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Accreditation

Initial accreditation of the certificate program was granted in 1968, by The Joint Review Committee on Education in Radiologic Technology, in cooperation with the American College of Radiology and the American Society of Radiologic Technologists. This accreditation has been continuous to date.

The Radiation Therapy program accepts 14 students per class. This small class size ensures personal instruction, advising and a cordial learning environment.

For further information on the Joint Review Committee on Education in Radiologic Technology, go to jrcert.org.

**Joint Review Committee on Education in Radiologic Technology**
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606
312-704-5300
mail@jrcert.org
Program Goals

The Radiation Therapy Program is the only radiation therapy program in the St. Louis Area. Due to its location at Saint Louis University, it gives students the opportunity to interact with students majoring in many health care fields including medicine, nuclear medicine, nursing, physical therapy, physician assistant education, occupational therapy, health information management, nutrition and dietetics, and clinical lab science. The Radiation Therapy Program strives to produce graduates that will excel in their professional field. We provide the development and knowledge that will allow the student to pursue a variety of paths when they enter the workforce, whether it is working as a staff therapist, pursuing an advanced degree, or pursuing managerial and corporate positions. Our graduates are sought after and are well regarded at the clinical sites where they train. Students receive premier clinical experiences at the finest hospitals in the Saint Louis Metropolitan Area. Students receive instruction from expert full-time and adjunct faculty in a diverse group of related disciplines including radiation therapists, certified medical dosimetrists, nuclear medicine technologists, physicians, nurses, physical therapists, pharmacists, physicists, managers and other professionals.

Programmatic Mission: The Radiation Therapy Program at Saint Louis University, Doisy College of Health Sciences is dedicated to preparing liberally educated, competent, caring and socially responsible radiation therapists, committed to clinical and scholarly excellence.

Radiation Therapy Program Goals and Student Learning Outcomes:

- **Goal A: Students will be clinically competent**
  1. The Radiation Therapy student will position patients as directed in treatment record
  2. The Radiation Therapy student will set treatment machine as indicated in patient treatment record.
  3. The Radiation Therapy student will practice patient confidentiality.
  4. The Radiation Therapy student will practice proper radiation protection and safety.

- **Goal B: Students will demonstrate problem solving and critical thinking skills**
  1. The radiation therapy student will demonstrate complex radiation therapy procedures.
  2. The radiation therapy student will present a complex radiation therapy treatment procedure to an audience.
  3. The radiation therapy student will demonstrate appropriate problem solving skills for the practice of radiation therapy when provided with a case for analysis.

- **Goal C: Students will demonstrate effective communication skills**
  1. The radiation therapy student will appropriately communicate with patients.
  2. The radiation therapy student will show evidence of appropriate written communication for the profession of radiation therapy.
  3. The radiation therapy student will demonstrate proper presentation skills.

- **Goal D: Students will demonstrate professional growth and development**
  1. The radiation therapy student will demonstrate professional behavior.
  2. The radiation therapy student will be able to articulate ethical behaviors in clinical practice.
  3. The radiation therapy student will have knowledge of professional organizations.
  4. The radiation therapy student will demonstrate the concepts of compassionate care.
The program annually tracks student learning outcomes as they relate to the above student goals. This learning outcomes report for the past academic year can be found on Appendix A.

**Program Outcomes 2014-18**

The data presented here are the mandatory qualitative program outcomes that are required by the Joint Review Committee on Education in Radiology Technology in the Standards for an Accredited Program in Radiologic Sciences - Radiation Therapy Program. These standards can be found at [http://www.jrcert.org/programs-faculty/jrcert-standards/](http://www.jrcert.org/programs-faculty/jrcert-standards/).

Current Program Effectiveness Data reported to the Joint Review Committee on Education in Radiologic Technology can be found at [jrcert.org](http://jrcert.org).

**Enrollments, Graduates and Program Completion Rate**

<table>
<thead>
<tr>
<th>Year of Graduation</th>
<th># of Students Initially Enrolled</th>
<th># Students Graduated</th>
<th>Program Completion Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>11</td>
<td>11</td>
<td>100%</td>
</tr>
<tr>
<td>2017</td>
<td>11</td>
<td>11</td>
<td>100%</td>
</tr>
<tr>
<td>2016</td>
<td>12</td>
<td>11</td>
<td>92%</td>
</tr>
<tr>
<td>2015</td>
<td>12</td>
<td>11</td>
<td>92%</td>
</tr>
<tr>
<td>2014</td>
<td>12</td>
<td>11</td>
<td>92%</td>
</tr>
<tr>
<td><strong>Five Year Average</strong></td>
<td><strong>95%</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Enrollments** are defined as the number of new students who began the program during the reporting period indicated.

**Graduates** are defined as the total number of students that the Radiation Therapy Program graduated during the reporting period indicated.

**Program Completion Rate** is calculated by dividing the number of students who complete the program within the cohort by the number who enrolled in the cohort initially and subsequently. Any student who leaves the program for any reason (medical leave, personal reasons, or course failure) is counted as not completing the program. The Radiation Therapy Program identifies a program completion rate benchmark of 80%, and is in compliance with this benchmark for the past 5 years reported, 2014-2018.
**Credentialing Examination Pass Rate**

<table>
<thead>
<tr>
<th>ARRT Exam</th>
<th>Graduation Year</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Repeat Examinees</td>
<td>0/11</td>
</tr>
<tr>
<td>% Pass Rates</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Five Year Average</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Credentialing Examination Pass Rate** is defined as the number of graduates who pass the American Registry of Radiologic Technologists (ARRT) credentialing exam compared with the number of graduates who take the exam. Consistent with JRCERT Standards, programs must document a five-year credentialing examination pass rate average of not less than 75%, at first attempt, within six months of graduation.

* Two of eleven graduates in 2017 did not take the exam within six months of graduation therefore is not reported here as an examinee.

**Job Placement Rate**

| Graduation Year | # Graduates Actively Seeking Employment | # Graduates Employed Within 12 Months of Graduation | % of Graduates Employed Within 12 Months of Graduation |
|----------------|----------------------------------------|-----------------------------------------------------|
| 2018           | 9 (out of 11)                          | 9                                                   | 100%                                                |
| 2017           | 9 (out of 11)                          | 7                                                   | 78%                                                 |
| 2016           | 9 (out of 11)                          | 9                                                   | 100%                                                |
| 2015           | 9 (out of 11)                          | 9                                                   | 100%                                                |
| 2014           | 10 (out of 12)                         | 10                                                  | 100%                                                |

**Five Year Average** | | | **95%** |
Job placement rate is defined as the number of graduates employed in the radiologic sciences compared to the number of graduates actively seeking employment in the radiologic sciences. Graduates “not actively seeking” employment is defined as graduates not communicating with the program regarding employment status, unwilling to seek employment due to relocation requirements, not accepting employment due to hours or salary, is in active military duty or is continuing education. Consistent with JRCERT Standards, programs must document a five-year average job placement rate of not less than 75% within twelve months of graduation. Radiation Therapy students graduate in August.

Annual Learning Outcomes Report

The program annually tracks the following learning outcome goals as part of its ongoing assessment plan, as required by the JRCERT. These program goals are:

Goal A: Students will be clinically competent
Goal B: Students will demonstrate problem solving and critical thinking skills
Goal C: Students will demonstrate effective communication skills
Goal D: Students will demonstrate professional growth and development
Clinical Sites

Clinical education requirements will place the student in the patient care setting in various clinical areas throughout the St. Louis Metro area; therefore, a student must have reliable transportation to get to the clinical sites. Students will travel to several of the following sites for their clinical rotations:

**Mercy South**
Department of Radiation Oncology
10010 Kennerly Road
St. Louis, MO 63128

**Phelps Regional Medical Center**
Delbert Day Cancer Institute
1060 West 10th Street
Rolla, MO 65401

**SSM Health Saint Louis University Hospital**
Radiation Medicine and Cyberknife
3635 Vista Ave.
PO Box 15250
St. Louis, MO 63110-0250

**Missouri Baptist Medical Center**
3015 N. Ballas Rd.
St. Louis, MO 63131

**Siteman Cancer Center – Memorial East**
Memorial and St. Elizabeth's Healthcare Services, LLP
4000 North Illinois
Swansea, IL 62226

**SSM Health St. Clare Hospital- Fenton**
1011 Bowles Ave. Suite G50
Fenton, MO 63026

**Mercy Medical Center**
David C. Pratt Cancer Center
607 S. New Ballas Road
St. Louis, MO 63141

**Siteman Cancer Center -St. Peters.**
Barnes-Jewish Hospital - St. Peters
Siteman Cancer Center - Department of Radiation Oncology
150 Entrance Way
St. Peters, MO 63376

**SSM Health St. Joseph Hospital West**
1475 Kisker Rd, Suite 180
St. Charles, MO, 63304-8781

**Siteman Cancer Center - Barnes-Jewish Hospital**
Barnes Jewish Hospital - Siteman Cancer Center
Department of Radiation Oncology
One Barnes-Jewish Hospital Plaza
St. Louis, MO 63110

**SSM Health St. Mary’s Hospital- St. Louis**
6420 Clayton Rd.
Richmond Heights, MO 63117

**Mercy Jefferson Cancer Center**
Radiation Oncology
1350 US HWY 61
Festus, MO 63028

**VA St. Louis Health Care - John Cochran**
915 North Grand
St. Louis, MO 63108
Technical Standards

Purpose: This is a non-discriminatory policy that describes the intellectual, social, and physical capabilities required to perform the tasks of a radiation therapist. The mission of the Program is to educate a therapist in Radiation Therapy. Therefore, students must meet these standards to pursue the program coursework and work within the field.

All applicants and students of the Radiation Therapy Program must be able to perform each of the standards stated in this policy.

In some cases, the use of adaptive devices may be permitted in order for the student to meet selected technical standards.

Radiation Therapists are required to:

• Intellectually understand the conceptual, integrative and quantitative ability to analyze information and data. Comprehend three-dimensional relationships and the spatial relationships of structure. Understand and apply clinical instructions given by departmental personnel.
• Think critically: Identify cause and effect relationships, predict outcomes, interpret situation contexts and have the ability to make sufficient judgments.
• Tolerate physical and emotional stress and continue to function effectively. Demonstrate emotional stability and psychological health in day-to-day interaction with patients, staff, family members, and others. They must be adaptable, flexible and able to function in the face of uncertainty. A student must be able to develop mature, sensitive and effective relationships with patients and colleagues. They must have a high level of compassion for others, motivation to serve, integrity and a consciousness of social values. A student must possess sufficient interpersonal skills to interact with people from all levels of society, all ethnic backgrounds and all belief systems.
• Clearly communicate, verbally and in writing, with the patient, families, personnel and others to disseminate information about patient care and work duties. Candidates must be able to speak and hear at a level that allows them to elicit and convey information, accurately perceive nonverbal communication and describe changes in patient mood, activity posture and recognize and respond to an emergency or urgent situation. Must demonstrate normal or corrected hearing to discern audible signals on accelerators, imaging equipment, phones, and timing devices.
• See with normal or device corrected vision. They must possess the ability to discriminate among various color combinations in dimly lit conditions including blacks, grays and whites. Must possess the ability to read graphs, scales, computers and oscilloscopes. Recognize emergency signals. Adjust, move and manipulate variety of machines in dimly lit locations and have the ability to see both display devices and recorded images. Observe patient responses. A student must be able to observe patients accurately and completely, both from a distance and at close range.
• Read, extract and apply appropriate information and instructions contained in patient requisitions, notes and medical charts. Have the ability to read and comprehend technical and medical information.
• Have the manual dexterity to perform various radiation therapy procedures. Motor skills must include the ability to extend hands and arms in any direction. You must be able to hold, grasp and turn with the hands, and possess the ability to coordinate eyes, hands, and feet rapidly and accurately.
• Lift, transfer and move patients from wheelchairs/stretchers/beds to treatment tables. Lift, move, reach or push equipment weighing approximately 30-35 lbs. Endure an eight-hour clinical day with a minimum of four to six hours of standing or walking.
• Submit to and receive a satisfactory report on criminal background checks and drug testing for substance abuse.
Additional Program Requirements and Fees

<table>
<thead>
<tr>
<th></th>
<th>Criminal Background Check</th>
<th>Drug Screen</th>
<th>Respiratory Fit Test</th>
<th>Two Step Tb/PPD Screening</th>
<th>Annual Flu Shot</th>
<th>Poster Fee</th>
<th>CPR Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fee</td>
<td>$105.00</td>
<td>$30.00</td>
<td>$30.00</td>
<td>$28.00</td>
<td>$20.00</td>
<td>$25-35</td>
<td>$27.00</td>
</tr>
</tbody>
</table>

**Criminal Background Check**

**Fees: $105.00**

A majority of the Doisy College of Health Science's learning experience facilities mandate that criminal background checks be performed on all persons having any opportunity for patient/client interaction. This includes employees and volunteers, as well as students. A CBC revealing a charge and/or conviction for certain crimes could result in a ban from participation in learning experiences and thus prevent graduation. Therefore, every student in the Doisy College of Health Sciences whose academic program requires her/him to participate in learning experiences in an affiliate facility will be required to undergo the level of CBC required by their major department and/or the affiliate facility.

The Office of Clinical Education Compliance has a detailed policy that outlines the procedure for obtaining a CBC through the University. Please refer to the **Office of Clinical Education Compliance** or your department for a copy of this policy.

The timing of a CBC will be in concert with the student's program/department or affiliate facility policies. A single negative check does NOT preclude the requirement of additional checks at a future time. Students should be aware that any affirmative results from a CBC could restrict ability to participate in a learning experience and therefore restrict ability to complete degree requirements. In addition, the lack of an acceptable report on a CBC could bar the student from sitting for licensure examinations and thus from practice in certain professions.

In the event that a student's CBC is reported "affirmatively" the student will have the opportunity to contest the report by requesting an additional CBC. In the event that an Affirmative CBC is confirmed, the compliance officer will notify the designated program/department official and the student.

**Drug Screen**

**Fees: $30.00**

A pre-placement drug screen is required for accreditation standards in the affiliated hospitals in which University faculty and staff work. To comply with these standards and federal regulations, Saint Louis University will require that a pre-placement drug screen occur for students in clinical placement where there will be occupational activities in a University affiliated hospital, clinical site, direct patient contact, or employment.

The student will be advised of the pre-placement drug screen requirement prior to beginning the program. The candidate will be provided with instructions for scheduling the drug screen in Student Health.

If the candidate satisfactorily completes the drug screen, and it is negative, Student Health will notify the Program Director.
Candidates who have a positive drug screen are interviewed by an independent Medical Review Officer who determines if there is a legitimate reason for the presence of a controlled substance. The results of this interview are provided to Student Health and made available to the program.

In the event of a positive result, the Program Director and student will be notified of the positive drug screen. The student will be counseled, and further action regarding the student's enrollment in the program will be considered. The student will be advised that a positive test may result in immediate dismissal from the program.

Other **required immunizations/screenings required** for clinical placement:

**Respirator Fit Test**
Provided at SLU Student Health
Fees: $30.00

**Two Step Tb/PPD Screening**
Provided at SLU Student Health
Fees: $28.00

**Annual Flu Shot**
Provided at SLU Student Health
Fees: $20.00

**Poster Printing**
Provided at SLU Instructional Media Center fees: $25.00-$35.00
Students are required to prepare and present a research poster as part of their coursework. Students must pay for the cost of printing this poster which is provided at the SLU Instructional Media Center

**CPR Certification**
Provided inter-departmentally
Fees: $27.
### APPENDIX A

**SAINT LOUIS UNIVERSITY - DOISY COLLEGE OF HEALTH SCIENCES**  
**ASSESSMENT PLAN: STUDENT LEARNING OUTCOMES**  
Revision December, 2017, form Rev May 2019

**Program:** Radiation Therapy - Professional Year  
**Academic Year:** 2016-2017  
**Mission:** The Radiation Therapy Program at Saint Louis University, Doisy College of Health Sciences is dedicated to preparing liberally educated, competent, caring and socially responsible Radiation Therapists, committed to clinical and scholarly excellence.

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Measurement Tool/ Reporting Strategies</th>
<th>Threshold (Benchmark)</th>
<th>Time Line/ Responsible Person</th>
<th>Data/Status/ Action Plan</th>
</tr>
</thead>
</table>
| **Goal A: Students will be clinically competent** | 1. Linear Accelerator Clinical Rotation Performance Evaluation, Patient Treatment Section, Ques 8: Positions treatment machine to reproduce set-up indicated in treatment chart.  
3. Linear Accelerator Clinical Rotation Performance Evaluation Section, Formative Scale Section Question 10: Ensures confidence of privileged information and is honest and forthright at all times.  
4. Linear Accelerator Clinical Rotation Performance Evaluation, Patient Treatment Section, Question 5: Positions patient to reproduce set-up indicated in treatment chart, practicing radiation protection and patient safety. | 1. Each student will Score $\geq 5$ on a 6 point scale, 6 = Excellent, on their last linac evaluation  
2. Each student will Score $\geq 5$ on a 6 point on their last linac eval  
3. Each student will Score $\geq 5$ on a 6 point scale on their last linac eval  
4. Each student will score $\geq 5$ on a 6 point scale on their last linac eval | 1. Spring Evaluation Review and Summer Evaluation Review by Clinical Coordinator/Instructor  
2. Spring Evaluation Review and Summer Evaluation Review by Clinical Coordinator/Instructor  
3. Spring Evaluation Review and Summer Evaluation Review by Clinical Coordinator/Instructor  
4. Spring Evaluation Review and Summer Evaluation Review by Clinical Coordinator/Instructor | 1. Each student scored $\geq 5$ on a 6 point scale on their last linac evaluation, benchmark met  
2. Each student scored $\geq 5$ on a 6 point scale on their last linac evaluation, benchmark met.  
3. Each student scored $\geq 5$ on a 6 point scale on their last linac evaluation, benchmark met.  
4. Each student scored $\geq 5$ on a 6 point scale on their last linac evaluation, benchmark met. |
<table>
<thead>
<tr>
<th>Outcome</th>
<th>Measurement Tool/ Reporting Strategies</th>
<th>Threshold (Benchmark)</th>
<th>Time Line/ Responsible Person</th>
<th>Data/Status/ Action Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal B: The students will demonstrate problem solving and critical thinking skills</strong></td>
<td>1. a. XRT 4330: Treatment Techniques Course assignment 1.b. 2. XRT 4960 Capstone Case Study presentation</td>
<td>1. a. Each student will score ≥ 85% 1.b. Each student will score ≥ 85%</td>
<td>1. a. Fall Semester by Course Instructor b. Summer Semester by Program Director and Clinical Coordinator</td>
<td>1.a. Each student achieved a ranking of knowledge/assessment or higher, equivalent to a score of 85%, benchmark met 1.b. Each student achieved a ranking of knowledge/assessment or higher, equivalent to a score of 85%, benchmark met</td>
</tr>
<tr>
<td>1. The radiation therapy student will demonstrate complex radiation therapy treatment procedures. (DCHS PLO #3)</td>
<td>2. a. XRT 4350 Poster Project Rubric, Items: Abstract 2.b. XRT 4960 Capstone Case Study presentation</td>
<td>2. a. Each student will score ≥ 5 on a 6 point scale (85%) 2.b. Each student will score ≥ 85%</td>
<td>2. Spring Semester by Clinical Coordinator and Program Director</td>
<td>2.a. Each student achieved a ranking of assessment/synthesis or higher, equivalent to a score of 85% benchmark met. 2.b. Each student achieved a ranking of assessment/synthesis or higher, equivalent to a score of 85% benchmark met.</td>
</tr>
<tr>
<td>2. The radiation therapy student will present a complex radiation therapy treatment procedure to an audience. (DCHS #4)</td>
<td>3.a. XRT 4420 Ethical Dilemma Paper 3.b. XRT 4420 Course Discussion Board</td>
<td>3.a. Each student will score ≥ 85% 3.b. Each student will appropriately post to every case as required for the course, scoring ≥ 85%</td>
<td>3.a Spring Semester by Course Instructor 3b. Spring Semester by Course Instructor</td>
<td>3.a Each student scored ≥ 85%, benchmark met. 3.b. Each student posted to every case as required for the course, scoring ≥ 85%, benchmark met.</td>
</tr>
<tr>
<td>3. The radiation therapy student will demonstrate appropriate problem solving skills for the practice of radiation therapy when provided with a case for analysis</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| Goal C: Students will demonstrate effective communication skills | 1.a. Linear Accelerator Clinical Rotation Performance Evaluation, Formative Section, Question 5: Patient interaction: Establishes rapport with and gains | 1.a. Each student will Score ≥ 5 on a 6 point | 1.a. Summer Semester by | 1.a. Each student scored ≥5 on a 6 point scale on |</p>
<table>
<thead>
<tr>
<th>Outcome</th>
<th>Measurement Tool/ Reporting Strategies</th>
<th>Threshold (Benchmark)</th>
<th>Time Line/ Responsible Person</th>
<th>Data/Status/ Action Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>communicate with patients</td>
<td>confidence, cooperation of patients, communicates readily. 1. b. Employer Survey Question 8: ‘Speak so that clients or colleagues can understand the meaning of the message’</td>
<td>scale on their last linac evaluation 1.b. ≥ 80% responded excellent, above average or average</td>
<td>Clinical Coordinator 1.b. 6 months after graduation by Program Director</td>
<td>their last linac evaluation, benchmark met. 1.b. 80% responded excellent, above average or average, benchmark met* we have poor response on these surveys, we will consider other options to collect this data</td>
</tr>
<tr>
<td>2. The radiation therapy student will evidence appropriate written communication for the profession of radiation therapy. (DCHS PLO #2)</td>
<td>2.a. XRT 4330 Clinical Reflection Paper 2.b. XRT 4350 Poster Project rubric item: Required Elements, Intro, Conclusion and Results</td>
<td>2.a. Each Student will score ≥ 85 % 2.b. Each Student will score of ≥ 4 on a 5 point scale (equivalent to 85%)</td>
<td>2 a. Fall Semester by Didactic Instructor 2.b. Spring Semester by Didactic Instructor</td>
<td>2.a 83% of students achieved a ranking of knowledge/assessment or higher, therefore the benchmark of each student receiving a score of ≥85% was not met. 2.b. Each student scored ≥4 on a 5 point scale (equiv. to a score of 85%)on their last linac evaluation, benchmark met.</td>
</tr>
<tr>
<td>3. The radiation therapy student will demonstrate proper presentations skills</td>
<td>3. XRT 4980 Capstone Case Study Project rubric item: Technical Competence</td>
<td>3. Each Student will score ≥ 5 on a 6 point scale.</td>
<td>3. Summer Semester by Didactic instructor</td>
<td>3. Each student scored ≥5 on a 6 point scale on their capstone project rubric item Technical Competence, benchmark met.</td>
</tr>
<tr>
<td>Goal D: Students will demonstrate professional growth and development</td>
<td>1.a. XRT 4350 &amp; 4450 Linear Accelerator Clinical Rotation Performance Evaluation Attitude Assessment Section, Question 9: Professionalism: Assumes</td>
<td>1.a. Each student will Score ≥ 5 on a 6 point scale for their last linac</td>
<td>1.a. Summer Evaluation Review by Clinical coordinator/Clinical</td>
<td>1.a. Each student scored ≥5 on a 6 point scale, (equivalent to a score of...</td>
</tr>
<tr>
<td>Outcome</td>
<td>Measurement Tool/ Reporting Strategies</td>
<td>Threshold (Benchmark)</td>
<td>Time Line/ Responsible Person</td>
<td>Data/Status/ Action Plan</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>professional behaviors (DCHS PLO #5)</td>
<td>responsibility for actions and exhibits professional confidence and honest behavior at all times.</td>
<td>evaluation (equivalent to 85%)</td>
<td>Instructor</td>
<td>85%) benchmark met.</td>
</tr>
<tr>
<td>2. The radiation therapy student will be able</td>
<td>1.b. XRT 4450 Clinical Observation/Site Visit Assessment Notes</td>
<td>1.b. Each student will score ≥ 85 %</td>
<td>1.b. Summer Evaluation Review by Clinical coordinator/Program Director</td>
<td></td>
</tr>
<tr>
<td>to articulate ethical behaviors in clinical</td>
<td>2.a. XRT 4420 Ethical Dilemma Paper</td>
<td>2.a. Each student will score &gt; 85 %</td>
<td>2.a. Spring Semester by Didactic Instructor</td>
<td></td>
</tr>
<tr>
<td>practice. (DCHS PLO #1)</td>
<td>2.b. XRT 4420 Ethical Dilemma Journal Entries</td>
<td>2.b. Each student will post one journal entry per month appropriately analyzing an ethical</td>
<td>2.b. Spring Semester by Didactic Instructor</td>
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<tr>
<td></td>
<td></td>
<td>dilemma, scoring ≥ 85%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. The radiation therapy student will have</td>
<td>3. XRT 4960 Capstone Course: 5 Year Professional Growth Plan</td>
<td>3. Each student will score ≥ 85 %</td>
<td>3. Summer Semester by Didactic Instructor</td>
<td></td>
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<tr>
<td>knowledge of professional organizations</td>
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<td></td>
</tr>
<tr>
<td>4. Student will demonstrate the concepts of</td>
<td>4. a. XRT 4330 Clinical Observation Paper</td>
<td>4.a. Each student will score &gt; 85 %</td>
<td>4.a. Fall Semester by Didactic Instructor</td>
<td></td>
</tr>
<tr>
<td>compassionate care</td>
<td>4.b. XRT 4420 Critical Reflection Paper</td>
<td>4.b. Each student will score ≥ 85 %</td>
<td>4.b. Spring Semester by Didactic Instructor</td>
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</tbody>
</table>
**APPENDIX B**

**SAINT LOUIS UNIVERSITY - DOISY COLLEGE OF HEALTH SCIENCES**

**ASSESSMENT PLAN: STUDENT LEARNING OUTCOMES**

Revision December, 2017, form Rev May 2019

Program: Radiation Therapy - Professional Year

Academic Year: **2016-2017**

Mission: The Radiation Therapy Program at Saint Louis University, Doisy College of Health Sciences is dedicated to preparing liberally educated, competent, caring and socially responsible Radiation Therapists, committed to clinical and scholarly excellence.

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Measurement Tool/ Threshold</th>
<th>Action Plan</th>
<th>Improvement Made</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal A: Students will be clinically competent</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. The radiation therapy student will position patients as directed in treatment record</td>
<td>1. Linear Accelerator Clinical Rotation Performance Evaluation, Patient Treatment Section, Ques 8: Positions treatment machine to reproduce set-up indicated in treatment chart. Each student will Score ≥ 5 on a 6 point scale, 6 = Excellent, on their last linac evaluation</td>
<td>1. no action plan necessary</td>
<td>1. No improvement identified</td>
</tr>
<tr>
<td>2. The radiation therapy student will set treatment machine as indicated in patient treatment record</td>
<td>2. Linear Accelerator Clinical Rotation Performance Evaluation, Patient Treatment Section Question 13: Sets appropriate controls on treatment machine console for patient treatment. Each student will Score ≥ 5 on a 6 point on their last linac eval</td>
<td>2. no action plan necessary</td>
<td>2. No improvement identified</td>
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<tr>
<td>3. The radiation therapy student will practice patient confidentiality</td>
<td>3. Linear Accelerator Clinical Rotation Performance Evaluation Section, Formative Scale Section Question 10: Ensures confidence of privileged information and is honest and forthright at all times. Each student will Score ≥ 5 on a 6 point scale on their last linac eval</td>
<td>3. no action plan necessary</td>
<td>3. No improvement identified</td>
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<tr>
<td>Outcome</td>
<td>Measurement Tool/ Threshold</td>
<td>Action Plan</td>
<td>Improvement Made</td>
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<td>4. The radiation therapy student practice proper radiation protection and safety</td>
<td>4. Linear Accelerator Clinical Rotation Performance Evaluation, Patient Treatment Section, Question 5: Positions patient to reproduce set-up indicated in treatment chart, practicing radiation protection and patient safety. Each student will score ≥ 5 on a 6 point scale on their last linac eval</td>
<td>4. no action plan necessary</td>
<td>4. No improvement identified</td>
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<p>| Goal B: The students will demonstrate problem solving and critical thinking skills |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------|------------------|
| 1. The radiation therapy student will demonstrate complex radiation therapy treatment procedures.                              | 1. a. XRT 4330: Treatment Techniques Course assignment. Each student will score ≥ 85 %  | 1a. no action plan necessary | 1a. No improvement identified |</p>
<table>
<thead>
<tr>
<th>Outcome</th>
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<tr>
<td><strong>(DCHS PLO #3)</strong></td>
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<td>2. The radiation therapy student will present a complex radiation therapy treatment procedure to an audience. <strong>(DCHS #4)</strong></td>
<td>1.b. 2. XRT 4960 Capstone Case Study presentation. Each student will score ≥ 85 %</td>
<td>2a. no action plan necessary 2b. no action plan necessary</td>
<td>2a. No improvement identified 2b. No improvement identified</td>
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<td>2. a. XRT 4350 Poster Project Rubric, Items: Abstract. Each student will score ≥ 5 on a 6 point scale (85%)</td>
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<td>2.b. XRT 4960 Capstone Case Study presentation. Each student will score ≥ 85 %</td>
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<td></td>
<td>3.a. XRT 4420 Ethical Dilemma Paper. Each student will score ≥ 85 %</td>
<td>3a. no action plan necessary 3b. no action plan necessary</td>
<td>3a. No improvement identified 3b. No improvement identified</td>
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<td>3.b. XRT 4420 Course Discussion Board. Each student will appropriately post to every case as required for the course, scoring ≥ 85%</td>
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<td><strong>Goal C: Students will demonstrate effective communication skills</strong></td>
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<tr>
<td>1. The radiation therapy student will appropriately communicate with patients</td>
<td>1.a. Linear Accelerator Clinical Rotation Performance Evaluation, Formative Section, Question 5: Patient interaction: Establishes rapport with and gains confidence, cooperation of patients, communicates readily. Each student will Score ≥ 5 on a 6 point scale on their last linac evaluation</td>
<td>1a. no action plan necessary 1b. no action plan necessary</td>
<td>1a. No improvement identified 1b. No improvement identified</td>
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<td>1.b. Employer Survey Question 8: Speak so that clients or colleagues can understand the meaning of the message. ≥ 80% responded excellent, above average or average</td>
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<td><strong>2.</strong> The radiation therapy student will evidence appropriate written communication for the profession of radiation therapy. <em>(DCHS PLO #2)</em></td>
<td>2.a. XRT 4330 Clinical Reflection Paper. Each Student will score ≥ 85% 2.b. XRT 4350 Poster Project rubric item: Required Elements, Intro, Conclusion and Results. Each Student will score of ≥ 4 on a 5 point scale (equivalent to 85%)</td>
<td>2.a 83% of students achieved a ranking of knowledge/ assessment or higher, therefore the benchmark was not met ACTION: Course instructors will spend course time defining what is required in the assignment, with emphasis on clinical reflection requirements and review writing skills. 2.b. no action plan necessary</td>
<td>2a. This is a new reporting document, improvement resulting from actions will be analyzed and reported in 17-18 report. 2.b. No improvement identified</td>
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<tr>
<td><strong>3.</strong> The radiation therapy student will demonstrate proper presentations skills</td>
<td>3. XRT 4980 Capstone Case Study Project rubric item: Technical Competence. Each Student will score &gt; 5 on a 6 point scale</td>
<td>3. no action plan necessary</td>
<td>3. No improvement identified</td>
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<td><strong>Goal D: Students will demonstrate professional growth and development</strong></td>
<td>1.a. XRT 4350 &amp; 4450 Linear Accelerator Clinical Rotation Performance Evaluation Attitude Assessment Section, Question 9: Professionalism: Assumes responsibility for actions and exhibits professional confidence and honest behavior at all times. Each student will Score ≥ 5 on a 6 point scale for their last linac evaluation (equivalent to 85%) 1.b. XRT 4450 Clinical Observation/Site Visit Assessment Notes. Each student will score ≥ 85 %</td>
<td>1. a. 85% of students achieved a ranking of knowledge or higher, 1.b. 82% of students achieved a ranking of synthesis or higher, therefore the benchmark of 85% was not met. ACTION: Prior to clinical site visits, students and staff will be provided with more detailed expectations of the visit and the components of the grading, in a timely manner to try and improve their preparation and site visit</td>
<td>1a. No improvement identified 1b. This is a new reporting document, improvement resulting from actions will be analyzed and reported in 17-18 report.</td>
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| 2. The radiation therapy student will be able to articulate ethical behaviors in clinical practice.  
*(DCHS PLO #1)*                                                          | 2.a. XRT 4420 Ethical Dilemma Paper. Each student will score ≥ 85 %  
2.b. XRT 4420 Ethical Dilemma Journal Entries. Each student will post one journal entry per month appropriately analyzing an ethical dilemma, scoring ≥ 85%                                                                                                                                 | results.  
2a. no action plan necessary  
2.b. no action plan necessary                                                                                                                                                                                                 | 2a. No improvement identified  
2.b. No improvement identified                                                                                                                                            |
| 3. The radiation therapy student will have knowledge of professional organizations | 3. XRT 4960 Capstone Course: 5 Year Professional Growth Plan. Each student will score ≥ 85 %  
4. a. XRT 4330 Clinical Observation Paper. Each student will score ≥ 85 %  
4.b. XRT 4420 Critical Reflection Paper. Each student will score ≥ 85 %                                                                                                                                                               | 3. no action plan necessary                                                                                                                                                                                                 | 3. No improvement identified                                                                                                      |
| 4. Student will demonstrate the concepts of compassionate care            |                                                                                                                                                                                                                             | 4a. no action plan necessary  
4.b. no action plan necessary                                                                                                                                                                                                                                               | 4a. No improvement identified  
4.b. No improvement identified                                                                                                                                            |