT Directed Reading	- An average rating of **85%** in all students' evaluations on the Ethics exam of RADT 60.	- Annually	-

Outcome 4.2	*Results*	*Comments/Ac*
RADT 60	***Fall 2017 Class average = 93%***	***Bench*** ***2017 = 19 students*** ***5 students = 25*** ***7 students = 24*** ***3 students = 23*** ***2 students = 22*** ***1 student = 20*** ***1 student = 16***

Santa Rosa Junior College Radiologic Technology Assessment Plan
Program Effectiveness Measures
2017 – 2018

Program Goal: To maintain the program effectiveness by reaching benchmarks set in these areas: completion and pass rates, employment rates, and employer satisfaction.

OUTCOME	Measurement Tool	Program Benchmark	Frequency	
1: Consistent and acceptable completion rate.	Completion rate results	The program will graduate at least 80% of its students.	Annually at graduation	

Outcome 1	Results	Comments/Act
Class of 2016-2018	*18 of 20 (90%) completed the program*	***Benchmark*** 1 student voluntarily withdrew from dismissed for failure in didactic and c

OUTCOME	Measurement Tool	Program Benchmark	Frequency
2: Graduates will pass the credentialing exam.	ARRT exam results	85% of program graduates will pass on the first attempt.	Annually

Outcome 2	Results	Comments/Acti
Class of 2016 - 2018	*16 of 18 passed on first attempt = 89%*	***Mean cohort score = 85.0%***

OUTCOME	Measurement Tool	Program Benchmark	Frequency
3: Graduates will pass credentialing exam at o above national average.	ARRT exam scores	ARRT exam score will be at or above the national average.	Annually

Outcome 3	Results	Comm
Class of 2016-2018	***Cohort overall average = 85.1*** ***88.9% of the class passed on the first attempt*** ***(National average = 83.6)***	***B*** Students score

OUTCOME	Measurement Tool	Program Benchmark	Frequ
4: Graduates will become employed within 12 months of after graduation (5-year average).	Graduate survey results	Of those seeking employment, 75% of program graduates will become employed within 12 months after graduation.	Annual ye

Outcome 4	Results	Comments
12 month employment	***9/9 = 100% ~ 7 of 7 responses polled class of 2017*** ***5 year average 90.5% (no graduates 2014)***	***Benchm***

OUTCOME	Measurement Tool	Program Benchmark	Frequ

5. Graduates will be satisfied with their education.	Graduate survey	85% of graduates will be satisfied with their education	Annual month gradu sur

Outcome 4	Results	Comments
2017 graduate satisfaction	***7 of 7 Strongly agree***	***Benchmark met***

OUTCOME	Measurement Tool	Program Benchmark	Frequency
6: Employers will be satisfied with their employee's education	Employer survey .	85% of employers will be satisfied with graduate employees education	Annually 12 months postgraduatic survey

Outcome 6	Results			Comm
2017 employer survey *5 responses*		Agree	St Agree	100% of emplo
	Patient care	1	4	No neutral, disa
	Ethics	1	4	
	Professionalism		5	
	Communication	1	4	
	Critical Thinking	3	2	
	Clinical Competency	3	2	***Ben***
	Reliability and Consistency	1	4	
	SRJC has effectively prepared	2	3 I	
	am satisfied with the educational preparation of SRJC	2	3	

5.1 Effective Class Schedule: Course Offerings, Times, Locations, and Delivery Modes (annual)

The program is effective in its course offerings in terms of location and times. The program director has modified the schedule to regiment the first year and second year students to specific days on campus, and in clinical so that they do not compete with one another. This has also required modifying the timeframe when classes are scheduled with a goal of offering classes in the Race Building. For example: we moved the Pathology course from Spring semester to Fall. Our program has now re-written CORs for the Physics, Introduction to Radiologic Technology and Survey of Medical Imaging courses to directly reflect industry technological advances, promoting a filmless environment and eliminating references to the obsolete film-screen model that inculded use of a darkroom and harsh processing chemistry.

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.1 Student Headcounts The number of students enrolled in each Discipline at first census (duplicated headcount).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	58	160	119	73	157	107	66	155	1

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	0	0	0	0	0	0	0	0	

Other Locations (Includes the PSTC, Windsor, and other locations)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	32	38	37	37	40	59	38	38	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	90	198	156	110	197	166	104	193	1

5.2a Enrollment Efficiency

Radiologic Technology is ONLY taught on Santa Rosa campus.

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.1 Student Headcounts The number of students enrolled in each Discipline at first census (duplicated headcount).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	58	160	119	73	157	107	66	155	1

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.2a Enrollment Efficiency The percentage of seats filled in each Discipline at first census based on class limit (not room size).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	64.4%	106.2%	94.4%	81.1%	102.1%	85.6%	73.3%	100.7%	86.

5.2b Average Class Size

The program's class size is limited to no more than 20. 20 students start at the beginning of each fall semester.

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.2b Average Class Size The average class size in each Discipline at first census (excludes cancelled classes).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	14.5	22.0	19.7	18.3	21.1	15.3	16.5	20.9	1

5.3 Instructional Productivity

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.3 Instructional Productivity The ratio of Full-Time Equivalent Students (FTES) to Full-Time Equivalent Faculty (FTEF) in each Discipline at first census.

Santa Rosa Campus

Radiologic Technology		X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
	FTES	5.60	17.72	14.17	5.14	17.63	12.94	5.07	17.29	12.7
	FTEF	0.49	1.61	1.33	0.49	1.66	1.29	0.50	1.69	1.2
	Ratio	**11.35**	**10.97**	**10.68**	**10.42**	**10.62**	**10.02**	**10.13**	**10.24**	**9.9**

5.4 Curriculum Currency

Periodic revision and update of radiologic technology coursework has occurred most recently in the Spring 2019. All rad tech courses are within their approved limits of periodic review. Please refer to section 5.1 for a detailed descrpition.

5.5 Successful Program Completion

Radiologic Technology - FY 2013-18 (plus current FY Summer and Fall)

Coursework is only held at Santa Rosa Campus.

	Total number of Graduates	
2018	90%	18/20
2017	100%	20/20
2016	85%	17/20
2015	80%	16/20
2014	No graduating class	
2013	100%	16/16
5 year average	**90.6%**	**87/96**

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.6b Successful Course Completion The percentage of students receiving a grade of A,B,C, or CR in each Discipline (duplicated headcount).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	93.1%	90.0%	85.7%	95.8%	91.1%	95.3%	95.5%	95.4%	88.

5.6 Student Success

Radiologic Technology - FY 2013-18 (plus current FY Summer and Fall)

Coursework is only held at Santa Rosa Campus.

	ARRT National Board Certifying Exam Pass Rate	
Graduation year	% passing on first attempt	Passing on 1st attempt
2018	89%	16/18
2017	100%	20/20
2016	100%	17/17
2015	87.5%	14/16
2014	0% No Graduating Class	0/0
2013	87.5%	14/16
5 year average	**93.1%**	**81/87**

There have been a small percentage of students who successfully passed the National Board Certifying Exam on the second attempt.

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.6a Retention The percentage of students receiving a grade of A,B,C,D,CR, or I in each Discipline (duplicated headcount).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	93.1%	93.8%	89.1%	95.8%	93.0%	95.3%	97.0%	96.0%	92.

5.6b Successful Course Completion The percentage of students receiving a grade of A,B,C, or CR in each Discipline (duplicated headcount).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	93.1%	90.0%	85.7%	95.8%	91.1%	95.3%	95.5%	95.4%	88.

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.

Other Locations (Includes the PSTC, Windsor, and other locations)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	94.1%	97.4%	100.0%	100.0%	97.5%	96.6%	100.0%	100.0%	100.

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	93.5%	91.5%	89.1%	97.2%	92.4%	95.8%	97.1%	96.3%	92.

5.6c Grade Point Average The average GPA in each Discipline (UnitsTotal / GradePoints).

Santa Rosa Campus

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	3.50	3.04	3.26	3.50	3.14	3.27	2.98	3.30	3.

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.

Other Locations (Includes the PSTC, Windsor, and other locations)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	3.91	3.91	3.77	3.73	3.78	3.62	3.91	3.78	3.

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2015	F2015	S2016	X2016	F2016	S2017	X2017	F2017	S2018
Radiologic Technology	3.74	3.35	3.50	3.63	3.41	3.46	3.47	3.49	3.

5.7 Student Access

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2017-18 (plus current FY Summer and Fall)

5.7a Students Served - by Ethnicity The number of students in each Discipline at first census broken down by ethnicity (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

Radiologic Technology	Ethnicity	2015-16	Percent	2016-17	Percent	2017-18	Percent	2
	White	240	55.8%	234	50.6%	203	45.7%	
	Asian	25	5.8%	9	1.9%	16	3.6%	
	Black	18	4.2%	12	2.6%	19	4.3%	
	Hispanic	108	25.1%	168	36.4%	174	39.2%	
	Native American	0	0.0%	0	0.0%	0	0.0%	
	Pacific Islander	1	0.2%	1	0.2%	0	0.0%	
	Filipino	10	2.3%	9	1.9%	13	2.9%	
	Other Non-White	24	5.6%	23	5.0%	15	3.4%	
	Decline to state	4	0.9%	6	1.3%	4	0.9%	
	ALL Ethnicities	**430**	**100.0%**	**462**	**100.0%**	**444**	**100.0%**	

5.7b Students Served - by Gender The number of students in each Discipline at first census broken down by gender (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

Radiologic Technology	Gender	2015-16	Percent	2016-17	Percent	2017-18	Percent	2
	Male	152	35.3%	168	36.4%	127	28.6%	
	Female	278	64.7%	292	63.2%	317	71.4%	
	Unknown	0	0.0%	2	0.4%	0	0.0%	
	ALL Genders	**430**	**100.0%**	**462**	**100.0%**	**444**	**100.0%**	

5.7c Students Served - by Age The number of students in each Discipline at first census broken down by age (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

Radiologic Technology	Age Range	2015-16	Percent	2016-17	Percent	2017-18	Percent	2
	0 thru 18	7	1.6%	5	1.1%	3	0.7%	
	19 and 20	30	7.0%	23	5.0%	39	8.8%	
	21 thru 25	153	35.6%	207	44.8%	141	31.8%	
	26 thru 30	95	22.1%	81	17.5%	133	30.0%	
	31 thru 35	74	17.2%	52	11.3%	62	14.0%	
	36 thru 40	26	6.0%	36	7.8%	31	7.0%	
	41 thru 45	22	5.1%	31	6.7%	21	4.7%	
	46 thru 50	16	3.7%	14	3.0%	10	2.3%	
	51 thru 60	6	1.4%	13	2.8%	4	0.9%	
	61 plus	1	0.2%	0	0.0%	0	0.0%	
	ALL Ages	**430**	**100.0%**	**462**	**100.0%**	**444**	**100.0%**	

5.8 Curriculum Offered Within Reasonable Time Frame

The program curriculum and clincial instruction are offered during business hours. The clinical instruction portion adheres to strict student supervision under the State Law and JRCERT requirements.

5.9a Curriculum Responsiveness

The program curriculum reflects all current changes that are regulated by the State of California Minimum Standards in Radiologic Technology, as well as the curricular requirements of the American Registry and American Society of Radiologic Technologists. Please refer to section 5.1 for examples.

5.9b Alignment with High Schools (Tech-Prep ONLY)

The program curriculum is not directly articulated with the local High Schools. The program director does offer outreach to HS classes who request a presentation on the profession of radiologic technology.

5.10 Alignment with Transfer Institutions (Transfer Majors ONLY)

The program prerequisites are articulated with ten other community colleges, eighteen independent colleges and universities and nineteen out of state colleges and universities. Additionally, admissions and records can access any college data that any student may request.

5.11a Labor Market Demand (Occupational Programs ONLY)

The summary of the most recent employment statistics can be found in the chart below.

	Graduate Employment Rate measured at 12 months post-graduation	
Graduate class year	% graduates employed	Population
2018	89% (preliminary data)	18
2017	100%	20 (7 employed -
2016	100%	17 (11 employed
2015	100%	16 (9 employed -
2014	No Graduating Class	
2013	69%	16 (9 employed -
5 year Average	90**%**	**36 employed /**

5.11b Academic Standards

The JRCERT has visited our program for our periodic site visit and accreditation renewal. Their preliminary report indicated that we were substatinally compliant with standards of the JRCERT with 2 minor exceptions:

- That we did not have a formal process for sharing student feedback on the clinical site and the clinical instructor (hospital supervisor employee);
- That the JRCERT was not clearly identified as a last resort for grievence resolution.

We have addressed those shortcomings and have documented our resolution as of April 1, 2015. The JRCERT has awarded an eight (8) year accreditation effective December 2014.

The Interim report was sumitted on time in December 2018. JRCERT requested additonal information in March 2019. This has been submitted and we are awaitng the outcome. The next scheduled periodic site visit will be fourth quarter 2022.

6.1 Progress and Accomplishments Since Last Program/Unit Review

Rank	Location	SP	M	Goal	Objective	Time Frame	Progress to Date
0001	Santa Rosa	01	01	New DR X-ray room	We were awarded a grant through the Strong Workforce program. A vendor has been selected and installation scheduled to begin end of May 2019 with a Fall semester 2019 completion date target.	2018-2019	A deposit has been paid, equipment is on order and we are awaitng confirmation from the vendor for demolition of the exsisting room and installation of new DR equipment.
0002	Santa Rosa	01	05	Additional clinical site affiliations	Enough clinical affiliated sites to place students	2016 and beyond	A full time position in concert with additional clinical student placement sites would allow growth of our program.

6.2b PRPP Editor Feedback - Optional

4/10/18

This is Rich.

I have made our Dean aware that I will continue putting a request for a full time faculty clinical coordinator in our PRPP this year as I have for the past several. I do this to reinforce this need has continued for many years. Up to now we have been blessed with relatively compliant students legitimately concerned with taking our program seriously and becoming radiologic technologists. I am sure that the vast majority of our future students will be similarly disposed. My concern is that we will get someone in the program who does not have the high integrity to which our program has become accustomed, and who has their own agenda. My concern is that this student may be placed in a clinical site that has relatively lax supervision for students, and suddenly someone gets hurt. My feeling is that a full time clinical coordinator who has only this program as employment will better serve the needs of that student, our program and the clinical site, than will a part time or adjunct faculty clinical coordinator who is equally distracted with our program and his/her full time employment.

A job description for faculty clinical coordinators according to Standard 3.8, JRCERT is to provide:

Full-time Clinical Coordinator:

Correlates clinical education with didactic education,

Evaluates students,

Participates in didactic and/or clinical instruction,

Supports the program director to help assure effective program operation,

Coordinates clinical education and evaluates its effectiveness,

Participates in the assessment process,

Cooperates with the program director in periodic review and revision of clinical course materials,

Maintains current knowledge of the discipline and educational methodologies through continuing professional development, and

Maintains current knowledge of program policies, procedures, and student progress.

6.3a Annual Unit Plan

Rank	Location	SP	M	Goal	Objective	Time Frame	Resources Required
0001	Santa Rosa	01	01	New DR X-ray room	We have proposed a grant through the Strong Workforce Program to obtain a new x-ray room replacement for the existing one nearly 40 years old.	2018-2019	Our grant proposal has been reviewed favorably for up to $200,000.
0002	Santa Rosa	01	05	Additional clinical site affiliations	Enough clinical affiliated sites to place students	2016 and beyond	A full time positioin in concert with additional clinical student placement sites would allow growth of our program.