Santa Rosa Junior College

Program Resource Planning Process

Radiologic Technology 2023

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, #3 and #4.

Mission

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

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

The American Registry of Radiologic Technologists (ARRT) requires 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 (2021) indicates that our 5 year average employment rate for our graduates is 96% 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 22 clinincal sites within an 120 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

2022-2023**:**

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. Further, we now have a full-time clinical coordinator who will also need to visit students and facilities and therefore an increase funding for mileage is even more critical.

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.

Radiologic Technology - FY 2021-22

2.1 Fiscal Year Expenditures

Santa Rosa Campus

Expenditure Category	Unrestricted Funds	Change from 2020-21	Restricted Funds	Change from 2020-21	Total	Change from 2020-21
Faculty payroll	$183,282.00	110.60%	$0.00	0.00%	$183,282.00	110.60%
Adjunct payroll	$217,112.02	-13.63%	$0.00	0.00%	$217,112.02	-13.63%
Classified payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
STNC payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
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)	$90,548.40	52.01%	$0.00	0.00%	$90,548.40	52.01%
Supplies (4000's)	$1,858.55	18.96%	$0.00	-100.00%	$1,858.55	18.01%
Services (5000's)	$2,175.40	-18.92%	$0.00	0.00%	$2,175.40	-18.92%
Equipment (6000's)	$0.00	0.00%	$3,968.26	0.00%	$3,968.26	0.00%
Total Expenditures	**$494,976.37**	**23.06%**	**$3,968.26**	**>1000%**	**$498,944.63**	**24.05%**

Petaluma Campus (Includes Rohnert Park and Sonoma)

Expenditure Category	Unrestricted Funds	Change from 2020-21	Restricted Funds	Change from 2020-21	Total	Change from 2020-21
Faculty payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Adjunct payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Classified payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
STNC payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
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)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Supplies (4000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Services (5000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Equipment (6000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Total Expenditures	**$0.00**	**0.00%**	**$0.00**	**0.00%**	**$0.00**	**0.00%**

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

Expenditure Category	Unrestricted Funds	Change from 2020-21	Restricted Funds	Change from 2020-21	Total	Change from 2020-21
Faculty payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Adjunct payroll	$3,009.00	-45.27%	$0.00	0.00%	$3,009.00	-45.27%
Classified payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
STNC payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
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)	$588.60	-43.01%	$0.00	0.00%	$588.60	-43.01%
Supplies (4000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Services (5000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Equipment (6000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Total Expenditures	**$3,597.60**	**-44.91%**	**$0.00**	**0.00%**	**$3,597.60**	**-44.91%**

Expenditure Totals

Expenditure Category	Amount	Change from 2020-21	District Total	% of District Total
Total Expenditures	$502,542.23	22.94%	$0.00	0.00%
Total Faculty Payroll	$403,403.02	17.30%	$0.00	0.00%
Total Classified Payroll	$0.00	0.00%	$0.00	0.00%
Total Management Payroll	$0.00	0.00%	$0.00	0.00%
Total Salary/Benefits Costs	$494,540.02	22.26%	$0.00	0.00%
Total Non-Personnel Costs	$8,002.21	87.94%	$0.00	0.00%

2.1b Budget Requests

Rank	Location	SP	M	Amount	Brief Rationale
0001	Santa Rosa	02	01	$3,500.00	To cover travel cost for clinical instructors which has increased due to increased fuel cost.
0002	Santa Rosa	04	01	$3,500.00	Budget to affiliate with clinical sites as those opportunities become available.
0003	Santa Rosa	04	07	$2,000.00	Annual X-ray room annual radiation safety and performance check to be accomplished yearly per State of CA mandate.
0004	Santa Rosa	04	07	$2,000.00	Annual Dosimeter calibration for radiation safety monitoring. Cost of calibration service is $1640 in 2020.

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 2020-2021;
A f/t clinical coordinator position is requested and approved for hiring this past year. We incredibly pleased with this contract faculty hire as we had been requesting this position for the past 8 years.

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 2021-22

2.2 Fiscal Year Employee Data and Calculations

Employee Head Counts

Employee Category	Count	Change from 2020-21	District Total	% of District Total
Contract Faculty	2	100.00%	0	0.00%
Adjunct Faculty	7	0.00%	0	0.00%
Classified Staff	0	0.00%	0	0.00%
STNC Workers	0	0.00%	0	0.00%
Student Workers	0	0.00%	0	0.00%
Mgmt/Admin/Dept Chair	0	0.00%	0	0.00%

Employee FTE Totals

FTE Category	FTE	Change from 2020-21	District Total	% of District Total
FTE-F - Faculty	5.1764	3.53%	0.0000	0.00%
FTE-CF - Contract Faculty	2.0000	100.00%	0.0000	0.00%
FTE-AF - Adjunct Faculty	3.1764	-20.59%	0.0000	0.00%
FTE-C - Classified	0.0000	0.00%	0.0000	0.00%

FTE-ST - STNC	0.0000	0.00%	0.0000	0.00%
FTE-SS - Support Staff	0.0000	0.00%	0.0000	0.00%
FTE-SW - Student Workers	0.0000	0.00%	0.0000	0.00%
FTE-M - Management	0.0000	0.00%	0.0000	0.00%
FTE-DC - Department Chairs	0.0000	0.00%	0.0000	0.00%

Student Data

Data Element	Value	Change from 2020-21	District Total	% of District Total
FTES-CR - Credit	106.5960	4.80%	0.0000	0.00%
FTES-NC - Non-Credit	0.0000	0.00%	0.0000	0.00%
FTES - combined	106.5960	4.80%	0.0000	0.00%
Students Enrolled/Served	663	11.99%	0	0.00%

Calculations

Data Element	Value	Change from 2020-21	District Total	% of District Total
FTE-S : FTE-F	20.5926	1.23%	0.0000	0.00%
FTE-AF : FTE-CF	1.5882	-60.29%	0.0000	0.00%
FTE-F : FTE-SS	0.0000	0.00%	0.0000	0.00%
FTE-F : FTE-M	0.0000	0.00%	0.0000	0.00%
FTE-SS : FTE-M	0.0000	0.00%	0.0000	0.00%
FTE-ST : FTE-C	0.0000	0.00%	0.0000	0.00%
Average Faculty Salary per FTE-F	$77,930.78	13.30%	$0.00	0.00%
Average Classified Salary per FTE-C	$0.00	0.00%	$0.00	0.00%
Average Management Salary per FTE-M	$0.00	0.00%	$0.00	0.00%
Salary/Benefit costs as a % of total budget	98.41%	-0.56%	0.00%	0.00%
Non-Personnel $ as a % of total budget	1.59%	52.86%	0.00%	0.00%
Restricted Funds as a % of total budget	0.79%	>1000%	0.00%	0.00%
Total Unit Cost per FTE-F	$97,082.83	18.75%	$0.00	0.00%
Total Unit Cost per FTE-C	$0.00	0.00%	$0.00	0.00%
Total Unit Cost per FTE-M	$0.00	0.00%	$0.00	0.00%
Total Unit Cost per FTE-S	$4,714.46	17.31%	$0.00	0.00%
Total Unit Cost per student served/enrolled	$757.98	9.78%	$0.00	0.00%

2.2a Classified Positions Employees paid from a Classified OBJECT code

Name Last	First	Position	Hours	FTE
<< No Employees >>				

2.2b Management/Confidential Positions Employees paid from a Management/Confidential OBJECT code

Name Last	First	Position	Hours	FTE
<< No Employees >>				

2.2c STNC Workers Employees paid from an STNC OBJECT code

Name Last	First	Position	Hours	FTE
<< No Employees >>				

2.2d Student Employees Employees paid from a Student Employee OBJECT code

Name Last	First	Position	Hours	FTE
<< No Employees >>				

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
Contract faculty positions	There are presently 2 contract faculty on the roster. 1 teaches in the classroom as well as lab and takes on program director responsibilites. 1 works as lead clinical coordiantor and teaches in the classroom as well as lab.
Associate faculty positions	There are presently 7 active associate faculty on the roster. 1 associate teaches in the classroom and takes clinical coordinator responsibilities. 4 associates work soley as clinical coordinators. 2 associates teach in class &/or lab only.

2.3b Full-Time and Part-Time Ratios

Discipline	FTEF Reg	% Reg Load	FTEF Adj	% Adj Load	Description
Radiologic Technology	2.0000	0.0000	1.9900	0.0000	

2.3c Faculty Within Retirement Range

Of the core radiologic technology faculty, three of nine (33% of the RT faculty) are within retirement age. One is full time faculty and two are associate faculty.

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

(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 associate instructors.

Radiologic Technology - FY 2021-22

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

Name Last	First	Position	Hours	HR FTE	DM FTE
Alander	Tammy	Faculty	0.00	1.0000	0.0000
McLarty	Christine	Faculty	0.00	1.0000	0.0000
Totals			**0.00**	**2.0000**	**0.0000**

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

Name Last	First	Position	Hours	FTE
Alander	Tammy		44.75	0.9505
Diehl	Keith		243.50	0.2833
Maslow	Rene		1.00	0.1921
McCann	Janet		448.00	0.1417
Olszewski	Paul		403.26	1.0000
Patterson	Bonnie		488.50	0.6088
Robertson	Joanne		457.75	0.0000
Totals			**2086.76**	**3.1764**

2.3e Faculty Staffing Requests

Rank	Location	SP	M	Discipline	SLO Assessment Rationale
0001	Santa Rosa	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 year, there are 3.0 hour weekly labs associated with each of their Positioning 1 (RADT61A), Positioning 2 (RADT61B) and Positioning 3 (RADT 61C) courses. These are designed to give all students equitable opportunity to practice and to make mistakes while being guided by faculty and student proctors prior to interacting with actual patients in a hospital setting. The current ratio is 1 instructor to 11 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, 63 positions in the spring semester and 35 positions in the summer. 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 1:11 down to 1:6 as well as increases 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 semesters = 4.7059 for fall, 4.7059 in the spring and 4.7059 in the summer. The instructor of record can serve as the other lab instructor.

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

2022-2023- Priorities in descending order

Catella 6.0 software for xray lab PACS system. (PACS system is how images that students and instructors produce are seen in the x-ray lab). This software will ensure that students are able to view and critique their produced images in a manner compatible to what is seen in a clinical setting and in accordance with industry standards.

N95 Respirator Fit Testing Kits. As a result of the COVID pandemic, our clinical facilty partners now requires that each student have a properly fitted N95 respirator mask prior to beginning clinical training rotations. As a proactive way to comply with facility infection control practices and ensure student safety students are fitted tested on campus during their first week in the program. Our program also shares these kits with the nursing program for the ADN students. We currently do not have enough kits to accomodate all of our needs and need to purchase 2 more kits.

Carestream DR imaging plate. (Direct Digital Radiography plates are the x-ray sensors that have replaced conventional and obsolete film-screen). DR plates are necessary to produce radiographs. There is currently only one plate available for use in the xray lab and no replacement should this malfunction, get dropped or break.

Enema adminstration simulators. These are used in demonstration and practice for students to acheive required level of comptency in patient care skills lab. The simulator that is currently used is approximately 15 years old, has been used by multiple classes and is no longer functional.

Coated radiography positioning sponge sets, table pads and sandbags. These are all used in lab for demonstrating and practicing postioning techniques for patient exams. Most of the items currently being used have tears and are 25 years old. Several are not being used at this time because the material cannot be disinfected which hinders quality learning.

Cross table x-ray plate/cassette holders. These are used in demonstration and practice for students to acheive required level of comptency for trauma and surgical radiography in positioning skills labs. There is currently one cassette holder, that is 20 years old and is no longer fully functional, being shared between both labs.

Stoarge/display cabinets for x-ray anatomical phantoms and accessory x-ay equipment. There is no specific place to store phantoms and equipment that is used in lab. Items are often misplaced or broken due to not being store properly. Cabinets would allow materials to be safely stored when not in use, organized, and readily accessible.

55" digital image display and installation of power and data to be used for images that are directly related to the Radiologic Technology program. Cost estimate includes a protective

enclosure to prevent damage to the equipment. The display can be updated on a regular basis to provide both historical and current data regarding the RT program. It has been suggested that funding could be provided through Measure H funds.(Although this has been previously approved, the product has not yet been recieved nor installed as requested).

Proctorio, Respondus or similar software. These programs help protect the integrity of online exams. This type of software was availalbe previously and were useful tools for instructors. It would be beneficial to reinstate licenses and prevent academic dishonesty.

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	Catella 6.0 software for PACS System.	1	$4,000.00	$4,000.00	Tammy Alander	4047	Tammy Alander
0002	Santa Rosa	01	01	Carestream DR Imaging Plate	2	$1,200.00	$2,400.00	Tammy Alander	4046/4047	Tammy Alander
0003	Santa Rosa	01	01	Enema Administration Simulator	2	$950.00	$1,900.00	Tammy Alander	4046/4047	Tammy Alander
0004	Santa Rosa	01	01	Coated Radiographic Positioning Sponge Set	2	$850.00	$1,700.00	Tammy Alander	4046/4047	Tammy Alander
0005	Santa Rosa	01	01	Cross Table X-ray Plate/Cassette Holder	2	$450.00	$900.00	Tammy Alander	4046/4047	Tammy Alander
0006	Santa Rosa	01	01	Radiolucent Table Pad	2	$550.00	$1,100.00	Tammy Alander	4046/4047	Tammy Alander
0007	Santa Rosa	01	01	Radiographic Positioning Sandbag set	1	$300.00	$300.00	Tammy Alander	4046/4047	Tammy Alander
0008	Santa Rosa	04	06	Storage/Display cabinets for anatomical phantoms and x-ray equipment	2	$1,400.00	$2,800.00	Tammy Alander	4046/4047	Tammy Alander

2.4d Non-Instructional Equipment and Technology Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Santa Rosa	01	01	N95 Respirator Fit Testing Kits	2	$600.00	$1,200.00	Tammy Alander	4046/4047	Tammy Alander
0002	Santa Rosa	04	06	55” digital image display and installation of power and data	1	$5,000.00	$5,000.00	Tammy Alander	4047/4046	Tammy Alander
0003	Santa Rosa	02	06	Proctorio/Respondus for Canvas courses	1	$8,000.00	$8,000.00	Tammy Alander	HLRC	Tammy Alander

2.4f Instructional/Non-Instructional Software Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Santa Rosa	04	06	Catella 6.0 PACS software	1	$4,000.00	$4,000.00	Tammy Alander	4047	Tammy Alander 4346
0002	Santa Rosa	02	01	Proctorio/Respondus	1	$8,000.00	$8,000.00	Tammy Alander	4074	Tammy Alander 4346

2.5a Minor Facilities Requests

Rank	Location	SP	M	Time Frame	Building	Room Number	Est. Cost	Description

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 Academic Quality

3.2 Student Success and Support

Both the RT faculty and our enrolled students come from a wide variety of backgrounds and ethnicities that reflects the college community of interest. There is an increasing number of bilingual, re-entry, and first generation students in our program. Upon graduation, these students will build a stronger workforce that is better equipped to provide quality, culturally competent, care, for all but, most especially, to the increasing number of non-English speaking patients in medical facilities.

Faculty have experience in the majority of the medical imaging disciplines; CT, MRI, radiation therapy, diagnostic imaging, mammography and fluoroscopy. The knowledge and expertise comes from practical experience in truama hospitals, small hospitals, outpatient imaging facilities, orthopedic specialties, urgent care centers and the military. Additionally, we have faculty who have experience in management and supervising employees in these areas. Presently, we do not have facultywho are well-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.

3.3 Responsiveness to Our Community

The FT faculty of the program actively 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 Campus Climate and Culture

As of April 2020:
Chad Delucca BSC , Valarie Garcia BSC,
Yvette Davis 3rd floor ASC and Tammy Alander 2nd floor ASC

4.1a Course Student Learning Outcomes Assessment

All Rad Tech courses have been updated this semester and are in the approval process through the Curriculum Review Committe. These revisions are triggered by the accrediting agency, JRCERT, the national board certifying agency, ARRT, and the State of California Public Health Department- Radioligoc Health Branch, CDPH-RHB, and reflect current trends in our industry.

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.

C-SLO Assessment Tracking Document

14	37	132	1,914 Courses	5,386 C-SLOs Tracked	May 2023
CLUSTER	DEPARTMENT	DISCIPLINE	COURSE	COURSE STUDENT LEARNING OUTCOME (C-SLO)	ASSESSMENT ENTERED
HS	HSCI	RADT	RADT 100	1. Compare and contrast various career opportunities in medical imaging.	✓
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 digestive tract, urinary tract, vertebral column, ribs, and sternum.		✓	
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 radiographic and cross-sectional images.	✓
HS	HSCI	RADT	RADT 65	2. Present literature review to medical professionalsusing the Amrican Medical Association (AMA) style.	✓
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 skills to achieve entry level employment as a radiologic technologist.	
HS	HSCI	RADT	RADT 68	2. Review and assess readiness for the ARRT (American Registry of Radiologic Technologist) licensing examination.	
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 including fluoroscopy, and position patients to perform radiographic examinations and procedures with minimum radiation exposure for the patient, self, and others.	✓
HS	HSCI	RADT	RADT 71C	At an increased level of competency, 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	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 71E	Using fundamental and advanced skills to 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 71F	1. Operate radiographic imaging equipment and accessory devices, position patients; modify standard procedures to accommodate for patient condition exposure factors, and other variables to perform radiographic examination and procedures with minimum radiation exposure for the patient, self, and others.
HS	HSCI	RADT	RADT 71F	2. Perform tasks expected of an entry level radiologic technologist as a collaborating member of a multidisciplinary health care team.
HS	HSCI	RADT	RADT 98	Describe the relevance of current topics as applied to the field of radiologic services. Explain how the specific topic enriches learning.

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. This is a continual process, that is reviewed and revised each year. To better assess student achievement, the program director and faculty collaboratively revised the semester clinical evaluation forms from 9 areas of evaluation to 10. The revision of terminology and addition of the extra area has proven to present 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

Type	Name	Student Assessment Implemented	Assessment Results Analyzed	Change Implemented
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.

Based on some changes within the college structure and district educational code, we have evaluated some of the prequisite requirements for the program. There will be upcoming changes to the Math prerequisites based on AB705, effective 2023.

5.0 Performance Measures

The program has met all benchmarks 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 2022. 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 2021 - 2022

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

OUTCOME 1.1	**Measurement Tool**	**Student Benchmark**	**Assessment Frequency**	**Responsible Authors**
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	- Clinical instructors and staff
Outcome 1.1	***Results***		***Comments/Action Plan***	
Area E	***overall for cohort of 2023*** ***96.5% overall for cohort of 2021***		***Benchmark met*** **2023 = 22 students** 5 students = 10.0 12 students = 9.5 1 students = 9.0 4 student = 8.5	**2022 = 22 students** 11 students = 10.0 4 students = 9.5 1 student = 8.5 1 student = 7.5

OUTCOME 1.2	**Measurement Tool 1**	**Student Benchmark**	**Assessment Frequency**	**Responsible Authors**
Students will utilize skills 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 semester - End of the 6th semester	- Clinical instructors and staff
Outcome 1.2 - Tool 1	***Results***		***Comments/Action Plan***	

Area H	***96.4% overall for cohort of 2022*** ***97.9% overall for cohort of 2021***		***Benchmark met*** **2022 =22 students** 13 students = 10.0 4 students = 9.5 3 students = 9.0 2 student = 8.5	**2021 = 17 students** 15 students = 10.0 1 students = 8.5 1 student = 8.0
OUTCOME 1.2	**Measurement Tool 2**	**Student Benchmark**	**Assessment Frequency**	**Responsible Authors**
Students will utilize skills in radiation protection	Practical final positioning skills evaluation	All students will receive scores **≥75%** on the scale based on 3 projections. (48points possible).	End of the 3rd semester	RT 61 C instructors
Outcome 1.2 - Tool 2	***Results***		***Comments/Action Plan***	
RADT 61C	***97% overall for cohort of 2021***		***Benchmark met*** **2021 =18 students** 8 students = 48 1 student = 47 5 students = 46 3 students = 45 1 student = 42	

OUTCOME 1.3	**Measurement Tool 3**	**Student Benchmark**	**Assessment Frequency**	**Responsible Authors**
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 semester - End of the 6th semester	- Clinical instructors and staff
Outcome 1.3- Tool 3	***Results***		***Comments/Action Plan***	
Area D	***94.7% overall for cohort of 2022*** ***97.6% overall for cohort of 2021***		***Benchmark met*** **2022 =22 students** 7 students = 10.0 10 students = 9.5	**2021 = 17 students** 13 students = 10.0 3 students = 9.5

		3 students = 9.0 1 student = 8.5 1 student = 8.0	1 students = 7.5

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

OUTCOME	Measurement Tool 1	Student Benchmark	Frequency	Responsible Authors
2.1: 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 3rd semester - End of the 6th semester	- Clinical instructors and staff
Outcome 2.1- Tool 1	***Results***		***Comments/Action Plan***	
Area F	***93% overall for cohort of 2022*** ***95.9% overall for cohort of 2021***		***Benchmark met*** **2022 =22 students** / **2021 = 17 students** 5 students = 10.0 / 8 students = 10.0 10 students = 9.5 / 7 students = 9.5 3 students = 9.0 / 1 students = 8.5 2 students = 8.5 / 1 student = 8.0 1 student = 8.0 1 student = 7.5	
2.2: 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	- Rad T 63A Instructor
Outcome 2.2 – Tool 2.	***Results***		***Comments/Action Plan***	
RADT 63A section 5817	***96% overall for cohort of 2021***		***Benchmark met*** **18 students** 12 students = 100% 1 student = 98% 3 students = 95% 1 students = 90% 1student 55%	

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

OUTCOME	Measurement Tool 1	Student Benchmark	Frequency	Responsibility Authors
- 3.1: Students will demonstrate good oral communication.	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 instructor and staff
Outcome 3.1 – Tool 1	***Results***		***Comments/Action Plan***	
Area B	***97.5% overall for cohort of 2022*** ***98.2% overall for cohort of 2021***		***Benchmark met*** **2022 =22 students** 16 students = 10.0 4 students = 9.5 1 student = 8.5 1 student = 8.0	**2021 = 17 students** 14 students = 10.0 2 students = 9.5 1 students = 8.0

OUTCOME	Measurement Tool 2	Student Benchmark	Frequency	Responsibility Authors
- 3.2: Oral 63B ALARA project	Oral communication grading of the classes' project	An average rating of **85%** in all students' evaluations.	- End of 4th semester	- RT 63B instructor
Outcome 3.2- Tool 2	***Results***		***Comments/Action Plan***	
	97.5% class average for cohort of 2020 -Fall 2019 ***Results pending end of course for cohort of 2021 -Fall 2020***		***Benchmark met*** **2020 = 16 students** 9 students = 100% 7 students = 95%	
- 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 65 instructor

Outcome 3.3 – Tool 3	***Results***	***Comments/Action Plan***
RADT 65 written project	***93.1% class average for cohort of 2020 -Fall 2019*** ***Results pending end of course for cohort of 2021 -Fall 2020***	***Benchmark met*** **2020 =16 students** 10 students = 100% 2 students = 95% 4 students = 75%

OUTCOME	**Measurement Tool 2**	**Student Benchmark**	**Frequency**	**Responsibility Authors**
- 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 65 instructor
Outcome 3.3 – Tool 3	***Results***		***Comments/Action Plan***	
RADT 65 written project	***93.1% class average for cohort of 2020 -Fall 2019*** ***Results pending end of course for cohort of 2021 -Fall 2020***		***Benchmark met*** **2020 =16 students** 10 students = 100% 2 students = 95% 4 students = 75%	

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

OUTCOME	**Measurement Tool 1**	**Student Benchmark**	**Frequency**	**Responsibility Authors**
- 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 instructor and staff
Outcome 4.1 –Tool 1	***Results***		***Comments/Action Plan***	
Area C	***97.3% overall for cohort of 2022***		***Benchmark met***	

	97.1% overall for cohort of 2021		**2022 =22 students** 17 students = 10.0 1 student = 9.5 2 students = 9.0 1 student = 8.5 1 student = 8.0	**2021 = 17 students** 15 students = 10.0 2 students = 7.5

OUTCOME	**Measurement Tool 2**	**Student Benchmark**	**Frequency**	**Responsibility Authors**
- 4.2: Students will 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	- RT 60 instructor
Outcome 4.2 –Toc2	***Results***		***Comments/Action Plan***	
RADT 60	***94.7% class average for cohort of 2021 -Fall 2019***		***Benchmark met*** **2021 =19 students** 10 students = 100% 8 students = 96% 1 students = 88%	

OUTCOME 4.3	**Measurement Tool 3**	**Student Benchmark**	**Assessment Frequency**	**Responsible Authors**
Students will demonstrate compliance to program & department policies, including punctuality, attendance and dress code.	Area G 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	- Clinical instructors and staff
Outcome 4.3- Tool 3	***Results***	***Comments/Action Plan***		
Area G	***97.7% overall for cohort of 2022*** ***96.8% overall for cohort of 2021***	***Benchmark met*** **2022 =22 students** **2021 = 17 students**		

		17 students = 10.0 3 students = 9.5 1 student = 8.5 1 student = 8.0	14 students = 10.0 1 student = 9.5 2 students = 7.5

OUTCOME 4.4	Measurement Tool 4	Student Benchmark	Assessment Frequency	Responsible Authors
Students will demonstrate an organized & efficient work pattern during exams.	Area I 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	- Clinical instructors and staff
Outcome 4.4 – Tool 4	***Results***	***Comments/Action Plan***		
Area I	***95.5% overall for cohort of 2022*** ***96.8% overall for cohort of 2021***	***Benchmark met*** **2022 =22 students** 12 students = 10.0 6 students = 9.5 2 students = 9.0 1 student = 8.0 1 student = 7.0		**2021 = 17 students** 13 students = 10.0 1 student = 9.5 1 student = 9.0 1 student = 8.5 1 student = 7.5

Program Goal 5: Students will exhibit **quality patient care and sensitivity to patient needs.**

OUTCOME 5.1	Measurement Tool 1	Student Benchmark	Assessment Frequency	Responsible Authors
Students will correctly identify patients, protect patient modesty, safely transfer patients & maintain confidentiality.	Area A 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	- Clinical instructors and staff
Outcome 5.1- Tool 1	***Results***	***Comments/Action Plan***		
Area A	***96.6% overall for cohort of 2022*** ***99.1% overall for cohort of 2021***	***Benchmark met*** **2022 =22 students** 13 students = 10.0 6 students = 9.5		**2021 = 17 students** 15 students = 10.0 1 student = 9.5

		1 student = 9.0 1 student = 8.5 1 student = 8.0	1 student = 9.0

OUTCOME 5.2	Measurement Tool 2	Student Benchmark	Assessment Frequency	Responsible Authors
Students will demonstrate empathy, tolerance, respect and adapt to patient needs.	Area J 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	- Clinical instructors and staff
Outcome 5.2 – Tool 2	***Results***	***Comments/Action Plan***		
Area J	***98.4% overall for cohort of 2022*** ***97.4% overall for cohort of 2021***	***Benchmark met*** **2022 =22 students** 18 students = 10.0 2 students = 9.5 1 student = 9.0 1 student = 8.5	**2021 = 16 students** 13 students = 10.0 2 student = 9.5 1 student = 9.0 1 student = 7.5	

Santa Rosa Junior College Radiologic Technology Assessment Plan
Program Effectiveness Measures 2019 – 2020

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	Responsibility Area
1: Consistent and acceptable completion rate.	Completion rate results	The program will graduate at least 80% of its students.	Annually at graduation	Program director
Outcome 1	**Results**		**Comments/Action Plan**	
Class of 2018-2020	*16 of 20 (80%) completed the program.*		***Benchmark met*** 2 students were dismissed for unsatisfactory academic achievement. 2 students voluntarily withdrew from the program.	

OUTCOME	Measurement Tool	Program Benchmark	Frequency	Responsibility Area
2: Graduates will pass the credentialing exam.	ARRT exam results	85% of program graduates will pass on the first attempt.	Annually	Program director
Outcome 2	**Results**		**Comments/Action Plan**	
Class of 2018-2020	*16 of 16 passed on first attempt = 100%*		***Benchmark met*** ***Mean cohort score = 100%***	

OUTCOME	Measurement Tool	Program Benchmark	Frequency	Responsibility Area
3: Graduates will pass credentialing exam at or above national average	ARRT exam scores	ARRT exam score will be at or above the national average.	Annually	Program director
Outcome 3	**Results**			**Comments/Action Plan**
	Year	All Programs	SRJC	

Classes 2015 - 2019	2015	83.7	83.1	***Benchmark not met*** ***Students scored at or above the national average 3 of 5 years. An upward trend is noticed from 2016- 2018. Possible decline for class of 2019 because of multiple wildfires, evacuations and power outages in the area. Continue to monitor when 2020 ARRT results are posted.***
	2016	83.3	89.6	
	2017	83.6	88.4	
	2018	83.6	85.1	
	2019	83.4	80.7	

OUTCOME	**Measurement Tool**	**Program Benchmark**	**Frequency**	**Responsibility Area**
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	Annually for 5 years	Program director
Outcome 4	**Results**		**Comments/Action Plan**	
12 month employment	***17/17 responses polled class of 2019***		***Benchmark met*** ***5 year average 94%***	

OUTCOME	**Measurement Tool**	**Program Benchmark**	**Frequency**	**Responsibility Area**
5. Graduates will be satisfied with their education.	Graduate survey results	85% of graduates will be satisfied with their education	Annually - 12 months post-graduation survey	Program director
Outcome 5	**Results**		**Comments/Action Plan**	
2019 graduate satisfaction survey. 17 responses	***17/17 responses polled class of 2019***		***Benchmark met*** Based on responses received, 52.94% of graduates are at highly satisfied, 23.53% are satisfied and 23.53% are	
	Strongly agree	9		
	Agree	4		

	Neutral	4	neutral regarding the education received. None report dissatisfaction.

OUTCOME	Measurement Tool	Program Benchmark	Frequency	Responsibility Area
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 post -graduation survey	Program director

Outcome 6	Results			Comments/Action Plan
Employer survey 12 months post 2019 graduation. *12 responses*		Agree	St Agree	Based on responses received, 58.33% of employers did not hire graduates during the past year. Of those who did, employers demonstrate satisfaction. No neutral, disagree or strongly disagree.
	Patient care	4	3	
	Ethics	1	2	
	Professionalism	2	3	
	Communication	1	4	
	Critical Thinking	4	2	
	Clinical Competency	3	3	
	Reliability and Consistency	3	3	
	SRJC has effectively prepared graduates as entry-level technologists	1	5	
	I am satisfied with the educational preparation of SRJC	2	6	

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 2021-22 (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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	98	114	166	158	163	218	93	132	212	127	169	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0	0	0	0	0	0	0	0	0	0	0	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	36	35	34	34	0	0	39	76	40	40	87	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	134	149	200	192	163	218	132	208	252	167	256	

5.2a Enrollment Efficiency

Radiologic Technology is ONLY taught on Santa Rosa campus.

Radiologic Technology - FY 2021-22 (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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	108.9%	95.0%	100.6%	92.9%	102.5%	103.3%	98.9%	100.0%	101.2%	102.1%	92.9%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0.0%	0.0%	0.0%	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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	90.0%	92.5%	87.5%	85.0%	0.0%	0.0%	88.6%	100.0%	100.0%	90.9%	90.9%	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	103.1%	94.4%	98.0%	91.4%	102.5%	103.3%	95.7%	100.0%	100.9%	98.6%	92.5%	

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.

Radiologic Technology - FY 2021-22 (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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	24.5	16.3	23.7	17.6	18.2	27.3	23.3	18.9	28.5	24.0	21.1	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0.0	0.0	0.0	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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	18.0	18.5	17.5	17.0	0.0	0.0	19.5	22.0	21.0	20.0	20.0	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	22.3	16.8	22.3	17.5	18.2	27.3	22.0	19.6	26.6	22.7	20.9	

5.3 Instructional Productivity

Radiologic Technology - FY 2021-22 (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		X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
	FTES	7.29	14.75	14.72	11.78	38.93	45.31	7.05	17.01	21.49	8.49	21.12	
	FTEF	0.50	1.64	1.28	1.65	3.86	3.18	0.51	1.85	1.20	0.55	2.43	
	Ratio	**14.57**	**8.97**	**11.54**	**7.15**	**10.08**	**14.25**	**13.88**	**9.20**	**17.88**	**15.42**	**8.68**	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Radiologic Technology		X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
	FTES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	FTEF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Ratio	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

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

Radiologic Technology		X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
	FTES	10.52	19.10	10.01	5.69	0.00	0.00	0.00	31.23	29.81	11.62	26.73	
	FTEF	0.96	1.50	2.10	1.48	0.00	0.00	1.02	2.62	2.20	1.01	2.19	
	Ratio	**10.93**	**12.74**	**4.76**	**3.84**	**0.00**	**0.00**	**0.00**	**11.91**	**13.55**	**11.55**	**12.21**	

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

Radiologic Technology		X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
	FTES	17.81	33.85	24.73	17.47	38.93	45.31	7.05	48.24	51.30	20.11	47.85	

	FTEF	1.46	3.14	3.38	3.13	3.86	3.18	1.53	4.47	3.40	1.56	4.62	
	Ratio	**12.17**	**10.77**	**7.32**	**5.58**	**10.08**	**14.25**	**4.62**	**10.79**	**15.08**	**12.92**	**10.35**	

5.4 Curriculum Currency

Periodic revision and update of radiologic technology coursework has occurred most recently in the Spring 2022. 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 2017-22 (plus current FY Summer and Fall)

Coursework is only held at Santa Rosa Campus.

Total number of Graduates		
2021	85%	17/20
2020	80%	16/20
2016	85%	17/20
2015	80%	16/20
2018	95%	19/20
5 year average	**90.6%**	**87/96**

Radiologic Technology - FY 2021-22 (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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	95.9%	94.7%	73.9%	91.0%	98.2%	93.1%	0.0%	98.5%	87.2%	87.2%	93.4%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0.0%	0.0%	0.0%	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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	100.0%	94.6%	0.0%	100.0%	0.0%	0.0%	0.0%	90.0%	95.2%	100.0%	92.0%	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	97.0%	94.7%	61.3%	92.6%	98.2%	93.1%	0.0%	95.3%	88.5%	90.3%	92.9%	

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	number passed on 1st attempt divided by number attempted within 6 months of graduation
Year	**Results**
2017	**20 of 20 - 100%**
2018	**16 of 18 - 89%**
2019	**16 of 18 - 89%**
2020	**16 of 16 - 100%**
2021	**16 of 17 -94%**
Program 5-Year Average	**84 of 89 - 94.4%**

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

Radiologic Technology - FY 2021-22 (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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	96.9%	94.7%	94.5%	91.0%	98.2%	94.9%	0.0%	100.0%	88.5%	90.4%	94.6%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0.0%	0.0%	0.0%	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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	100.0%	94.6%	100.0%	100.0%	0.0%	0.0%	0.0%	91.3%	95.2%	100.0%	92.0%	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	97.8%	94.7%	95.5%	92.6%	98.2%	94.9%	0.0%	96.7%	89.6%	92.7%	93.7%	

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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	95.9%	94.7%	73.9%	91.0%	98.2%	93.1%	0.0%	98.5%	87.2%	87.2%	93.4%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0.0%	0.0%	0.0%	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	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	100.0%	94.6%	0.0%	100.0%	0.0%	0.0%	0.0%	90.0%	95.2%	100.0%	92.0%	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	97.0%	94.7%	61.3%	92.6%	98.2%	93.1%	0.0%	95.3%	88.5%	90.3%	92.9%	

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

Santa Rosa Campus

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	3.09	3.46	2.20	3.54	3.80	3.67	0.00	3.57	3.50	3.14	3.41	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	3.82	3.68	0.00	3.76	0.00	0.00	0.00	3.72	3.78	3.85	3.87	

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

Discipline	X2019	F2019	S2020	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023
Radiologic Technology	3.37	3.56	1.28	3.62	3.80	3.67	0.00	3.64	3.62	3.42	3.59	

5.7 Student Access

Santa Rosa Junior College - Program Unit Review

Radiologic Technology - FY 2021-22 (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	2019-20	Percent	2020-21	Percent	2021-22	Percent	2022-23	Percent
	White	155	33.0%	153	28.1%	195	33.7%	203	31.9%
	Asian	39	8.3%	47	8.6%	35	6.1%	27	4.2%
	Black	36	7.7%	32	5.9%	16	2.8%	18	2.8%
	Hispanic	176	37.5%	248	45.5%	273	47.2%	304	47.7%
	Native American	1	0.2%	0	0.0%	0	0.0%	5	0.8%
	Pacific Islander	0	0.0%	2	0.4%	1	0.2%	4	0.6%
	Filipino	6	1.3%	4	0.7%	4	0.7%	2	0.3%
	Other Non-White	26	5.5%	28	5.1%	37	6.4%	37	5.8%
	Decline to state	30	6.4%	31	5.7%	17	2.9%	37	5.8%
	ALL Ethnicities	**469**	**100.0%**	**545**	**100.0%**	**578**	**100.0%**	**637**	**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	2019-20	Percent	2020-21	Percent	2021-22	Percent	2022-23	Percent
	Male	126	26.9%	134	24.6%	146	25.3%	158	24.8%
	Female	339	72.3%	408	74.9%	421	72.8%	471	73.9%
	Unknown	4	0.9%	3	0.6%	11	1.9%	8	1.3%
	ALL Genders	**469**	**100.0%**	**545**	**100.0%**	**578**	**100.0%**	**637**	**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	2019-20	Percent	2020-21	Percent	2021-22	Percent	2022-23	Percent
	0 thru 18	4	0.9%	5	0.9%	16	2.8%	23	3.6%
	19 and 20	29	6.2%	22	4.0%	22	3.8%	37	5.8%
	21 thru 25	177	37.7%	201	36.9%	170	29.4%	153	24.0%
	26 thru 30	114	24.3%	150	27.5%	132	22.8%	145	22.8%
	31 thru 35	50	10.7%	80	14.7%	101	17.5%	115	18.1%
	36 thru 40	55	11.7%	39	7.2%	61	10.6%	78	12.2%
	41 thru 45	18	3.8%	25	4.6%	59	10.2%	57	8.9%
	46 thru 50	5	1.1%	10	1.8%	15	2.6%	16	2.5%
	51 thru 60	10	2.1%	9	1.7%	2	0.3%	13	2.0%
	61 plus	7	1.5%	4	0.7%	0	0.0%	0	0.0%
	ALL Ages	**469**	**100.0%**	**545**	**100.0%**	**578**	**100.0%**	**637**	**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. Statistics for 2021 pending.

Job Placement Rate	number employed divided by number actively seeking employment within 12 months of graduation	Number of survey responses received
Year	**Results**	
Year 1 - 2016	**11 of 11 - 100%**	**11**
Year 2 – 2017	**7 of 7 - 100%**	**7**
Year 3 – 2018	**16 of 17 - 94%**	**2**
Year 4 – 2019	**17 of 18 - 94%**	**9**
Year 5 - 2020	**15 of 16 - 94%**	**17**
Program 5-Year Average	**66 of 69 - 96%**	**46**

Data from Center for Excellence:

SOC Code	Occupational Title	Entry Level Education	2018 Jobs	2018-2028 Total Job Openings	Annual Job Openings
29-2034	Radiologic Technologists	Associate's degree	170	140	

5.11b Academic Standards

The JRCERT visited our program for our periodic site visit and accreditation renewal in May 2021. There were no infractions found. The RT program was awarded the maximum accredtation of 8 years.

An interim report will be required. The projected date for the interim report is the Second Quarter of 2025. The next site visit is tentatively scheduled for the Second Quarter of 2029.

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	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.

6.2b PRPP Editor Feedback - Optional

6.3a Annual Unit Plan

Rank	Location	SP	M	Goal	Objective	Time Frame	Resources Required
0001	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.