RADIOLOGIC TECHNOLOGY

PROGRAM NOTEBOOK

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FULTON-MONTGOMERY COMMUNITY COLLEGE RADIOLOGIC TECHONOLOGY MISSION STATEMENT

The Radiologic Technology Program of the State University of New York at Fulton-Montgomery Community College (SUNY FMCC) dedicates itself to the education of diagnostic radiologic technologists. By providing the highest level of equitable education in a radiology curriculum and partnering with local, diverse, healthcare facilities for clinical experience, the students are assured of a successful career. The radiologic technologist will be committed to their profession by continuing education, by fulfilling the employment needs of our community, and by promoting quality, equitable, care for all patients. This program of study provides the student with the essential qualifications to obtain an Associate of Applied Science (AAS) degree in Radiologic Technology. Graduates will be eligible to take the American Registry of Radiologic Technologists radiography registry examination. Upon successful completion, they can become registered, credentialed radiologic technologists and are eligible to apply for New York State licensure.

Program Goals

1. Develop clinical competency in the performance of basic radiologic procedures

Student Learning Outcomes:

A. Students will apply proper positioning skills for various projections.
B. Students will utilize appropriate collimated field sizes for various projections.
C. Students will demonstrate appropriate Exposure Index awareness by adjusting technical factor selection.

2. Demonstrate problem solving and critical thinking skills

Student Learning Outcomes:

A. Students will be able to modify radiographic procedures to accommodate patient condition.
B. Students will critique images for diagnostic quality.

3. Cultivate and promote good communication skills with patients, staff and others

Student Learning Outcomes:

A. Students will communicate effectively with patients.
B. Students will communicate effectively with other members of the health care team.

4. Graduate students from a learning environment that encourages high ethical standards and professional development

Student Learning Outcomes:

A. Students will demonstrate knowledge of culturally sensitive practices.
B. Students will demonstrate knowledge on best practices and advanced imaging modalities.

NOTE: Radiologic Technology Program courses are based on the American Society of Radiologic Technologist, Radiography Curriculum.

Accreditation

Fulton-Montgomery Community College (FMCC) is accredited by the Middle States Association of Colleges and Schools. All of its programs are registered with the New York State Department of Education and are approved for the training of veterans under various public laws. The College is approved for the holders of New York State scholarships. The College is authorized by the Board of Regents of the University of New York to confer upon its graduates the degree of Associate in Arts, Associate in Science, Associate in Applied Science, or Associate in Occupational Studies. In December 2012, the FMCC Radiologic Technology Program was awarded national accreditation through The Joint Review Committee on Education in Radiologic Technology (JRCERT). The continuing accreditation status of the program was considered at the November 16, 2021 meeting of the Joint Review Committee on Education in Radiologic Technology. The program was evaluated according to the Standards for an Accredited Educational Program in Radiography (2014). The program documents compliance with all relevant Standards; therefore, the JRCERT awards:

ACCREDITATION FOR A PERIOD OF EIGHT YEARS.

The maximum duration that may be awarded by the Joint Review Committee on Education in Radiologic Technology in this category is eight years.

Students and interested persons can access information about FMCC's JRCERT accreditation via the FMCC Radiologic Technology Web page under the "Program Features" section, by visiting the following link: https://fmcc.edu/healthcare/radiologic-technology-aas or by visiting the JRCERT website at https://www.jrcert.org/programs/fulton-montgomery-community-college/

To view the current JRCERT "Standards for an Accredited Educational Program in Radiography" document (effective January 1, 2021), visit the following webpage and select "2021 Radiography Standards."

https://www.jrcert.org/jrcert-standards/

Program Effectiveness Data

JRCERT Standard 6-Objective 6.1 states that the program will:

> Maintain the following program effectiveness data:
>
> - Five-year average credentialing examination pass rate of not less than 75 percent at first attempt within six months of graduation,
> - Five-year average job placement rate of not less than 75 percent within twelve months of graduation,
> - Annual program completion rate

This data is documented on our website at:

https://fmcc.edu/healthcare/radiologic-technology-aas

Program Personnel

JRCERT Standard 3-Objective 3.2 states that the program will:

Assure that all faculty and staff possess the academic and professional qualifications appropriate for their assignments. See the grid below for faculty positions and required qualifications.

Position	Qualifications
Program Director	Holds, at a minimum, a master's degree; For master's degree programs, a doctoral degree is preferred;
	Proficient in curriculum design, evaluation, instruction, program administration, and academic advising;
	Documents three years' clinical experience in the professional discipline;
	Documents two years' experience as an instructor in a JRCERT-accredited program;
	Holds current American Registry of Radiologic Technologists (ARRT) certification and registration, or equivalent[1], in radiography.
Clinical Coordinator	Holds, at a minimum, a bachelor's degree; For master's degree programs, holds, at a minimum, a master's degree;
	Proficient in curriculum development, supervision, instruction, evaluation, and academic advising;
	Documents two years' clinical experience in the professional discipline;
	Documents one year's experience as an instructor in a JRCERT-accredited program;
	Holds current American Registry of Radiologic Technologists (ARRT) certification and registration, or equivalent[1], in radiography.
Full-time Didactic Faculty	Holds, at a minimum, a bachelor's degree;
	Is qualified to teach the subject;
	Proficient in course development, instruction, evaluation, and academic advising;
	Documents two years' clinical experience in the professional discipline;
	Holds current American Registry of Radiologic Technologists (ARRT) certification and registration, or equivalent[1], in radiography.
Adjunct Faculty	Holds academic and/or professional credentials appropriate to the subject content area taught;
	Is knowledgeable of course development, instruction, evaluation, and academic advising.
Clinical Preceptor	Is proficient in supervision, instruction, and evaluation;
	Documents two years' clinical experience in the professional discipline;
	Holds current American Registry of Radiologic Technologists (ARRT) certification and registration, or equivalent[2], in radiography.
Clinical Staff	Holds current American Registry of Radiologic Technologists (ARRT) certification and registration, or equivalent[2], in radiography.

[1] Equivalent: an unrestricted state license for the state in which the program is located.

[2] Equivalent: an unrestricted state license for the state in which the clinical setting is located.

Clinical Preceptor role further defined by FMCC:

Clinical preceptors are either paid clinical adjunct faculty or volunteer clinical staff.

Radiologic Technology Program Description

The Radiologic Technology degree program is designed to meet the educational needs of students who are interested in pursuing a career in radiologic technology. Its mission is to provide quality educational opportunities in the field of radiologic technology. In support of our college's mission, we seek to expand awareness of others, foster civic responsibility, develop an understanding of the sciences, support lifelong learning, and dedicate ourselves to community development and economic growth. This two-year program reflects the values found in our mission and allows us to be responsive to the needs of our community. The program's curriculum will provide our students with the opportunity to complete traditional academic courses in English, Math, the natural sciences, humanities, social sciences, diversity, equity, inclusion, and social justice.

Students will be required to participate in and successfully complete clinical experiences and will be required to travel to various imaging sites for their clinical experience. In addition to the regular fall and spring semester schedule, students are required to enroll in a summer clinical experience.

Course Requirements

Refer to College Catalog – Radiology Curriculum at the link below:
https://fmcc.edu/images/Downloads/2024-2025%20SUNY%20FMCC%20Catalog.pdf

Pre-requisites for admission into the Radiologic Technology Program:

- Proof of graduation from high school or GED.
- Successful completion of high school Biology or college level Biology (SCI 135 Introduction to Biology Molecules/Cells or SCI 136 Essentials of Anatomy & Physiology, or SCI 137 Human Biology or course equivalency). Please note: Anatomy & Physiology and Microbiology will not fulfill this program entrance requirement.
- Successful completion of high school math Course II, Math B or its equivalent (trigonometry/ algebra II), college level math (MAT120 Intermediate Algebra), or course equivalency. Please note: Statistics does not fulfill this program entrance requirement.
- Successful completion of high school chemistry with lab, or college level chemistry (SCI 170 Introduction to Chemistry) or course equivalency. Or successful completion of high school physics with lab or college level physics (SCI 161 Introduction to Physics I) or its equivalent.
- A grade of "B-" (80%) is required for all pre-requisite courses.
- Final decisions as to granting prior FMCC credits, transfer credits, or equivalencies will be made by the Academic Dean in consultation with the Radiology Selection Committee.

Policies-Transfer Credits, and Waivers-

- Documentation must be submitted at least 30 days prior to the start of the semester.

I.**Transfer credits /Prior FMCC credits.**

- **Prior FMCC credits or transfer credits will be granted** for college level General Psychology, Sociology, and English I and II.
- **Prior FMCC credits or transfer credits will be granted** for college level Anatomy/Physiology I & II, if the courses have been earned within seven years and must have earned a **minimal grade of C.**
- Transfer credits are not ordinarily granted for courses in Radiology.
- Transfer credit from a Middle State's approved institution can be granted if the Radiology Selection Committee deems the course content equivalent to its comparable course at FMCC and the student has earned a minimal grade of C.
- FMCC does not accept transfer credit from a non-Middle State's accredited institution. Students may seek a waiver.

II. Waivers

- Students may seek a credit waiver for credits earned from a non-Middle State's accredited institution, if the following criteria are met:
    1. Radiologic Technology Selection Committee deems the course content is equivalent to its comparable course at FMCC and a grade of C or higher has been earned
    2. The Student will earn 50% of the programs requirements in residence.
- If the above conditions are met, a course waiver form should be obtained from Student Advisement. The course waiver form must be processed at the time of enrollment in the first radiology course.
- Waivers must be signed by an advisor, the Program Director of Radiology, the Academic Dean, and the Vice President of the college.
- A radiology course waiver does not grant credit but is accepted as the pre-requisite for the next level radiology course.
- Waivers regarding special circumstances are considered on an individual basis with the approval of the Radiologic Technology Selection Committee.
- A copy of a waiver should be sent to the Admission's Office, Registrar, Business Office, and Academic Dean's office.

Health Forms

Student health records are to be kept up to date, on file and readily accessible. Health records are to be submitted to the **CastleBranch** tracking portal. CastleBranch is the tracking portal that the FMCC Radiologic Technology program uses for students to upload, archive, and maintain their health records and other important program documents. One of these documents is the **FMCC Radiologic Technology Health Form.** Health records must meet the requirements of the State University of New York (SUNY) system and all affiliating clinical agencies. **Students are responsible for updating their health records prior to each semester of clinical practice.** Protocols from affiliating agencies require access to current Health Forms.

Students must sign a permission to release health information that is part of the Student Health Form and keep their health records current, to be allowed to practice clinically. Students must be free of physical limitations or mental impairment as documented by a physician, nurse practitioner, or physician's assistant. Students must have normal sight, hearing (with corrective devices) and speech.

Cardiopulmonary Resuscitation (CPR) Credentials

Only American Heart Association (AHA) CPR will be accepted.

Cardiopulmonary resuscitation (CPR) credentials are to be kept up-to-date and on file as part of the student's health record. The CPR credentialing course must **include adult, child, and infant content.** Students are responsible for maintaining current CPR credentials throughout the program. CPR Certification will be documented on the student's Health Form.

(Refer to Appendices for the FMCC Radiologic Technology Health Form).

Additional Permission to Release Records and Media Consent Form:

- A Permission to Release Information Form (name and Social Security number) will be necessary to complete the State Education Department's Application for Professional Licensure.
- Images of students may be posted to social media and used for marketing purposes, if the student has signed the media consent form.

Additional Required Fees (Fees below are estimated and subject to change each year):

- FMCC will send a certificate of liability insurance to each clinical site.
- Students are required to pay a $150 fee for each clinical experience course (RAD 120,121,122,220,221). Students will receive an itemized bill from the Bursars Office. RAD 122 is a full-time summer semester 7 credit clinical experience; students will receive a tuition bill for this term. Itemized costs can be reviewed at the bursar's office.
- Students are required to purchase uniform items for their clinical experience, details under uniform policy section of this notebook.
- FMCC uses Trajecsys Report System for clinical record keeping. This is a cloud-based application that requires each student to purchase a $150.00 subscription if paid out of pocket and approximately $180.00 if paid through the college Bookstore.
- CastleBranch will cost each student approximately $35.00 as a one-time fee.
- A radiation dosimeter will be issued to each student. If the dosimeter is lost, stolen, or destroyed, the student is responsible for replacement at a fee of $25.00, a freight charge for overnight shipping of $30.00 via My Rad Care Radiation Detection Company Service.

Additional Associated Expenses:

- Students are required to be student members of the American Society of Radiologic Technologists for $35.00 per year. This is equivalent to a textbook cost; we may access the compliance suite materials and the review exams during the program.
- In their last semester in addition to textbook costs, students will write a check or money order for $225.00 to take their ARRT Radiography Registry Exam
- $120.00 to apply for a temporary New York State Department of Health license to practice Radiology
- Approximately $100.00 to sit for a practice registry exam entitled HESI through Elsevier publishing.
- Graduation ceremony apparel is approximately $43.00 for cap, gown, and tassel-($7.00 for tassel).
- $35.00 to join Lambda Nu – National Honor Society for the Radiologic and Imaging Sciences.

Students enrolled in grants may be eligible for reimbursement for the above costs (see Academic Advisor for information on current college affiliated grant opportunities).

Reminders for Student Consideration:

Clinical Orientation

Students are required to attend and/or complete all clinical orientations as scheduled and specific to each clinical site.

Attendance

Attendance at all lab sessions, including clinical affiliate hospitals, and class is required. Any absence may make it difficult to achieve the objectives of the courses and program (see attendance policy).

CLINICAL SETTING OVERVIEW

Transportation to Clinical Sites

Students are required to provide their own transportation to clinical sites.

Clinical education for Radiologic Technology students at Fulton-Montgomery Community College is divided into five significant and required courses.

1. RAD 120 Clinical Experience I (first semester freshman)

2. RAD121 Clinical Experience II (second semester freshman)

3. RAD 122 Clinical Experience III (summer session freshman)

4. RAD 220 Clinical Experience IV (first semester senior)

5. RAD 221 Clinical Experience V (second semester senior)

References for Radiologic Technology Curriculum: (current editions)

Rollins, Long & Curtis. Merrill's Atlas of Radiographic Positions and Radiologic Procedures, Elsevier.

Lampignano & Kendrick. Textbook of Radiographic Positioning and Related Anatomy, Elsevier.

Carlton, Adler, & Balac. Principles of Radiographic Imaging; An Art and Science, Delmar Cengage Learning.

Ehrlich & Coakes. Patient Care in Radiography, Elsevier.

Sherer, Visconti, Ritenour, and Haynes. Radiation Protection in Medical Radiography, Elsevier.

Radiography Curriculum, The American Society of Radiologic Technologists, 2022.

Resources:

Textbooks are available in the Evans library on reserve. There is a program library of assorted textbooks in the Radiologic Technology lab (Room C-005).

Clinical Experience Settings:

* Bassett Healthcare Mary Imogene Bassett Hospital which includes in house clinic

* Cobleskill Regional Hospital; Cobleskill

* Ellis Hospital; Schenectady, Medical Center of Clifton Park, Ellis Medicine Primary and Urgent Care at Mohawk Harbor

* Nathan Littauer Hospital; Gloversville

* St. Mary's Hospital; Amsterdam, Rao Outpatient Pavilion

* Saratoga Hospital; Saratoga Springs, and Wilton Medical Arts; Wilton

* Malta Med Emergent Care-Health Care Partners; Malta

* St. Peter's Hospital; Albany

* Albany Medical Center Hospital; Albany

* Columbia Memorial Health; Hudson

* Glens Falls Hospital; Glens Falls

* Mohawk Valley Orthopedics; Amsterdam

* New York Oncology Hematology (Radiation Therapy); Amsterdam – Observation Only.

Process for Radiologic Technology Student Clinical Site Placement

In general, but subject to change with notice based on workload and student retention:
Freshmen students are assigned to a clinical site at random for RAD 120, RAD 121, and remain at this site for summer RAD 122. During these experiences freshmen students will also rotate through a Pediatric rotation at Albany Medical Center.

Senior students are assigned to a different clinical site from their freshman site. This site is selected by the Program Director and Clinical Coordinator. The faculty evaluate the student's clinical grades, daily log sheets, and clinical experience; then choose a senior site to best provide a new variety of experiences such as (operating room exams, etc.) Senior students will rotate through specialty rotations and the advanced imaging modalities including a Mohawk Valley Orthopedics rotation.

At the discretion of the Program Director and the Clinical Coordinator, students may be moved to a different clinical site than their original designated clinical site assignment.

Clinical Site Phone Numbers and Addresses – Rotations as Assigned

Main Rotation St. Mary's Healthcare, Amsterdam Radiology Phone #: (518) 841-7201 Dept. Fax #: (518) 841-7130 Address: 427 Guy Park Avenue, Amsterdam, NY 12010	**Main Rotation** Ellis Primary and Urgent Care at Mohawk Harbor *Ellis Medicine* Radiology Phone #: (518) 881-4704 Dept. Fax #: (518) 881-4719 Address: 200 Harborside Dr, Schenectady, NY 12305
Main Rotation St. Mary's Healthcare Rao Outpatient Pavilion (OPP) Radiology Phone #: (518) 841-3578 Dept. Fax #: (518) 841-3750 Address: 4950 State Hwy 30, Amsterdam, NY 12010	**Main Rotation** Bassett Medical Center *Bassett Healthcare Network* *Cooperstown Main Hospital* Radiology Phone #: (607) 547-3602 Main Hospital Fax #: (607) 547-5602 Clinic Radiology Phone #: (607) 547-6830 Clinic Fax #: (607) 547-6827 Address: 1 Atwell Road, Cooperstown, NY 13326-1394
Main Rotation Nathan Littauer Hospital Radiology Phone #: (518) 773-5522 Dept. Fax #: (518) 773-5632 Address: 99 East State Street, Gloversville, NY 12078	**Main Rotation** Cobleskill Regional Hospital *Bassett Healthcare Network* Radiology Phone #: (518) 254-3350 Dept. Fax #: (518) 254-3360 Address: 178 Grandview Drive, Cobleskill, NY 12043
Main Rotation Saratoga Hospital *Saratoga Care* Radiology Phone #: (518) 583-8763 Dept. Fax #: (518) 583-5939 Address: 211 Church Street, Saratoga Springs, NY 12866	**Main Rotation** Little Falls Hospital *Bassett Healthcare Network* Radiology Phone #: (315) 823-5258 Dept. Fax #: (315) 823-5319 Address: 140 Burwell Street, Little Falls, NY 13365
Main Rotation Wilton Medical Arts *Saratoga Care* Radiology Phone #: (518) 580-2255 Dept. Fax #: (518) 580-2257 Address: 3040 Route 50, Saratoga Springs, NY 12866	**Main Rotation** Albany Medical Center Hospital Pediatric Radiology Phone #: (518) 262-3949 Emergency Room X-Ray Phone #: (518) 262-3442 Fax #: (518) 262-8313 Address: 43 New Scotland Avenue, Albany, NY 12208-3478
Main Rotation Health Care Partners – Malta Med Emergent Care *Saratoga Care* Radiology Phone #: (518) 886-5445 Dept. Fax #: (518) 899-1627 Address: 6 Medical Park Drive, Malta, NY 12020	**Main Rotation** St. Peter's Hospital *St. Peter's Health Partners* Radiology Phone #: (518) 525-1863 Dept. Fax #: (518) 525-1791 Address: 315 S. Manning Blvd., Albany, NY 12208
Main Rotation Ellis Hospital *Ellis Medicine* Radiology Phone #: (518) 243-4491 Dept. Fax #: (518) 243-4310 Address: 1101 Nott Street, Schenectady NY, 12308	**Main Rotation** Columbia Memorial Health Radiology Phone #: (518) 828-8508 Dept. Fax #: (518) 828-8191 Address: 71 Prospect Ave, Hudson, NY 12534
Main Rotation Medical Center of Clifton Park *Ellis Medicine* Radiology Phone #: (518) 579-2700 * x2 Dept. Fax #: (518) 579-2715 RSO: Hassan Abbas Address: 103 Sitterly Road, Clifton Park, NY 12065	**Main Rotation** Glens Falls Hospital Radiology Phone #: (518) 926-3714 Dept. Fax #: (518) 926-3775 Address: 100 Park Street, Glens Falls, NY 12801

Specialty Rotation – Orthopedics & MRI Mohawk Valley Orthopedics, P.C. & Mohawk Valley MRI Mohawk Valley Medical Arts Building Radiology Phone #: (518) 842-2663 Fax #: (518) 842-4861 MRI suite: x 247 Address: 5010 State Highway 30, Amsterdam, NY 12010	**Specialty Rotation- Observation Only** New York Oncology Hematology, P.C. Phone #: (518) 843-0020 Fax #: (518) 843-9114 Address: 1700 Riverfront Center, Amsterdam, NY 12010

Grading/Evaluation Clinical

Clinical experience is graded **Satisfactory or Unsatisfactory based on the progressive grading policy. (See Policy # 3 – clinical grades).**

If upon evaluation of overall clinical performance, it is deemed that a student is functioning unsatisfactorily in the application of radiology procedures, patient care, or professional behavior; the student will receive a grade of Unsatisfactory. See clinical course grade evaluation worksheet for details.

An Unsatisfactory clinical grade will mean dismissal from the program.

All assigned clinical forms and work must be completed on time to complete the course requirements and receive a passing grade. **There are no optional assignments! If students do not complete assignments in a timely fashion, either a failing grade or incompletion will be submitted for official grading periods.**

A student who is expelled from the clinical site for any reason regarding policy violation, student misconduct, safety hazard, unprofessionalism, or ARRT ethical misconduct may be dismissed from the program.

Examples of Clinical Evaluations:

Clinical Snapshot Evaluations

Clinical performance will be evaluated by the clinical faculty or licensed radiographer. Evaluations are used at the end of an assigned rotation to ascertain the student's level of performance. It represents skills that are satisfactory, consistent in student performance, progressing or developing skills, and unsatisfactory performance. It is the student's responsibility to facilitate timely submission of biweekly snapshot evaluations. Students will be given a schedule for due dates which is accessible on the student Trajecsys home screen.

Clinical Competencies

Clinical competency is achieved through the student observing, assisting, and performing their skills prior to competency testing. The students must pass a series of, at least ***three***, performed (proficiency) evaluations prior to competency testing. Students may take as many proficiency evaluations as they feel necessary before taking their competency test; a minimum of 3 proficiencies is required. Clinical faculty or clinical staff radiographers with over a year of experience, may evaluate competency testing. New graduates may evaluate competency testing after ***6 months*** of clinical training only if they are the sole technologist present at the time of a competency exam being completed by a student. **All competencies listed on the Master Checklist with a grade of 85 or better, must be successfully completed in RAD 221.** If the student has not successfully completed all the required competencies and clinical requirements, a grade of "I" or "U" will be recorded on the transcript at the discretion of the faculty.

Students receiving an 'I' or "U" as a clinical grade will not graduate from the program in May. The student may be offered a remediation program for clinical competency at the discretion of the program director. Students participating in final clinical remediation must successfully complete all required competencies/clinical requirements for a change of grade to an 'S' for RAD 221 to be submitted. Failure on a competency evaluation will require the student to complete the Failed Competency Remediation process which involves beginning the proficiency evaluation cycle again with faculty supervision (See appendices for Failed Competency Remediation process).

Critical Thinking Competency

Students are required to complete a critical thinking competency at the midterm and at the end of each semester (waived for RAD 120 midterm grade, and RAD 221 final grade). This is included as part of the final clinical grade.

Assessment of Professional Growth

Each assigned faculty shall evaluate the student progress at mid-term and at the end of the semester (waived for RAD 120 midterm grade).

Final Competency (Exit-Day)

This is a program requirement completed at the end of RAD 221. The final competency can only be scheduled when all Mandatory and Elective competencies required by the ARRT are completed. This competency will determine if the student is qualified to sit for the boards. The students must pass this competency test before they can schedule their ARRT Radiography examination date.

Clinical Experience Forms

Upon entry into the program students will receive a competency checklist, and various other mandatory forms. Other software scheduling tools may be used for clinical scheduling and assignments. Sign-Up Genius - https://www.signupgenius.com/ is a web link tool that will be used for students to schedule their Lab Finals for RAD 110 and RAD 111.

Clinical snapshot evaluations, competency evaluations, critical thinking competency evaluations, and assessment of professional growth evaluations can be found in the appendices section of this program notebook.

Trajecsys and Textbooks

Trajecsys is a cloud based paperless clinical record keeping system. Students are required to purchase a subscription to Trajecsys for the entire time they are in the program. Without an active subsrciption students will not be able to participate in their clinical courses, meaning dismissal from the program.

Textbooks: *Students are required to purchase all required books for the program*. Many of these books will be used as a professional reference during their career.

Trajecsys Reporting System (TRS)

Students are required to utilize the Trajecsys Reporting System. Students will be required to pay the full registration fee prior to starting Clinical Rotation (date specified by Clinical Coordinator).

The fee includes system access for the length of the professional program.
Throughout the clinical requirements of this handbook, specific mention of the Trajecsys Reporting System can be found here:

https://www.trajecsys.com/

Students will utilize this system to:

- Access the system daily for clinical announcements/updates, clinical documents, etc.
- Clock In/Out from clinical.
- File Time Exceptions when required.
- Enter Daily Log Sheets of all work/exams done in the clinical setting.
- Access clinical paperwork through the Documents tab.
- Submit competency attempts and view completed competency evaluations
- Access the Reports tab to view feedback from evaluators.

Using Trajecsys

All users must first register in the system by selecting the "Registration" link and completing the required information. Once this has been entered, the Clinical Coordinator will add each Registrant to the system. Following this step, complete access will be granted to the student. Orientation for this system will be completed prior to attending clinical during the first semester. Students have 30 days to complete payment following registration; if payment is not completed, access to the system will be denied. Access denial for non-payment does not excuse students from completing clinical requirements and professional responsibility deductions for failure to meet a clinical deadline will apply. Students will not be able to attend clinical without Trajecsys being paid for.

Unacceptable practice acts will be filed if the student does not adhere to timely submission of clinical paperwork requirements.

Circumstances related to entering false data will be considered falsification of records, resulting in disciplinary action, including possible dismissal from the professional program.

Clinical Faculty and Staff

A licensed Radiologic Technologist with, at least, two years of experience (if applicable) may be designated by FMCC as adjunct clinical faculty and put in the role of Clinical Preceptor. The Clinical Preceptor shall meet the job description put forth to them by FMCC and provide each assigned student with clinical education. Clinical Instructors are volunteer positions within the clinical site to attend to day to day needs of Radiologic Technology students. Clinical staff are the technologists at each site that provide appropriate levels of supervision for each student over radiographic exams being performed.

Attendance/Tardiness Lectures

Lecture attendance is expected. Regular attendance and participation are essential for the learning process. Exams cover lecture material and specific assignments; therefore, absences will negatively affect your grades. Specific didactic attendance policies will be detailed in course syllabi.

If a student is tardy for the beginning of class, the student may be asked to wait until a scheduled break to enter the classroom.

Grading/Evaluation

All didactic and clinical evaluation systems shall be consistent with the goals of the Radiology Program. Exams incorporate lecture material and additional content as specified by the instructor.

Procedures Lab

Anatomical phantoms, only, will be used in the Lab setting. The radiology procedure labs will be held at the on-campus radiology lab. The radiology room contains an energized x-ray tube, table, control panel, upright Bucky unit, Digital DR detector and monitor, mobile radiographic units including portable and C-Arm units, and radiographic accessories. Lab practice is essential to meet clinical experience expertise and will aid in the passing of mandatory clinical competencies. Dosimeters must be always worn when using the lab. All laboratory sessions are mandatory for each student.

Grievances/Complaints (See Policy # 23, 24, 25 regarding Harassment, Sexual Harassment and Discrimination) Please also refer to the Fulton-Montgomery Community College student handbook The Source which is available for viewing here: https://fmcc.edu/images/pages/student-experience/The%20Source%20-%20Student%20Handbook.pdf

FMCC Radiologic Technology Affiliations

LICENSURE

NYS DEPARTMENT OF HEALTH BUREAU OF ENVIRONMENTAL RADIATION PROTECION: NYS DOH/BERP Radiologic Technology, In the medical arts, ionizing radiation is used for diagnostic or therapeutic purposes and must be applied by a professional practitioner working within the scope of his/her State Education Department license or by a radiologic technologist working under the supervision of a professional practitioner. Radiologic technologists must be licensed by and registered with the New York State Department of Health's Bureau of Environmental Radiation Protection. We license Radiologic Technologists in Radiography, Therapy and Nuclear Medicine. Radiologic technologists with proper training can apply for certification to inject contrast media. Part 16, part 89, and article 35 pertain to the practice of Radiologic Technology including the education of diagnostic radiographers. FMCC Radiologic Technology laboratory equipment possesses current registration with NYS. FMCC Radiologic Technology program follows the criteria put forth in the above regulations as prescribed by NYS. Graduates from the program with intention of practicing in NYS will apply for a license through the NYS/ DOH/ BERP.

ACCREDITATION

JRCERT: The Joint Review Committee on Education in Radiologic Technology (JRCERT) is the only agency recognized by the United States Department of Education (USDE) and the Council for Higher Education Accreditation (CHEA), for the accreditation of traditional and distance delivery educational programs in radiography, radiation therapy, magnetic resonance, and medical dosimetry. The JRCERT awards programs accreditation after determination of substantial compliance with their standards. Communities of interest including students can access information regarding the JRCERT by visiting their website at: www.jrcert.org

FMCC Radiologic Technology is currently accredited by the JRCERT through 2028.

CERTIFICATION AND REGISTRATION, EXAMINATION

ARRT: The American Registry of Radiologic Technologists (ARRT) is the world's largest credentialing organization that seeks to ensure high quality patient care in medical imaging, interventional procedures, and radiation therapy. We certify and register technologists through administration of education, ethics and examination requirements. Students successfully completing the program and graduation requirements will apply to the ARRT for the Radiography Registry Exam.

PROFESSIONAL SOCIETY

ASRT: The mission of the American Society of Radiologic Technologists (ASRT) is to advance and elevate the medical imaging and radiation therapy profession and to enhance the quality and safety of patient care. The American Society of Radiologic Technologists is the premier professional association for the medical imaging and radiation therapy community through education, advocacy, research and innovation. FMCC Radiologic Technology utilizes the curriculum put forth by the ASRT.

ASRT Curriculum Recommended Graduate Outcomes:

Professional Characteristics:
This curriculum is designed to ensure that entry-level radiographers possess the technical skills outlined in the ASRT Radiography Practice Standards. In addition, the graduate should exhibit the following professional characteristics:

- Prudent judgment in administering ionizing radiation to produce diagnostic images.
- A focus on providing optimal patient care in an evolving and diverse society.
- An understanding of the challenges associated with providing direct patient care in today's healthcare setting.
- The ability to work collaboratively in a dynamic healthcare environment.
- The skills to research and evaluate sources of information to be utilized in evidence-based practice.
- Stewardship over the security and confidentiality of patient medical information.
- Skills that promote lifelong learning.
- A willingness to collaborate with others in the community to promote standards of excellence in the medical imaging sciences.
- A willingness to contribute to the education and clinical skill development of radiologic science students.

Radiographer Technical Standards

The following are performance standards to meet the learning objectives and practice standards for patient care in Radiography.

Radiography is an allied health profession requiring cognitive, psychomotor, sensory, and affective performance requirements to practice safely. All students are required to meet and maintain these standards. Students must demonstrate the ability to provide consistently safe and effective delivery of Radiologic Technology services in conjunction with industry, program, and clinical site standards. All students must meet the technical standards with or without reasonable accommodations to be admitted into the program and for successful completion of the program.

Language Arts/Communication

Verbal – The student should be able to:
Speak clearly, concisely and employ correct vocabulary and grammar for communication.
Have the ability to give verbal explanation and instruction to patients.

Written – Have the ability to write on patients' charts (where applicable) and requisitions, describe incidents that occur, and record medical information.

Sensory Characteristics

Visual – The student should be able to:
Confirm the patient's identity, read physician's orders, read gauges and panels.
Observe the patient's physical conditions.

Auditory – The student should be able to:
Respond to verbal information from the patient, physician, and staff. Take blood pressure readings.
Respond to auditory radiation protection indicators.

Touch – The student should be able to:
Locate anatomical landmarks on the patient by touch.

Body Mechanics
Heavy lifting is required, more than 50 lbs.

The student should be able to:

- Move and support patients by lifting and sliding.
- Push/pull radiographic equipment, wheelchairs and stretchers.

Intellectual and Mental/Emotional
The student should be able to:

- Use algebra in solving technical equations, graphs, curves and numerical tables. think critically and assess a situation.
- Have emotional strength in dealing with trauma situations and patients with chronic, acute and terminal conditions.
- Have willingness to provide services to all patients, regardless of age, sex race, national origin, religion, social status, sexual orientation, physical conditions, or disease processes.

The student's success in Radiologic Technology is dependent on:

- Emotional maturity, academic ability, motivation, self-discipline, and the willingness to devote a considerable amount of time to academic study.
- Patience and enjoyment of working with and serving others.
- Ability to follow orders yet think critically and assess situation quickly and accurately.
- Physical ability to perform the duties of the job.

ASRT General Education:

General education is an integral part of the development of a radiographer. This content is designed to assist in developing skills in communication, human diversity, scientific inquiry, critical thinking and judgment. All these skills are required to perform the responsibilities of an entry-level radiographer. Knowledge gained from general education serves to enhance the content and application of the radiography curriculum.

The ARRT® requires an associate degree (or higher) to apply for the certification exam for radiography. Specific general education requirements have been eliminated from the radiography curriculum. The content listed below is designed only to serve as guidance for program development. Individual states, accreditation agencies, and educational systems have unique general education requirements.

Postsecondary general education should be gained through courses that provide college credit and meet the general content objectives listed below:

Mathematics and Reasoning
• Demonstrate skills in analysis, quantification, and synthesis.
• Apply problem-solving or modeling strategies.

Communication
• Write and read critically.
• Speak and listen critically.
• Gather, organize, and present information.
• Locate, evaluate, and synthesize material from diverse sources and points of view.

Humanities
• Demonstrate respect for diverse populations.
• Define ethics and its role in personal and professional interactions.
• Critically examine personal attitudes and values.

Information Systems
• Use computerized systems to acquire, transfer, and store digital information.
• Use technology to retrieve, evaluate, apply, and disseminate information.

Social Sciences
• Adapt interactions to meet the cultural and psychological needs of individuals.
• Describe individual and collective behavior.
• Exhibit and develop leadership skills.
• Exercise responsible and productive citizenship.
• Function as a public-minded individual.

Natural Sciences
• Arrive at conclusions using the scientific method.
• Make informed judgments about science-related topics.
• Develop a scientific vocabulary.

Accommodations
Persons with disabilities are eligible for admission if they can carry out classroom, laboratory and clinical assignments, patient/client intake, assessment and techniques, or the equivalent; pass written, oral, and practical examinations and meet all requirements of the school.

It is the student's responsibility to disclose any limitations that might interfere with the student meeting these standards.

The FMCC Radiologic Technology Program will make reasonable accommodations for disabilities. Applicants and students are welcome to discuss any disabilities that they believe will hinder their completion of the curriculum.

To access disability services or accommodations including testing accommodations, students must initiate a request for service and complete the eligibility determination process. The first step in this process is to contact Kathy Norman, Coordinator of Accessibility Counseling & Alternative Testing Services at 518-736-3622 extension 8145 or knorman@fmcc.edu

Information about ARRT Radiography Registry Testing Accommodations can be found here: https://state.arrt.org/pages/exam-security-and-accommodations/examination-security-and-testing-accommodations#:~:text=ABOUT%20ARRT'S%20TESTING%20ACCOMMODATIONS&text=We'll%20provide%20appropriate%20testing,as%20compared%20to%20most%20people.

FMCC Radiologic Technology Program Curriculum:

Program Information

The Radiologic Technology program at FM is a JRCERT (*Joint Review Committee on Education in Radiologic Technology)* accredited program. Our most recent accreditation report reflects a 95% or more pass rate for FM students that take the American Registry of Radiologic Technologists (ARRT) Radiography Boards examination after graduation. Students attend internships called clinical site rotations with local hospitals for hands-on learning.

Career Information

Radiologic Technology is a great foundation for students who desire to seek further education in related health care fields. FM graduates have pursued degrees in related fields including; Sonography, Radiation Therapy, Physician Assistant, and other imaging modalities.

PROGRAM LEARNING OUTCOMES

Students will be able to:

1) Develop clinical competency in the performance of basic radiologic procedures.
2) Demonstrate problem solving and critical thinking skills.
3) Cultivate and promote good communication skills, with patients, staff and others.
4) Graduate students from a learning environment that encourages high ethical standards and professional development.

FIRST YEAR

RAD 101 Introduction to Radiologic Technology	2	RAD 102 Patient Care	2
RAD 110 Radiographic Procedures I	3	RAD 111 Radiographic Procedures II	3
RAD 120 Clinical Experience I	4	RAD 121 Clinical Experience II	4
RAD 130 Radiographic Physics I	3	RAD 131 Radiographic Physics II	3
BIO 181 Anatomy and Physiology I	4	BIO 182 Anatomy & Physiology II	4
	16		16

SUMMER

RAD 122 Clinical Experience III	7

SECOND YEAR

RAD 202 Radiographic Image Analysis	2	RAD 211 Advanced Radiographic Procedures II	2
RAD 210 Advanced Radiographic Procedures I	2	RAD 212 Computed Tomography	1
RAD 220 Clinical Experience IV	6	RAD 221 Clinical Experience V	6
RAD 231 Radiographic Image Quality	2	RAD 230 Radiologic Health	3
ENG 103 English I	3	MAT 125 Introduction to Statistics	3
DEISJ Elective[6]	3	ENG 104 English II **or**	
		ENG 127 Technical/Professional Writing	3
	18		18

1. Prerequisites: High School Algebra, High School Biology and either High School Chemistry or High School Physics with Lab. A grade of "B-" required for all prerequisite courses.
2. A medical examination is required annually. All students must meet the physical and emotional requirements as stated on the health form. All students must be certified in American Heart Association adult and pediatric cardiopulmonary resuscitation (CPR) prior to admission to the program.
3. To qualify for the next sequential radiology course, the student must earn a grade of "C" or higher in radiology courses, pass the clinical portion, and earn a grade of "C" or higher in BIO 181 and BIO 182.
4. **Upon admission or readmission to the Radiologic Technology program, prior FM credit or transfer credit will not be granted for college level Anatomy and Physiology I and II if the courses were taken more than seven years ago.**
5. Some courses meet at clinical hospital sites.
6. DEISJ Elective must be selected from the approved SUNY General Education DEISJ category.

A minimum of 75 credits are required to complete this program, which must include 20 credits of General Education Liberal Arts and Sciences.

Radiologic Technology program course descriptions are available on the 2024-2025 SUNY FMCC Catalog here:

https://fmcc.edu/images/Downloads/2024-2025%20SUNY%20FMCC%20Catalog.pdf