

## ***Radiologic Sciences***

The radiologic sciences are the health care fields that involve the use of radiation in the diagnosis and treatment of human disease. Subspecialties in the radiologic sciences are radiography, radiation therapy, nuclear medicine, and diagnostic medical sonography (ultrasonography). Radiologic technologists use their knowledge of physics, human anatomy and physiology to create medically diagnostic images. The radiologic sciences combine advanced technology with human compassion.

## ***Radiography***

Radiography is the allied health profession that uses x-radiation to produce images of the human body.

- The radiographer performs x-ray examinations.
- The radiographer provides patient care, comfort and education.
- The radiographer uses radiation safety and protection practices.
- The radiographer produces high quality diagnostic radiographs for physician interpretation.
- The radiographer assists in the performance of invasive and fluoroscopic procedures.

The profession of radiography requires technical skills related to proper use of x-ray equipment and radiation, as well as humanistic skills related to patient care. Pages 18-20 of this Catalog outline the *Essential Functions of a Radiographer*. Radiography serves as the background for further specialization in the medical imaging modalities of computed tomography, magnetic resonance imaging, mammography and angiography. Career opportunities are also available in education, management and technical sales.

## ***SwedishAmerican Health System:***

A subsidiary of SwedishAmerican Health System, SwedishAmerican Hospital is a 333-bed, full-service, non-profit hospital serving the greater Rockford region, northern Illinois and southern Wisconsin. SwedishAmerican was named one of the "Top 100 Hospitals" in the US. SwedishAmerican also won the "Lincoln Award" recognizing excellence in Illinois businesses. SwedishAmerican was recognized by JD Power as a "Distinguished Hospital for Service Excellence" and was the only hospital in Northern Illinois ranked among the Top 100 Hospitals by Total Benchmark Solutions in recognition of its superior clinical performance. SwedishAmerican sponsors two allied health educational programs, the School of Radiography and the School of Radiation Therapy.

## ***Program Sponsorship:***

SwedishAmerican Hospital sponsors the School of Radiography. The School is a hospital based, certificate program. As the program sponsor, SwedishAmerican Hospital has primary responsibility for the professional education program, and grants the terminal award -- the hospital certificate. SwedishAmerican has a working affiliation with the University of St. Francis Located in Joliet Illinois. This affiliation allows St. Francis students to attend radiography school and SwedishAmerican. Upon completion of the radiography program, students will be award a Baccalaureate of Science from the

University of St. Francis along with a certificate from SwedishAmerican. SwedishAmerican Healthcare System provides a smoke-free environment for its patients, visitors, employees and students. (See Appendix A for more information).

### ***SwedishAmerican Hospital Mission:***

Through excellence in healthcare and compassionate service, we care for our community.”

### ***School of Radiography Mission:***

Through excellence in education and a quality-focused environment, we provide our healthcare community with competent and compassionate radiographers.

### ***Program Goals:***

1. Develop competent radiographers.
2. The student will develop critical thinking skills
3. The student will practice effective communication skills
4. The student/graduate will demonstrate the values and ethics of a radiographer

### ***Program Accreditation:***

The JRCERT (Joint Review Committee on Education in Radiologic Technology) accredits the SwedishAmerican School of Radiography. Accreditation ensures that the School meets or exceeds national standards regarding the quality of the program. Program accreditation also guarantees that graduates are eligible for national certification and state licensure. The School posts a copy of the *JRCERT Standards for an Accredited Educational Program in Radiologic Sciences* on the bulletin board outside the School classroom for applicant or student review. For more information about the School’s accreditation status, contact the JRCERT at 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-2901 (phone: 312-704-5300, E-mail address: [mail@jrcert.org](mailto:mail@jrcert.org), or the JRCERT website: [www.jrcert.org](http://www.jrcert.org)).

### ***Admissions:***

Admission into the School of Radiography is competitive. The school receives approximately 50+ applications each year and from those, accepts up to ten qualified applicants. Applicants admitted to the program must meet academic and professional admission standards. SwedishAmerican Hospital School of Radiography offers applicants two options: **A Certificate Track and a Baccalaureate Track.**

The difference between these options is in:

- the number of college courses completed **before** admission to the hospital program,
- the cost of tuition, and
- the availability of financial aid. (Financial aid is available for the baccalaureate track. There is NO financial aid for the certificate track).

Another difference is whether or not the student earns academic credit. **While enrolled in the School of Radiography, certificate track students and baccalaureate track students complete the same courses. Both tracks satisfy the educational requirements for registration and employment as a radiographer.**

## ***Certificate or Baccalaureate Track - Which is right for you?***

### ***Certificate Track:***

Applicants that select the certificate track will attend the School of Radiography at SAH for 24 months. The certificate track is for students who do not wish to complete the requirements for a four-year baccalaureate degree; however applicants must complete seven prerequisite college courses to qualify for admission into the program. (see Admission Policy on pages 10-15 of this *Catalog* for details). Certificate track students do not earn an academic (college) degree and are not eligible for financial aid, although there are some scholarships available through the Rockford Health Career Foundation, SwedishAmerican Hospital and the Guminski Scholarship. Most scholarship opportunities fund tuition for the second-year only. Certificate track students pay tuition directly to SwedishAmerican Hospital, and earn a radiography certificate upon successful completion of the program. Successful completion of the program qualifies the graduate to sit for the ARRT national certification examination and for eligibility for Illinois State licensure.

### ***Baccalaureate Track:***

The baccalaureate track is for students seeking a four year degree. **Baccalaureate track students must complete two years of pre-requisite college courses BEFORE enrolling in the School of Radiography.** SwedishAmerican does not grant academic credit; however the School has a baccalaureate degree affiliation with the University of St. Francis. This affiliation provides students with an option to earn a Bachelor of Science in Radiography. The University of St. Francis provides pre-professional education, grants academic credit for the hospital-based curriculum, and awards the baccalaureate degree upon successful completion of the hospital certificate program. USF will accept transfer credit from Rock Valley College -- or another accredited college of your choice -- to meet the pre-professional requirements. While enrolled in the SwedishAmerican School of Radiography, the baccalaureate-track student pays tuition to USF and is eligible for the University's financial aid programs. Upon successful completion of the two-year program at SwedishAmerican and the two years of pre-requisite college courses, baccalaureate track students earn a radiography certificate from SwedishAmerican Hospital **and** a Bachelor of Science degree in Radiography -- awarded by the University of St. Francis. Successful completion of the pre-professional courses and the radiography curriculum qualifies the graduate to sit for the ARRT national certification examination and for eligibility for Illinois State licensure.

**Students interested in pursuing the baccalaureate degree option should contact the Coordinator of Allied Health Enrollment, University of St. Francis, 1-800-735-7500. Students may also apply to USF online at [www.stfrancis.edu/admissions/apply.htm](http://www.stfrancis.edu/admissions/apply.htm)**

**ALL students entering the program must either have an associate degree or higher already OR enrolled in the Baccalaureate track through the**

**University of St. Francis. This is a mandatory ruling by the American Registry of Radiologic Technologists (ARRT).**

### ***Transfer Students / Advanced Standing:***

A student previously enrolled in another JRCERT accredited radiography program or who has received certification in another country, may apply for advanced standing. An applicant for advanced standing must complete the regular admissions process, and provide official transcripts from the previous radiography program. The Admission Committee approves admission of a student with advanced standing, and also determines student placement within the program. The School reserves the right to require placement testing. The School also reserves the right to deny any transfer or advanced standing applicant without cause.

***SwedishAmerican School of Radiography will no longer accept Transfer or Advanced Standing Students.***

### ***Program Calendar:***

The School of Radiography covers two academic years, beginning in the summer term of the junior (first) year. Classes begin in mid May. Divisions of the two-year calendar are Professional Phases I, II, III and IV. While enrolled, the student attends 32 to 40 hours per week at SwedishAmerican Hospital, in a combination of classroom, laboratory and clinical experiences. The student must attend during the summer when the program begins and the summer term between the first and second years in the program to complete all required clinical experiences. The program concludes at the end of the spring semester of the senior (second) year. Students complete alternating weeks of didactic and clinical education. The 38 weeks of didactic education include classroom courses and laboratories. The student spends 45 weeks of clinical education in the hospital observing, assisting and performing patient procedures. The didactic and clinical education prepares students for success as practicing radiographers.

### ***Program Curriculum:***

The professional curriculum of the SwedishAmerican School of Radiography follows the standardized *ASRT Curriculum Guide for Radiography Programs*. This document is available for review on the ASRT's website at [www.asrt.org](http://www.asrt.org). Due to the potential for changes in the ASRT requirements, the School of Radiography reserves the right to modify the professional curriculum as necessary to insure the quality of the program and its continued accreditation. A course listing and course descriptions can be found in this *Catalog*.\*\***The Radiography Program will be offering some of its courses in an online format using Canvas software in conjunction with the University of St. Francis. The only difference between an online course and a traditional course is with Blackboard you can “attend” your class at a time that is convenient for you. Like any class, you will read texts and supplemental materials, participate in class discussions, write papers, complete projects and take exams. The radiography**

student enrolled in the program must have access to the following: Please use the link below to view system requirements.

<https://www.stfrancis.edu/admissions/online-students/computer-requirements/>

### **Academic Credit:**

SwedishAmerican Hospital does not award academic credit. The School of Radiography uses a credit hour system to calculate student grade point averages and determine student eligibility for graduation. For clinical courses at SwedishAmerican, students earn 1 credit hour per 100 contact hours. For didactic courses, students earn 1 credit hour per 20 contact hours.

For information on how a student may earn academic credit for completion of SwedishAmerican courses, please contact the University of St. Francis Office of Transfer Student Admissions at 1-800-735-7500.

### **Tuition:**

Certificate track students pay tuition directly to SwedishAmerican Hospital. Total tuition cost for the program is \$6,000. Tuition payments of \$1,500 and any additional online fees are due on the first day of classes for each Phase.

| <b>Phase/Term</b> | <b>Tuition Paym't Due</b> | <b>Due Date</b> |
|-------------------|---------------------------|-----------------|
| Phase I/Summer    | \$ 1,500                  | May 16, 2017    |
| Phase I/Fall      |                           | Aug 22, 2017    |
| Phase II/Spring   | \$ 1,500                  | Jan 3, 2018     |
| Phase III/Summer  | \$ 1,500                  | May 15, 2018    |
| Phase III/Fall    |                           | Aug 14, 2018    |
| Phase IV/Spring   | <u>\$ 1,500</u>           | Jan 2, 2019     |
|                   | <b>\$ 6,000</b>           |                 |

Baccalaureate track students pay tuition directly to the University of St. Francis. Through a tuition sharing agreement, the student does not pay additional tuition to SwedishAmerican.

### **Book Fees:**

The student is responsible for the purchase and cost of required textbooks. Book fees will vary depending on current publisher pricing and instructor textbook selection. Estimated total book costs for both years is approximately \$1800. The most updated edition needs to be purchased.

### ***Housing and Board:***

Effective August 2006, students may reside in Terrace Apartments, hospital-owned 1-bedroom apartments within walking distance to the hospital at a cost of approximately \$500/month. Rent excludes electric and cable/internet/phone service. Each apartment has one bedroom, private bath, living room, and a small kitchenette with stove and refrigerator. Laundry facilities are available in the basement of the building. Parking will be provided on hospital property across the street from the apartments (on the same side of the street as the hospital). **For additional information about apartment availability contact the SwedishAmerican Medical Foundation at 815-489-4347.**

Meals are available to students in the hospital cafeteria, "The Commons", at the employee rate with ID badge. No special board plan or meal tickets are necessary.

### ***Other Student Expenses:***

Students are responsible for the purchase of uniforms (see Dress Code), school patch for uniform, school supplies, books, cost of a pre-entrance physical examination, criminal background check, drug screen, educational conference expenses and travel to and from clinical sites. SwedishAmerican has a hospital in Belvidere which is located approximately 15 miles from the main campus which students will be required to go for clinical. Along with Belvidere, students may be required to travel to other SwedishAmerican Clinics. Costs will vary for each item year to year. **Upon acceptance, each student is required to submit a \$250 NON-REFUNDABLE deposit to hold his or her spot in that years class. Failure to submit this deposit by the stated date will result in a forfeiture of a roster spot.**

Students are required to attend a seminar/conference their senior year. The STUDENT is responsible for any non-funded expenses for the trip which could be the entire cost of the trip. This would include (ALL transportation, Flight cost, hotel, registration, mock registry, food and beverage). Do NOT act surprised if this occurs!

### ***Pre-entrance Physical Exam and Criminal Background Check:***

- Once an applicant has been accepted, he or she must complete a physical examination prior to enrollment. This certifies the student's health status, and documents the student's ability to fulfill the essential functions of the radiographer. The School provides each student with a pre-placement physical examination form. The student then has the exam done by the physician of his or her choice. Once completed, the student must contact **SwedishAmerican Associate Health Services at 779-696-4112** to schedule an appointment to review records before starting the program. Successful completion of the pre-entrance physical is a prerequisite to enrollment in the program. The following are required by Associate Health:
  1. Associate Health will perform a screen for Tuberculosis.
  2. A physical exam form completed by student's personal health care provider done within 3 months of start must be submitted at time of appt.

3. SAHS Associate Health Services will perform a urine drug screen test at time of appt. (student must arrive with full bladder for test).
4. Respiratory mask fit testing will be performed at time of appt. in A.H.S. and is required to be repeated annually.
5. The following vaccination records must be provided to A.H.S. at time of appointment:
  - Proof of immunity to measles, mumps, rubella via documentation of 2 MMR vaccines OR documentation of positive titers.
  - Proof of immunity varicella via documentation of 2 varicella vaccines OR documentation of positive varicella titer.
  - Documentation of Hepatitis B vaccine series AND positive Hepatitis B titer (E.H.S. may provide this vaccine and titer to students if necessary).
  - Tdap vaccination (available in EHS if necessary).
6. Annual TB testing is required of all Radiology students each May and available upon exit.
7. Seasonal flu vaccine will be offered and required of all the students.

In addition, applicants must submit to a **criminal background check** prior to enrollment. The School will provide instructions on how to submit the criminal background check. The **student** is responsible for all fees. The Hospital reserves the right to disqualify applicants based on criminal history. (see Appendix C) Students with a questionable history are advised to complete the pre-application process with the ARRT (American Registry of Radiologic Technologists) prior to applying to the program. Applicants can review this process by accessing the ARRT website: [www.arrt.org](http://www.arrt.org) and clicking on "Ethics" and then "pre-application process".

### ***Financial Aid:***

SwedishAmerican Hospital **does not** administer student financial aid programs. Certificate track students in the School of Radiography are not eligible for financial aid, however once enrolled, may apply for scholarships as available. Baccalaureate track students are eligible for the University of St. Francis financial aid programs. For more information, contact the USF Financial Aid Office at 815-740-3403.

### ***Refund Policies:***

Admission testing fees, and book fees are non-refundable. Current University policies govern refund of baccalaureate track tuition -- please consult the USF Catalog for more information. Refund of certificate track tuition follows the schedule below. A student dismissed from the School of Radiography is not eligible for a tuition refund. The student is responsible for applying for all refunds.

| Number of weeks attended in Phase: | % Tuition refunded |
|------------------------------------|--------------------|
| 1-3 weeks                          | 75%                |
| 4 weeks                            | 50%                |
| 5 weeks                            | 25%                |
| 6 weeks                            | 0 %                |

### ***Student Handbook:***

The School of Radiography *Student Handbook* is available for review by all applicants. Applicants may access the *Student Handbook* on the School's website [www.swedishamerican.org](http://www.swedishamerican.org), Careers, Educational Opportunities, and School of Radiography. *The Handbook* contains the policies and procedures of the Program. An applicant may review a copy of the *Student Handbook* by contacting the Program Director. All students admitted to the School of Radiography receive a *Student Handbook*.

### ***Academic Policies:***

The School of Radiography employs the following grading scale:

|               |   |
|---------------|---|
| 93 - 100%     | A |
| 86 – 92       | B |
| 80 - 85%      | C |
| 79% and below | F |

Each student must maintain an 80% grade average in all required didactic and clinical courses. A student who fails to maintain the minimum required grade average is subject to probation. Failure to improve the grade to the minimum 80% following probation results in student dismissal from the program. Student probation may also result from clinical deficiencies or unprofessional behavior. Depending on the seriousness of the infraction, the School **may** allow each student three probation periods during enrollment. Dismissal from the School will result when it becomes necessary to issue a fourth probation.

### ***Disciplinary Procedures:***

While enrolled in the School of Radiography, all students must conduct themselves professionally. Students must abide by the *American Registry of Radiologic Technologists' Code of Ethics*. Applicants can review this document by accessing the ARRT website: [www.arrt.org](http://www.arrt.org). Students must also comply with the policies and procedures of SwedishAmerican Hospital, the Medical Imaging Department, and the School of Radiography. Any student who does not comply with policies and standards is subject to disciplinary action.

### ***Due Process:***

A student with a grievance or a complaint related to the School's operation or compliance with educational standards -- should follow the School's Grievance or Student Complaint Procedure. These procedures can be found in the *Student Handbook*.

### ***Graduation Requirements:***

In order to be eligible for graduation from the School of Radiography, the student must:

- Complete all required didactic and clinical courses.
- Attain a minimum of a C grade (80%) in all required didactic and clinical courses.
- Complete all required clinical education requirements, including clinical rotation objectives, clinical competency evaluations, and final competencies.



- Complete any make up clinical hours.
- **Complete 1 Developmental Test with an 80% or greater (Includes seminar mock registry). This includes an 80% in each of the 5 DT categories.**
- Pay all tuition and fees payable to SwedishAmerican Hospital.
- Return all hospital property, including ID badges, markers, and dosimeter.
- Being on good status/compliance with school policies and procedures.

See Section 6 of the Student Handbook for further details

The School of Radiography holds a graduation ceremony at the completion of the program, and awards graduates a diploma and a school pin. The graduate must meet all of the above requirements for graduation.

### ***Graduate Certification and Licensure:***

Successful completion of the SwedishAmerican School of Radiography makes the graduate eligible for the national certification examination of the American Registry of Radiologic Technologists (ARRT). Successful completion of the ARRT certification exam entitles graduates to use the professional designation: R.T. (R) "Registered Technologist - Radiography". More information about the certification exam or the technologist registry is available from the ARRT, 1255 Northland Drive, St. Paul, MN 55120-1155, phone (651) 687-0048. Information can also be found at the ARRT website at [www.arrt.org](http://www.arrt.org). Many states also require that radiologic science professionals be licensed. ARRT certification is a prerequisite to state licensure in most states, including Illinois. Information on radiographer licensure is available from the Illinois Emergency Management Agency - Division of Nuclear Safety (IEMA-DNS), 1035 Outer Park Drive, Springfield, IL 62704, and online at [www.iema.illinois.gov](http://www.iema.illinois.gov).

**SwedishAmerican Hospital  
School of Radiography  
Admission Policy**

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***Non-Discrimination Statement***

The SwedishAmerican School of Radiography provides equal opportunity for admission to all individuals regardless of race, color, religion, gender, age, disability or national origin.

***Academic Admission Standards***

1. The applicant must be a high school graduate (or equivalent).
2. Admission procedures require applicants to have completed prerequisite course work with a "C" or better.
  - The applicant must have earned a 2.5 minimum cumulative grade point average in college or higher to be considered for admission. Admission procedures favor applicants with superior academic achievement.
3. ***Required College Courses:***
  - a. The applicant must complete the 9 prerequisite college courses before enrolling in the School of Radiography. A grade of "C" or better is required in all prerequisite courses. The applicant may take these courses at Rock Valley College, the University of St. Francis or another regionally accredited college or university. All prerequisites must be approved by the Program Director. If you have any questions regarding prerequisite courses, contact the Program Director.
  - b. The applicant may submit an application for admission before completing all required courses. The Admission Committee may admit an applicant conditionally, pending completion of the required prerequisites. The applicant must verify successful completion of Spring courses by providing an updated official transcript before classes start in May. Failure to prove prerequisite compliance will result non admittance into the program.

## SwedishAmerican School of Radiography Prerequisites

- **Human Anatomy and Physiology I & II** –  
**For baccalaureate track AND certificate track applicants**, the two Rock Valley College courses BIO 281 “Human Anatomy and Physiology I” **AND** BIO 282 “Human Anatomy and Physiology II” satisfy this requirement  
\*\*\*CHM 120 is a prerequisite for these courses\*\*\*  
**OR**  
the student may complete BIOL 02.221 “Human Anatomy” **AND** BIOL 02.252 “Human Physiology” at the University of St. Francis. Baccalaureate students must take the USF prerequisite course BIOL 124/5 “Principles of Biology I” prior to enrollment in “Human Anatomy” and “Human Physiology.”
- **Speech** --  
**For baccalaureate track AND certificate track applicants**, the Rock Valley College course SPH 131 “Fundamentals of Speech”  
**OR**  
University of St. Francis course ACAF 01.101 “Core I Speech” both satisfy this requirement.
- **Composition or College Writing I** –  
**For baccalaureate track AND certificate track applicants**, the Rock Valley College course ENG 101 “Composition”  
**OR**  
University of St. Francis course ENGL 06.111 “College Writing I” satisfy this requirement.
- **College Algebra** --  
**For baccalaureate track AND certificate track applicants**, the Rock Valley College course MTH 120 “College Algebra” or MTH 220 “Elements of Statistics”  
**OR**  
Completion of the University of St. Francis course MATH 13.105 “Introduction to Statistics” also satisfies this requirement.
- **Chemistry** –  
**For baccalaureate track applicants**, students must complete CHM 120 “General Chemistry I” at Rock Valley College.  
\*\*\*Prerequisite for this course is College Algebra  
**OR**  
CHM 120 “Foundations of Chemistry” at USF.
- **General Psychology**  
**For baccalaureate track AND certificate track applicants**, students must Complete the Rock Valley College course PSY 170 “General Psychology”  
**OR**  
PSYC 111 “General Psychology” at USF.
- **Medical Terminology**  
**For baccalaureate track AND certificate track applicants**, students must Complete the Rock Valley College HLT 110 “Medical Terminology “  
**OR**  
RADG 320 “Medical Terminology” at USF

**Required College General Education / Liberal Arts Courses:**

**For baccalaureate track applicants ONLY**

Admission to the baccalaureate track requires completion of all of these additional courses.

- College Writing II *or* Composition and Literature
- Introduction to Literature *or* a Literature Elective
- Fine Arts Elective
- Foundations of Western Thought *or* Humanities Elective
- Approved History Elective
- Human Behavior & the Social Environment II
- Introduction to Philosophical Thinking
- Approved Philosophy Elective
- Introduction to Theology
- Approved Theology Elective
- Introduction to Radiologic Sciences
- Computer Concepts and Applications

**Additional College Mathematics/ Science/Healthcare-related Courses:**

**For baccalaureate track AND certificate track applicants:**

Although it is not required, the program recommends the applicant complete additional college math, science, and healthcare-related courses that are above the minimum requirements. Admissions procedures favor those applicants who have completed such courses.

**Professional Admission Standards**

1. The applicant must be 18 years of age by May 1, 2018. This is to comply with radiation protection regulations.
2. Due to the nature of employment as a radiologic science professional, the applicant must be able to perform the *Essential Functions of a Radiographer*, as outlined on pages 18- 22.
3. Students admitted to the program must complete the required SwedishAmerican pre-placement physical examination to verify ability to perform *Essential Functions*. The program will not enroll an accepted student who fails to complete the required physical form and have an appointment at Associate Health Services by May 1, 2018.
4. The applicant must be of good moral character, as verified through applicant references. The School requires a criminal background check on each applicant before admission to the program. The applicant must complete the criminal background check before May 1, 2018. Many employers require such checks prior to employment -- including SwedishAmerican Hospital. Additionally, a person with a criminal conviction may not be eligible for ARRT certification.

**To apply for admission to the School of Radiography:**

1. The applicant must submit a completed **electronic** application found on our school's webpage **by November 15th, 2017**. The electronic application software will be available by June 1<sup>st</sup> 2018. Due to the competitive nature of admission to the Program, the applicant is encouraged to apply early. The application must include the names, complete addresses and e-mail addresses of three academic or professional references (**No family**). **It is the responsibility of the applicant to call and make sure all references and application material have been received.**
2. **There is a \$35 application fee.** All fees must be sent in the form of a **money order or certified check** made payable to "SwedishAmerican School of Radiography". Mail the check to the address listed at the bottom of this page. **Applications will not be reviewed until the application fee has been received.**
3. The applicant must provide official high school and **ALL** college transcripts. The high school and college attended must forward official copies of transcripts directly to the Program Director at SwedishAmerican School of Radiography.
4. The applicant must complete the *PSB Health Occupations Aptitude Examination* after application submission. There is a \$30 testing fee for this exam to be paid in cash. Testing is scheduled by appointment. **Applicants are responsible for contacting the School to schedule the testing (779-696-4959).** Applicants who have completed the exam as part of the application process for another program may have their scores forwarded to SwedishAmerican, rather than repeat the exam. Applicants must score a 50 percentile or higher in counted sections, and may take the examination up to 4 times per application cycle. **The applicant is responsible for contacting the other program to have the scores sent to SwedishAmerican.** All admission testing must be completed **by December 15<sup>th</sup>, 2017.**
5. All applicants will be scheduled for an 8-hour day of clinical observation in the SAH Medical Imaging Department as part of the admissions process. **The observation needs to be completed by December 15<sup>th</sup>, 2017. It is the applicant's responsibility to call the school to schedule the observation after the application has been submitted.** (779-696-4959)
6. Based on an admission points system, selected applicants who have successfully completed the above requirements will be contacted for an interview with the School's Program Director and Clinical Coordinator.
7. Applicants seeking admission to the baccalaureate track must contact the University of St. Francis. Call the Director of Allied Health Enrollment at 815-740-5037 for additional information.

**8. Application Fee (\$35)**

**Mail Certified Checks or Money Order of \$35 to:**

**\*\*\*NO PERSONAL CHECKS!**

**SwedishAmerican School of Radiography**

**Program Director**

**1250 E. State St.**

**Rockford, IL 61104**

### **Admission Procedures**

The School of Radiography admits a maximum of ten students per year. Limiting enrollment assures the quality of the student clinical experience. Admission is competitive, and the School of Radiography Admissions Committee makes all admission decisions. A full class of ten students do may not be selected each year.

The Admissions Committee employs an admission points system. The Committee scores each applicant on the following criteria, assigning each criterion a score, and then calculating an average score and sum score for each applicant. An applicant with a high average and sum score will have **preference** in admissions.

1. GPA of prerequisites courses
2. Additional college science, math and/or healthcare-related course grade average
3. Number of additional college science, math and/or healthcare-related courses completed
4. College cumulative grade point average
5. PSB Non Verbal Academic Aptitude Score
6. PSB Academic Aptitude Score
7. PSB Reading Comprehension Score
8. PSB Natural Science Score
9. PSB Vocational Adjustment Score
10. Average of Observation Evaluation scores
11. Average of scores from 3 References
12. Total points earned during interview
13. Healthcare experience bonus points
14. Multiple applicant Points

**The Admissions Committee will consider only fully completed applications.** The Committee will make final admission decisions and notify all applicants of their status **by March 31, 2018**. Students accepted for admission must complete the required pre-entrance physical and appointment with Employee Health Services **and** criminal background check by **May 1, 2018**.

- ***The committee reserves the right to select candidates at their discretion, based on characteristics other than the ones listed above. The committee will not discriminate based on race, religion, ethnic background, age or color.***

## **CRIMINAL BACKGROUND CHECK ON SCHOOL OF RADIOGRAPHY APPLICANTS**

The SwedishAmerican Hospital School of Radiography is required by the Illinois Health Care Workers Background Check Act to perform criminal background checks on program applicants who have been accepted, in compliance with Human Resources policy.– Criminal Background Checks. Applicants that are Illinois-state residents must complete the Uniform Conviction Information Act (UCIA) (or appropriate state agency for out-of-state applicants) application provided along with a check to cover the expense of performing the background check. Acceptance and continuation in the program are contingent upon the results of the background check.

### **SwedishAmerican Hospital School of Radiography STUDENT GRIEVANCE POLICY and PROCEDURE**

Students, as consumers of the educational program offered by the SwedishAmerican Hospital School of Radiography, have the right to file a grievance about issues with which they feel require a response and/or resolution. The SAH School of Radiography prefers to solve problems by internal procedures within the School if at all possible before the formal Student Grievance Procedure is activated.

#### **I. Purpose**

This policy provides a procedure for any radiography student who has a problem, question or complaint regarding any aspect of their enrollment, to have the complaint reviewed by appropriate authorities. This procedure also applies to terminated students. Other issues include:

- A. Alleged discrimination on the basis of age, sex, race, handicap or other conditions, preferences or behavior, excluding sexual harassment complaints.
- B. Sexual harassment complaints should be directed to the HR Business Partner. Because of the sensitive nature of this kind of complaint, a conference with the HR Director will replace the first step of the grievance procedure. The HR Director will counsel with the student to determine the appropriate action that is required.
- C. Academic matters, except where the conditions in item A above apply.
- D. Disciplinary actions, including termination, which may be imposed on a student.
- E. Other

#### **II. Definition**

A problem, question, or complaint may become a formal grievance if the results of a conference with the student's instructor or Program Director are not satisfactory to him/her.

#### **III. Procedure**

#### A. First Step

The student must go to the instructor where the alleged problem originated. An attempt will be made to resolve the matter equitably and informally at this level. The conference must take place within 5 working days of the incident which generated the complaint. **If the matter cannot be resolved at the adjournment of the meeting or within 5 working days, the student should move to the second step in the process.**

#### B. Second Step

In cases where the instructor is not the Program Director, a meeting with the Program Director may be requested after the student's initial meeting with the instructor if resolution to the complaint is not reached. This meeting must take place within 3 days of the initial meeting. **The Program Director's decision should be communicated to the student within 5 days of their meeting.**

#### C. Third Step

If a satisfactory outcome is not possible after the second step, the student may file a formal grievance in writing to the Program Director within 5 days of the meeting, requesting a hearing with the Executive Committee. A meeting with the Executive Committee must take place within 10 days of receipt of the formal letter. The Executive Committee serves as the Program's Grievance Committee. In cases of grievance, the Executive committee will only consist of the Program Director, Clinical Coordinator, Director of Medical Imaging, Manager of Medical Imaging, Medical Director and Director of the School of Radiation (USF). **Notification of the outcome of the meeting should be within 5 days of the meeting.** If student feels a satisfactory resolution has not been reached, then the "Last Step" of the procedure may be implemented.

#### D. Last Step

If the student is not satisfied with the response of the Executive Committee, the student has one last opportunity for appeal. A written notice of appeal must be received within 5 days of the meeting of the Executive Committee. A meeting with the Appeal Committee must take place within 10 days of receipt of the notice of appeal. The Appeal Committee is composed of the Vice President of Human Resources and the Vice President of Clinical Services. **Notification of the outcome of the meeting should be within 5 days of the meeting.** The decision of the Appeals Committee is final.

Failure on the part of the student to comply with the steps as outlined in this process will result in termination of the process.

The Student Grievance Policy is available to students in the ***Student Handbook*** and a copy is available in the School office.



**SwedishAmerican Hospital  
School of Radiography**

**COMPLAINT RESOLUTION PROCEDURE**

The Joint Review Committee on Education in Radiologic Technology accredits the SwedishAmerican Hospital School of Radiography. This accreditation is important because it indicates that the program is committed to academic excellence, health care quality and patient and professional safety. JRCERT accreditation demonstrates that a program adheres to the national educational standards that have been accepted by the profession. **The Standards for an Accredited Educational Program in Radiologic Sciences (STANDARDS) are available upon request in the Program Director's office.** Students who have concerns regarding the program's compliance with the **STANDARDS** should follow the procedures outlined in the program's Grievance Procedure. If the student does not feel that the program and the Hospital have satisfactorily addressed the complaint, the student may contact the JRCERT with the concern. The JRCERT can be contacted at:

Joint Review Committee on Education in Radiologic Technology  
20 N. Wacker Drive  
Suite 2850  
Chicago, IL 60606-3182

Phone: 312-704-5300  
Email: [mail@jrcert.org](mailto:mail@jrcert.org)

**SwedishAmerican Hospital  
School of Radiography  
Essential Functions of a Radiographer**

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***Description of the Profession of Radiography:***

Radiography is the art and science of performing x-ray examinations for medical diagnosis. The radiographer obtains medical images upon the request of a physician, for diagnostic interpretation by a radiologist. The radiographer operates high voltage equipment and applies x-radiation to the patient's body to produce a radiograph – a medical image of patient anatomy and physiology. The radiographer exercises professional judgment in the performance of procedures and maintains the ethical standards of the profession. The radiographer provides patient care and adapts the exam as appropriate to patient condition. The radiographer selects the x-ray equipment, exposure factors and accessory devices necessary for the exam. The radiographer provides radiation protection for self, the patient, and other health care workers.

The practice of radiography is performed by persons proven competent through completion of an approved educational program that includes clinical experience. Following entry into the profession, areas of specialization for a radiographer include the modalities of computed tomography, ultrasonography, cardiovascular and interventional angiography, mammography, nuclear medicine, magnetic resonance imaging and radiation therapy.

Persons contemplating educational preparation to enter this profession should be aware of the *Essential Functions* of the radiographer. Applicants to the program should use the *Essential Functions* to guide their career decision-making and to estimate their potential for success in the field.

***Scope of Practice of the Radiographer:***

- 1. The radiographer performs radiographic procedures and assists in performance of fluoroscopic and invasive procedures, for the purpose of medical diagnosis or interventional treatment. As a medical imaging specialist, the radiographer performs the following duties and responsibilities.**
  - The radiographer operates handles and manipulates radiographic and fluoroscopic equipment and accessories.
  - The radiographer uses strength, coordination and dexterity to transport portable radiographic equipment, manipulate the overhead x-ray tube, operate machine controls and locks, and lift cassettes, grids or other devices weighing up to 50 lb.
  - The radiographer assists the radiologist in the performance of fluoroscopic and invasive procedures. The radiographer may perform non-interpretive fluoroscopic procedures as appropriate and consistent with state statutes.
  - The radiographer performs quality assurance and quality control checks.
  - The radiographer visually evaluates images for image quality, exposure factors and proper patient positioning.

- The radiographer uses critical thinking skills and sound judgment in decisions to repeat poor quality images. The radiographer is able to accurately correct technical errors and overcome clinical problems.
  - The radiographer detects equipment malfunctions and takes appropriate actions.
  - The radiographer listens and responds appropriately and timely to auditory warnings – patient sounds, alarms in the exam room, equipment sounds, fire alarms and PA announcements.
  - The radiographer efficiently and accurately performs required mathematical calculations for x-ray technique selection and contrast media dosing.
  - The radiographer uses good judgment in situations where the procedure should be delayed or modified – or where the ordering physician or the radiologist should be consulted.
  - The radiographer applies principles of radiation protection in clinical practice, recognizing the professional responsibility to reduce the risk of unnecessary radiation exposure to patients and self. The radiographer uses radiation protection apparel appropriately (lead gloves, aprons, and shields).
  - The radiographer shows a dedication to obtain only high quality medical images – allowing for appropriate therapy to improve the patient's health through accurate and timely medical diagnosis.
- 2. The radiographer performs diagnostic services while also providing for the physical and psychological needs of the patient. As a patient care provider, the radiographer performs the following duties and responsibilities.**
- The radiographer communicates effectively with patients, their families, other health care workers and physicians.
  - The radiographer obtains a patient clinical history as required for the procedure. The radiographer documents all pertinent information, and makes this information available to the radiologist.
  - The radiographer provides patient education and instruction – to allow informed patient consent, to minimize patient anxiety, and to ease the performance of the procedure.
  - The radiographer documents information accurately and legibly in the written and electronic patient record.
  - The radiographer assists the radiologist in the administration of contrast media and drugs to patients during procedures.
  - The radiographer obtains and records vital signs – temperature, pulse, respiration and blood pressure.
  - The radiographer performs venipuncture and administers intravenous contrast as allowed by department protocol and state law. The radiographer monitors the patient for signs of contrast reaction and provides appropriate patient care if anaphylaxis occurs.
  - The radiographer has the physical, intellectual, and emotional ability to recognize and respond to emergency situations – providing first aid, patient care and CPR as necessary.
  - The radiographer is capable of handling stressful situations, making informed decisions and giving emotional support to patients and their families.
  - The radiographer uses strength to lift, move, position and transport patients – without causing undue pain or discomfort to the patient or self. This includes moving patients from bed to wheelchair or cart, from wheelchair or cart to radiographic table,

moving the patient while on the radiographic table, transporting patients in wheelchairs and on carts, and assisting patients while walking.

- The radiographer uses coordination and dexterity in handling patient care equipment and accessories such as intravenous pumps, venipuncture supplies, urinary catheters, enema supplies, and immobilization devices.
- The radiographer provides appropriate care specific to the age of the patient.
- The radiographer applies principles of infection control, aseptic technique and standard precautions to protect the patient and self from risk of infectious disease.

**3. The radiographer maintains values congruent with the *ARRT Code of Ethics* and the profession's scope of practice – and adheres to national, institutional and departmental standards and policies regarding procedural protocol and patient care. As a health care professional, the radiographer performs the following duties and responsibilities.**

- The radiographer conducts herself or himself professionally, responds to patient needs and supports colleagues and associates in providing quality patient care.
- The radiographer acts to advance the principle objective of the profession – to provide patient services with full respect for human dignity.
- The radiographer delivers patient care and service unrestricted by the concerns of personal attributes or the nature of the disease or illness, and without discrimination on the basis of sex, race, creed, religion or socioeconomic status.
- The radiographer practices technology founded upon theoretical knowledge and concepts, uses equipment and accessories consistent with their designed purposes, and employs procedures and techniques appropriately.
- The radiographer assesses situations; exercises care, discretion and judgment; assumes responsibility for professional decisions; and acts in the best interest of the patient.
- The radiographer acts as an agent through observation and communication. The radiographer obtains pertinent information for the physician to aid in the diagnosis and treatment of the patient. The radiographer recognizes that interpretation and diagnosis are outside the scope of practice for the profession.
- The radiographer uses equipment and accessories, employs techniques and procedures, and performs services in accordance with an accepted standard of practice. The radiographer demonstrates expertise in minimizing radiation exposure to the patient, self and other members of the health care team.
- The radiographer practices ethical conduct appropriate to the profession and protects the patient's right to quality radiologic technology care.
- The radiographer respects confidences entrusted in the course of professional practice. The radiographer respects the patient's right to privacy and reveals confidential information only as required by law or to protect the welfare of the individual or the community.
- The radiographer continually strives to improve knowledge and skills by participating in continuing education and professional activities, sharing knowledge with colleagues and investigating new aspects of professional practice.

**The following is a list of the everyday functions that a radiographer needs to be able to perform at the hospitals or outpatient facilities.**

**Please read the essential functions and decide if you are able to perform them. If you cannot, you may want to re-consider radiography as a career choice for you.**

**After acceptance into the Radiography Program, if you have a documented disability, we will make every effort to provide reasonable accommodations for you. If reasonable accommodations cannot be made and/or the patient would be placed at risk, your acceptance to the Radiography**

**Program would have to be rescinded.**

**1. Observational skills:**

**Examples:**

- Assess the patient's needs.**
- Able to discern the information that is needed for the procedure at hand.**
- Recognize the need for prompt medical attention in a variety of settings and locations.**
- Discern the details, density, and contrast of a radiographic image in order to determine if it is optimal for the radiologist's interpretation.**
- Distinguish among the chromatic colors.**
- Be able to use peripheral vision.**
- Judge the distance of objects and the spatial relationship of objects at different distances.**
- Detect changes in equipment operation (i.e., overheating, incorrect meter readings).**
- Secure the correct chemical container and/or medication.**

**2. Communication skills:**

**Examples:**

- Communicate with other health care providers.**
- Perceive the patient's oral communication with the ear**
- Be able to hear sounds of a high pitch (e.g., patient's monitoring equipment).**
- Be able to hear sounds of a low pitch (e.g., patient's breathing patterns).**
- Perceive the patient's nonverbal communication.**
- Secure information (i.e., questioning of the patient).**
- Communicate promptly and effectively in English both verbally and in writing.**
- Communicate with the patient and the public on a level that they are able to comprehend.**
- Communicate effectively in medical terminology with the physician and other health personnel.**
- Respond to directives from others related to patient care and emergency situations.**
- Display compassion, empathy, integrity, concern for others, interest, and motivation.**
- Obtain pertinent information from the patient's chart.**
- Obtain information that is requested by the physician in order to make a diagnosis.**
- Document in writing, through knowledge of the medical terms, good grammar, and spelling, information needed on the patient's requisition for an optimum diagnosis by the radiologist.**

- **Document the vital sign findings for the use of other health care personnel.**

### **3. Motor skills:**

#### **Examples:**

- **Tolerate physically taxing workloads.**
- **Safely lift from a lower to a higher position a minimum of 50 pounds and occasionally as much as 75 pounds.**
- **Be able to carry an object weighing as much as 25 pounds in order to transport it from one place to another.**
- **Be able to draw, drag, haul, or tug an object(s) weighing more than 100 pounds or the patient's weight.**
- **Be able to push an object(s) with steady force in order to thrust forward, downward, or outward weighing more than 100 pounds or the patient's weight.**
- **Be able to stoop/bend, squat, crouch, kneel, crawl, climb, and reach above shoulder level.**
- **Sufficient gross and fine motor coordination to respond promptly, manipulate equipment, and ensure patient safety.**
- **Perceive the attributes of an object(s) such as size, shape, temperature, or texture by touching with the skin, particularly that of the fingertips.**
- **Elicit information from a patient by diagnostic maneuvers (i.e., palpation).**
- **Safely manipulate and use controls (i.e., the x-ray tube that is located up to six feet from the radiographic/fluoroscopic room floor).**
- **Be able to use the fingers/hands in repetitive actions such as picking, pinching, writing, firm grasping, and twisting/turning.**
- **Skillfully use precision instruments.**
- **Maintain an upright, erect position with the entire body supported by the feet for as long as 7 hours during the work day.**
- **Function efficiently while wearing lead protective apparel.**
- **Safely perform procedures.**
- **Utilize the equipment needed to obtain temperature, pulse, respiration, and blood pressure.**
- **Enter data into the computer.**

### **4. Cognitive functions:**

#### **Examples:**

- **Ability to adapt to a crisis situation, flexible schedules, and/or change in environment.**
- **Function effectively under stressful conditions.**
- **Concentrate on the task at hand.**
- **Visually concentrate and/or focus thoughts or efforts for long periods of time.**
- **Exercise independent judgment and discretion in the safe technical performance of medical imaging procedures.**

**SwedishAmerican Hospital School of Radiography Course Listing:**

**Professional Phase I**

**Summer Session**

|             |                                       |   |
|-------------|---------------------------------------|---|
| RADG 42.301 | Radiography Clinical Orientation      | 2 |
| RADG 42.310 | Intro. To Clinical Radiologic Science | 2 |
| RADG 42.331 | Methods of Patient Care               | 3 |

**Fall Session**

|             |                                   |   |
|-------------|-----------------------------------|---|
| RADG 42.350 | Radiographic Physics              | 3 |
| RADG 42.380 | Radiographic Procedures I         | 5 |
| RADG 42.430 | Radiographic Pharmacology         | 2 |
| RADG 42.305 | Radiography Clinical Experience I | 3 |

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**Professional Phase II – Spring Session**

|             |                                    |   |
|-------------|------------------------------------|---|
| RADG 42.371 | Radiographic Imaging               | 3 |
| RADG 42.381 | Radiographic Procedures II         | 5 |
| RADG 42.440 | Radiographic Pathology I           | 2 |
| RADG 42.335 | Ethics and Law (online)            | 2 |
| RADG 42.307 | Radiography Clinical Experience II | 3 |

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**Professional Phase III**

**Summer Session**

|             |                                     |   |
|-------------|-------------------------------------|---|
| RADG 42.481 | Special Procedures                  | 3 |
| RADG 42.372 | Digital Radiography and PACS        | 2 |
| RADG 42.421 | Sectional Anatomy                   | 2 |
| RADG 42.407 | Radiography Clinical Experience III | 3 |

**Fall Session**

|             |  |   |
|-------------|--|---|
| RADG 42.410 | Radiographic Critique I                                | 2 |
| RADG 42.460 | Health Care and Radiology Administration<br>I (online) | 1 |
| RADG 42.441 | Pathology II   | 2 |
| RADG 42.360 | Radiobiology and Radiation Protection                  | 2 |
| RADG 42.408 | Radiography Clinical Experience IV                     | 5 |

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**Professional Phase IV – Spring Session**

|             |   |   |
|-------------|---|---|
| RADG 42.411 | Radiographic Critique II                                | 2 |
| RADG 42.461 | Health Care and Radiology Administration<br>II (online) | 1 |
| RADG 42.450 | Quality Management                                      | 2 |
| RADG 42.491 | Radiography Registry Review                             | 3 |
| RADG 42.409 | Radiography Clinical Experience V                       | 4 |

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**Total Credits for Radiography Professional Education:**

**69**

**Phase I Courses:**  
**Summer Session**

**COURSE NAME:** Radiography Clinical Orientation  
**COURSE NUMBER:** RADG 42.301  
**PHASE:** I  
**CREDIT HOURS:** 2.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**RECOMMENDED PREREQUISITES:** Medical Terminology, RADG 42.101 Introduction to Radiologic Sciences  
**COREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences, RADG 42. 331 Methods of Patient Care

**COURSE DESCRIPTION:**

This course provides an orientation to the imaging department and clinical environment. The student will complete seven 6-hour observations (Fridays of the didactic week) in assigned radiographic areas within the Medical Imaging department to gain an introductory understanding of the functioning of the department and radiographic process. During six-weeks of clinical experience, the student will also complete rotations in the non-radiographic areas in the department (patient transport, file room, reception desk) to integrate knowledge and skills acquired in the co-requisite courses, Methods of Patient Care, Introduction to Radiologic Sciences and Medical Terminology.

**COURSE NAME:** Introduction to Clinical Radiologic Sciences  
**COURSE NUMBER:** RADG 42. 310  
**PHASE:** I  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury MS, RT(R)(CT)  
**PREREQUISITE:** Medical Terminology, RADG 42.101 Introduction to Radiologic Sciences  
**COOREQUISITES:** RADG 42.301 Radiography Clinical Orientation, RADG 42.331 Methods of Patient Care

**COURSE DESCRIPTION:**

This course provides the student with an overview of radiography and radiation therapy, and their roles in health care delivery. It includes orientation to the SwedishAmerican Health System, departmental orientation and program orientation. The course outlines student responsibilities through a review of all pertinent policies and procedures. The course outlines the structure of the health system and roles of various departments and health professionals. The course includes other introductory topics to ease the student's transition into clinical experience. These topics include: introduction to quality customer service, dynamics of learning, the history of medicine and radiologic technology, imaging equipment and examinations, ethics, law and professional development in radiologic technology, economics of radiology, quality assurance, and radiation safety. The course also covers the professional organizations involved in the certification of radiologic professionals and accreditation of educational programs.



**COURSE NAME:** Methods of Patient Care  
**COURSE NUMBER:** RADG 42. 331  
**PHASE:** I  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**RECOMMENDED PREREQUISITES:** Medical Terminology, RADG 42.101 Introduction to Radiologic Sciences  
**COREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences, RADG 42.301 Radiography Clinical Orientation

**COURSE DESCRIPTION:**

This course provides the student with the basic concepts of patient care, including consideration for the physical, developmental and psychological needs of the patient and family. The course covers routine and emergency patient care procedures including: basic EKG, infection control, patient assessment, patient education, venipuncture and contrast injection, introduction to pharmacology, and interacting with the terminally ill. The course includes certification in cardiopulmonary resuscitation and clinical demonstration of patient care skills.

**Phase I Courses**  
**Fall Session**

**COURSE NAME:** Radiologic Physics  
**COURSE NUMBER:** RADG 42.350  
**PHASE:** I  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury MS, RT(R)(CT )  
**PREREQUISITES:** College Algebra or Statistics, General Inorganic Chemistry, RADG 42.310 Intro to Radiologic Sciences

**COURSE DESCRIPTION:**

This course reviews the concepts of atomic structure and electromagnetism, and study of radiation -- its nature, production and medical applications. Covered topics include: the electromagnetic spectrum, radioactivity and half life, x-ray production and characteristics, the effects of technique selection on beam quality and quantity, the interaction of radiation with matter, and the circuitry and design of radiologic equipment. The course emphasizes clinical applications of physics concepts in the safe operation of high voltage radiologic equipment

**COURSE NAME:** Radiographic Procedures I  
**COURSE NUMBER:** RADG 42. 380  
**PHASE:** I  
**CREDIT HOURS:** 5  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**REQUIRED PREREQ:** BIO 281 & 282 Anatomy & Physiology I & II, RADG 42.331 Methods of Patient Care

**COURSE DESCRIPTION:**

This course employs anatomy review, positioning demonstrations, and presentation of radiographs of the human body. The student learns the routine examinations and selected non-routine radiographic examinations of the following body segments: chest, abdomen, upper extremity, digestive system and urinary system. The curriculum integrates the Radiographic Procedures course and the Radiographic Clinical Experience course. It promotes student clinical competence in all assigned radiographic procedures as well as a thorough knowledge of related anatomy and positioning theory and concepts. As the course progresses, it integrates clinical applications of radiation protection and technique selection as appropriate. This course includes laboratory experiences

**COURSE NAME:** Pharmacology  
**COURSE NUMBER:** RADG 42. 430  
**PHASE:** I  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury, MS, RT(R)(CT)  
**PREREQUISITES:** RADG 42. 330 Methods of Patient Care, Medical Terminology, RADG 42.310 Intro to Radiologic Science

**COURSE DESCRIPTION:**

This course explores the role of the radiographer in the administration of contrast media and related medications. Covered topics include: the radiographer scope of practice, legal implications, pharmacology overview, drug measurements and dose calculations, contrast media, preventive care and emergency response to contrast media reactions, imaging pharmaceutical compatibility, select drug administration techniques, and documentation requirements.

**COURSE NAME:** Radiography Clinical Experience I  
**COURSE NUMBER:** RADG 42.305  
**PHASE:** I  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS RT(R)  
**PREREQUISITES:** RADG 42. 331 Methods of Patient Care, RADG 42.310 Introduction to Clinical Radiologic Sciences, Medical Terminology, RADG 42.301 Radiography Clinical Orientation

**COURSE DESCRIPTION:**

In this course, the student progresses through a series of clinical rotation assignments which reinforce and provide opportunities for observation, assistance and participation in radiographic procedures which are covered in the Radiographic Procedures I course and patient care skills covered in the Methods of Patient Care course. Emphasis is placed on application of concepts in the actual performance of procedures. Students will complete 3 hours of clinical experience in general and fluoroscopic radiographic procedures under direct supervision of a radiographer. The student will begin documenting competency in radiographic and patient care procedures.

**Phase II Courses**  
**Spring Session**

**COURSE NAME:** Radiographic Imaging  
**COURSE NUMBER:** RADG 42.371  
**PHASE:** II  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Connie Salsbury MS, RT(R)(CT)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences RADG 42.301 Radiography Clinical Orientation, Medical Terminology, RADG 42.331 Methods of Patient Care, RADG 42.350 Radiographic Physics, RADG 42.430 Radiographic Pharmacology

**COURSE DESCRIPTION:**

This course provides the student with the knowledge of x-ray generation and the prime factors that govern and influence the production of x-rays. It is designed to develop the student's understanding of radiographic quality, the photographic and geometric properties which control and influence radiographic quality (density, contrast, detail, and distortion), technical factor selection systems including automatic exposure control, and accessory radiographic devices (beam restriction, filtration, grids). This course includes demonstrations and laboratory activities to reinforce concepts. Problem solving and critical thinking skills will be emphasized in technique formulation and exposure calculations.

**COURSE NAME:** Radiographic Procedures II  
**COURSE NUMBER:** RADG 42. 381  
**PHASE:** II  
**CREDIT HOURS:** 5  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**PREREQUISITES:** Human Anatomy & Physiology I & II  
RADG 42. 380 Radiographic Procedures I, RADG 42.350 Radiographic Physics, RADG 42.331 Methods of Patient Care, RADG. 42.430 Pharmacology

**COURSE DESCRIPTION:**

This course is a continuation of Radiographic Procedures I, and includes all routine and selected non-routine procedures of the: lower extremity, spine, bony thorax, cranium, facial bones and sinuses. The course includes laboratory, and is integrated with the Radiographic Clinical Experience course. Following completion of Procedures II, the student is able to perform all routine radiographic examinations. The student must integrate concepts from radiation protection and exposure technique to produce optimal quality diagnostic radiographs with minimal radiation exposure to the patient. This course is a continuation of the Junior level Radiography Clinical Experience, utilizing week long clinical rotation assignments. Emphasis is on continued development of clinical competency and professional development

**COURSE NAME:** Radiographic Pathology I  
**COURSE NUMBER:** RADG 42. 440  
**PHASE:** II  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury, MS, RT(R)(CT)  
**PREREQUISITES:** Medical Terminology, Human Anatomy & Physiology I & II, RADG 42.380 Radiographic Procedures I, RADG. 42.305 Radiographic Clinical Experience I, RADG 42.331 Patient Care

**COURSE DESCRIPTION:**

This course presents a body system approach to the demonstration of human diseases through medical imaging. The course emphasizes adaptations of routine positioning and radiographic technique to best demonstrate pathology and maximize diagnostic quality. Covered topics include patient care considerations relative to disease processes. Discussions include which imaging method or modality will best demonstrate each pathological condition. The course includes review of radiographs and films from Computed Tomography, Ultrasound, Magnetic Resonance, Mammography, Special Procedures and Nuclear Medicine. Systems covered include the respiratory, skeletal, gastrointestinal, and urinary.

**COURSE NAME:** Ethics and Law in the Radiologic Sciences  
**COURSE NUMBER:** RADG 42.335  
**PHASE:** II  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** TBA (through USF)  
**PREREQUISITES:** RADG 42.330 Methods of Patient Care, RADG 42.310 Introduction to Radiologic Sciences, RADG 42.350 Radiographic Physics, RADG 42.380 Radiographic Procedures I, RADG 42.430 Pharmacology

**COURSE DESCRIPTION:**

This course provides the student with an understanding of the parameters of professional practice and the legal and ethical responsibilities of the radiologic sciences professional. Covered topics include: elements of ethical behavior, ethical issues and dilemmas in health care, interacting with the terminally ill patient, the scope of practice of radiologic sciences professionals, sources of law, elements of malpractice, employment issues, and litigation. The course emphasizes the student's ability to apply concepts of ethics and law in the development of professional attributes. Course requirements include leading class discussions of issues and case studies.

**COURSE NAME:** Radiography Clinical Experience II  
**COURSE NUMBER:** RADG 42.307  
**PHASE:** II  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences, RADG 42.350 Radiographic Physics, RADG 42.380 Radiographic Procedures I, RADG 42.430

**Pharmacology, RADG 42.331 Patient Care, RADG 42.305 Radiography Clinical Experience I**

**COURSE DESCRIPTION:**

This course is a continuation of Radiography Clinical Experience I. Students complete clinical rotation assignments in which reinforce and provide opportunities for observation, assistance and participation in radiographic procedures which are covered in the Radiographic Procedures II course and patient care skills covered in the Methods of Patient Care course. Emphasis is placed on application of concepts in the actual performance of procedures.

**Phase III Courses**

**Summer Session**

**COURSE NAME:** Special Procedures  
**COURSE NUMBER:** RADG 42.481  
**PHASE:** III  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Stefanie Gardner, BS, RT(R)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences, RADG 42.301 Radiography Clinical Orientation, RADG 42.305 & 42.307 Radiography Clinical Experience I & II, RADG 42.380 & 42.381 Radiographic Procedures I & II, RADG 42. 440 Radiographic Pathology I, RADG 42.350 Radiographic Physics, RADG 42.371 Radiographic Imaging

**COURSE DESCRIPTION:**

This course covers the advanced radiographic, fluoroscopic and invasive procedures, emphasizing patient care, procedural protocol, and equipment and accessories used. This course covers the following topic areas: trauma radiography, pediatric and geriatric radiography, special procedures (eg. Myelography, sialography etc.) and tomography. Opportunities to explore advanced imaging modalities (CT, MRI, and cardiovascular interventional procedures, Nuclear Medicine, Radiation Therapy, Ultrasound, Mammography and Bone Densitometry) are also provided in this course.

**COURSE NAME:** Digital Radiography and PACS  
**COURSE NUMBER:** RADG 42.372  
**PHASE:** III  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury, MS, RT(R)(CT)  
**PREREQUISITES:** RADG 42.350 Radiographic Physics, RADG 42.371 Radiographic Imaging, RADG 42.380 & 42.381 Radiographic Procedures I & II, RADG 42.305 & 42.307 Clinical Experience I & II

**COURSE DESCRIPTION:**

This course provides the student with knowledge of how to acquire, process, and produce clear radiographic images using CR/DR equipment. How to work with CR/DR workstations, including advanced image processing and manipulation functions. The student will understand PACS workstations, archiving solutions, and system architectures. The course will cover the most effective techniques for digitizing film,

printing images, and preparing image files. Comprehensive quality control and management guidelines for PACS, CR, and DR

**COURSE NAME:** Sectional Anatomy  
**COURSE NUMBER:** RADG 42.421  
**PHASE:** III  
**CREDIT HOURS:** 2.0  
**INSTRUCTOR:** Connie Salsbury MS, RT(R) (CT)  
**REQ'D** Human Anatomy and Physiology I & II  
**PREREQUISITES:** RADG 42.380 & 42.381 Radiographic Procedures I & II, RADG 42.440 Radiographic Pathology I

**COURSE DESCRIPTION:**

This course provides the student with an understanding of anatomy from a three dimensional perspective. The study of anatomy in the transverse, sagittal, and coronal planes enhances the student's understanding of gross anatomy and patient positioning. The course provides clinical application of information to the cross sectional imaging modalities of Computed Tomography and Magnetic Resonance Imaging. The course utilizes a body region approach to sectional anatomy, and emphasizes the location and relative position of the structures studied.

**COURSE NAME:** Radiography Clinical Experience III  
**COURSE NUMBER:** RADG 42.407  
**PHASE:** III  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences , RADG 42.301 Radiography Clinical Orientation, RADG 42.380 & 42.381 Radiographic Procedures I & II, RADG 42.305 & 42.307 Radiography Clinical Experience I & II,

**COURSE DESCRIPTION:**

This course is a continuation of Radiography Clinical Experience II. The course emphasizes the continued development of clinical competency and professional development. Senior students complete clinical rotation assignments which reinforce and provide opportunities for observation, assistance and participation in radiographic procedures which are covered in the Procedures and Special Procedures courses and patient care skills covered in the Methods of Patient Care course. Emphasis is placed on application of concepts in the actual performance of procedures. Students will complete 320 hours of clinical experience in general radiographic and fluoroscopic procedures and trauma radiography under direct and/or indirect supervision of a radiographer as appropriate. The student will continue attaining, maintaining and documenting competency in radiographic procedures. Students are also provided an opportunity to observe in some of the advanced imaging modality departments.

**Phase III**  
**Fall Session**

**COURSE NAME:** Radiographic Critique I  
**COURSE NUMBER:** RADG 42. 410  
**PHASE:** III  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**PREREQUISITES:** RADG 42.380 Radiographic Procedures I, RADG 42. 381 Radiographic Procedures II, RADG 42. 371 Radiographic Imaging I, RADG 42.372 Radiographic Imaging II, 42.305 Radiography Clinical Experience I, RADG 42.307 Radiography Clinical Experience II, RADG 42.407 Radiography Clinical Experience III

**COURSE DESCRIPTION:**

Through the evaluation of radiographs, the student integrates concepts learned in previous course work to critique the diagnostic quality of radiographs at the viewbox. This course emphasizes critical thinking, synthesis of information from across the curriculum, and the application of theory in practice. Covered topics include guidelines for radiographic technique, and radiographic critique of the chest, abdomen, upper extremity, lower extremity, hip and pelvis.

**COURSE NAME:** Health Care and Radiology Administration I  
**COURSE NUMBER:** RADG 42. 460  
**PHASE:** III  
**CREDIT HOURS:** 1  
**INSTRUCTOR:** TBA (through USF)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences, RADG 42.335 Ethics and Law in the Radiologic Sciences

**COURSE DESCRIPTION: \*\*ONLINE\*\***

This course provides the student with a comprehensive overview of the history, development and features of the US health care delivery system. Presented topics include introductions to health care finance, economics, and health insurance. The course focuses on the forces and concepts driving health care today. Course discussions include how these changes are likely to affect the future of the industry, the delivery of radiologic services, and the individual health care worker.

**COURSE NAME:** Radiographic Pathology II  
**COURSE NUMBER:** RADG 42. 441  
**PHASE:** III  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury, MS, RT(R)(CT)  
**PREREQUISITES:** Human Anatomy & Physiology I & II, Medical Terminology, RADG 42. 440 Radiographic Pathology I, RADG 42.380 Radiographic Procedures I, 42.381 Radiographic Procedures II

**COURSE DESCRIPTION:**

This course is a continuation of RADG 42.440, covering pathology of the following body systems: cardiovascular, nervous, hematopoietic system, endocrine, reproductive, and miscellaneous disorders.

**COURSE NAME:** Radiobiology & Radiation Protection  
**COURSE NUMBER:** RADG 42.360  
**PHASE:** III  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury MS, RT(R)(CT)  
**PREREQUISITES:** Human Anatomy & Physiology I & II, RADG 42. 350 Radiologic Physics, RADG 42.371 Radiographic Imaging I, RADG 42.372 Radiographic Imaging II

**COURSE DESCRIPTION:**

The radiation biology segment of this course provides an overview of the principles of the interaction of radiation with living systems. The course presents the effects of irradiation of biological molecules and organisms, and the factors affecting biological response. Covered topics include: early and late effects of radiation exposure, epidemiological studies of radiation effects, and the acute radiation syndromes.

The radiation protection segment of this course provides the student with an overview of the principles and practices of radiation protection. The course emphasizes the responsibility of the radiologic sciences professional in providing radiation protection to the patient, personnel and the public. The concepts covered include: ALARA (As Low As Reasonably Achievable) NID (Negligible Individual Dose), the dose limiting standards, radiation detection and measurement, radiation protection regulations, advisory and regulatory agencies and their roles, and clinical applications of radiation protection principles.

**COURSE NAME:** Radiography Clinical Experience IV  
**COURSE NUMBER:** RADG 42.408  
**PHASE:** III  
**CREDIT HOURS:** 4.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences, RADG 42.301 Radiography Clinical Orientation, RADG 42.380 Radiographic Procedures I, RADG 42.381 Radiographic Procedures II, RADG 42.305 Radiography Clinical Experience I, RADG 42.307 Radiography Clinical Experience II, RADG 42.407 Radiography Clinical Experience III

**COURSE DESCRIPTION:**

This course is a continuation of the Radiography Clinical Experience III. The course emphasizes the continued development of clinical competency and professional development. Senior students complete clinical rotation assignments which reinforce and provide opportunities for observation, assistance and participation in radiographic procedures which are covered in the Procedures and Special Procedures courses and patient care skills covered in the Methods of Patient Care course. Emphasis is placed on application of concepts in the actual performance of procedures. Students will complete 400 hours of clinical experience in general radiographic and fluoroscopic procedures and trauma radiography under direct and/or indirect supervision of a radiographer as appropriate. The student will continue attaining, maintaining and



documenting competency in radiographic procedures. Students are also provided an opportunity to observe in some of the advanced imaging modality departments.

**Phase IV Courses**  
**Spring Session**

**COURSE NAME:** Radiographic Critique II  
**COURSE NUMBER:** RADG 42. 411  
**PHASE:** IV  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**REQUIRED PREREQ:** RADG 42.380 Radiographic Procedures I, RADG 42.381 Radiographic Procedures II, RADG 42. 371 Radiographic Imaging I, RADG 42.372 Radiographic Imaging II, RADG 42. 410 Radiographic Critique I

**COURSE DESCRIPTION:**

Critique II is a continuation of Critique I, covering radiographic critique of the spine, bony thorax, cranium and facial bones.

**COURSE NAME:** Health Care and Radiology Administration II  
**COURSE NUMBER:** RADG 42. 461  
**PHASE:** IV  
**CREDIT HOURS:** 1  
**INSTRUCTOR:** TBA (through USF)  
**REQUIRED PREREQS:** RADG 42.460 Health Care and Radiology Administration I

**COURSE DESCRIPTION: \*\*ONLINE\*\***

This course is a continuation of RADG 42.460. This portion will cover topics related to quality care and management issues in radiology and radiation therapy departments. During the course, students will take a closer look at current changes in health care and how they impact decisions regarding future planning and delivery of services. This course is also a Writing Intensive Course (WIC), which means that a significant amount of the learning activities have been designed to give students continued opportunity to further develop writing skills while meeting course objectives

**COURSE NAME:** Quality Management  
**COURSE NUMBER:** RADG 42. 450  
**PHASE:** III  
**CREDIT HOURS:** 2  
**INSTRUCTOR:** Connie Salsbury, MS, RT(R)(CT)  
**PREREQUISITES:** RADG 42.350 Radiologic Physics I, RADG 42.371 Radiographic Imaging, RADG 42.372 Digital Radiography and PACS

**COURSE DESCRIPTION:**

This course covers continuous quality improvement programs and the application of quality management concepts in diagnostic radiology. Covered topics include governmental impact on quality management and the JCAHO 10 Step Program. Also included are quality control and quality assurance for radiographic equipment, ancillary

equipment, fluoroscopic equipment, advanced imaging equipment, and repeat and artifact analysis.

**COURSE NAME:** Radiography Registry Review  
**COURSE NUMBER:** RADG 42.491  
**PHASE:** IV  
**CREDIT HOURS:** 3.0  
**INSTRUCTOR:** Connie Salsbury, MS, RT(R)(CT)  
**PREREQUISITES:** All RADG courses

**COURSE DESCRIPTION:**

This course reviews each of the content areas of the ARRT examination, to prepare the student for certification. It assists the student in organizing review efforts, and emphasizes the synthesis of information from across the curriculum. The course includes developmental testing, simulated registry examinations, review of radiographs and review games. An average 80% score for all simulated registry examinations is a prerequisite to graduation.

**COURSE NAME:** Radiography Clinical Experience V  
**COURSE NUMBER:** RADG 42.409  
**PHASE:** IV  
**CREDIT HOURS:** 4.0  
**INSTRUCTOR:** Stefanie K. Gardner, BS, RT(R)  
**PREREQUISITES:** RADG 42.310 Introduction to Clinical Radiologic Sciences RADG 42.301 Radiography Clinical Orientation, RADG 42.380 Radiographic Procedures I, RADG 42.381 Radiographic Procedures II, RADG 42.305 Radiography Clinical Experience I, RADG 42.307 Radiography Clinical Experience II, RADG 42.407 Radiography Clinical Experience III, RADG 42.408 Radiography Clinical Experience IV

**COURSE DESCRIPTION:**

This course is a continuation of Radiography Clinical Experience IV and provides opportunity for final student learning outcomes assessment. Phase IV clinical requirements include successful completion of final clinical competencies in all major areas of radiography including critical thinking and problem-solving. Successful completion of final competencies is a program graduation requirement. Emphasis in this course is on continued professional development and proficient performance of all radiographic procedures, with opportunity for continued exploration during of the advanced imaging modalities.