RADIOGRAPHY, ASSOCIATE IN APPLIED SCIENCE

College(s): MX

Program Code: 0246

The AAS in Radiography is the study of the theory, technical skills, patient care, and techniques necessary to use radiation in the diagnosis of disease. Completion of the program can lead to employment as an x-ray technologist or radiographer in private and public hospitals, clinics, and laboratories. The AAS degree in Radiography provides the necessary professional skills, progressive maturity, and the intellectual, social, and emotional values necessary for a graduate to be a trustworthy member of the healthcare team.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more information on the Radiography program at Malcolm X College, visit the program webpage (http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Radiography.aspx).

Program Requirements

Code	Title	Hours
Program Prerequisites		
MATH 118	General Education Math (or higher Mathematics course)	
BIOLOGY 116	Introduction to Anatomy And Physiology [1]	
HEAPRO 102	Health Career Studies [2]	
General Education Coursework		
ENGLISH 101	Composition	3
PHYSICS 131	Mechanics And Power (or higher)	3
PSYCH 201	General Psychology	3
SPANISH 193	Spanish for Radiography [3]	3
Required Program Core		
RADIOGR 101	Intro To Radiation Sciences	2
RADIOGR 102	Attitudes In Patient Care	2
RADIOGR 105	Imaging Physics	4
RADIOGR 115	Basic Prins Of Image Produc	3
RADIOGR 124	Intro To Patient Care	2
RADIOGR 128	Image Evaluation	1
RADIOGR 131	Radiographic Procedures I	2
RADIOGR 140	Intro To Clinical Education	3
RADIOGR 141	Radiography Clinical Education I	3
RADIOGR 200	Pathology	4
RADIOGR 202	Radiology Management	1
RADIOGR 205	Applied Radiographic Techniques	3
RADIOGR 206	Imaging	2
RADIOGR 208	Radiobiology	3
RADIOGR 232	Radiographic Procedures II	4
RADIOGR 233	Radiographic Procedures III	4
RADIOGR 234	Special Radiographic Procedure	2
RADIOGR 242	Radiography Clinical Ed II	4
RADIOGR 243	Radiography Clinical Education III	4
RADIOGR 244	Radiography Clinical Education IV	4
Total Hours		**69**

1 BIOLOGY 226 Human Structure and Function I *and* BIOLOGY 227 Human Structure and Function II may substitute
2 BIOLOGY 120 Terminology For Medical Careers may substitute
3 Or other HD general education course (https://catalog.ccc.edu/hd/)

At least one course must meet the Human Diversity (HD) requirement

Pathway

This is an **example course sequence** for students interested in earning a degree in Radiography. It does not represent a contract, nor does it

guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Applied Science (AAS) Degree in Radiography.

Upon completion of the program of study, graduates become eligible to take the national certification exam offered by the American Registry of Radiologic Technologists (ARRT). In addition, graduates may apply for a license from the Illinois Emergency Management Agency/Division of Nuclear Safety.

Prospective students must apply for admission into the Radiography program.

FALL COHORT - Semester-by-Semester Program Plan for Full-Time Students

Semester 1		Hours
Fall		
RADIOGR 101	Intro To Radiation Sciences	2
RADIOGR 102	Attitudes In Patient Care	2
RADIOGR 115	Basic Prins Of Image Produc	3
RADIOGR 124	Intro To Patient Care	2
ENGLISH 101	Composition [1]	3
	Hours	**12**
Semester 2		
Spring		
RADIOGR 105	Imaging Physics	4
RADIOGR 128	Image Evaluation	1
RADIOGR 131	Radiographic Procedures I	2
RADIOGR 140	Intro To Clinical Education	3
PHYSICS 131	Mechanics And Power [1]	3
	Hours	**13**
Semester 3		
Summer		
RADIOGR 141	Radiography Clinical Education I	3
RADIOGR 232	Radiographic Procedures II	4
	Hours	**7**
Semester 4		
Fall		
RADIOGR 205	Applied Radiographic Techniques	3
RADIOGR 208	Radiobiology	3
RADIOGR 233	Radiographic Procedures III	4
RADIOGR 242	Radiography Clinical Ed II	4
PSYCH 201	General Psychology [1]	3
	Hours	**17**
Semester 5		
Spring		
RADIOGR 200	Pathology	4
RADIOGR 206	Imaging	2
RADIOGR 234	Special Radiographic Procedure	2
RADIOGR 243	Radiography Clinical Education III	4
SPANISH 193	Spanish for Radiography (HD)	3
	Hours	**15**
Semester 6		
Summer		
RADIOGR 202	Radiology Management	1
RADIOGR 244	Radiography Clinical Education IV	4
	Hours	**5**
	Total Hours	**69**

[1] General Education Requirement

SPRING COHORT - Semester-by-Semester Program Plan for Full-Time Students

Semester 1		Hours
Spring		
RADIOGR 101	Intro To Radiation Sciences	2
RADIOGR 102	Attitudes In Patient Care	2
RADIOGR 115	Basic Prins Of Image Produc	3
RADIOGR 124	Intro To Patient Care	2
ENGLISH 101	Composition [1]	3
	Hours	**12**
Semester 2		
Summer		
RADIOGR 131	Radiographic Procedures I	2
RADIOGR 140	Intro To Clinical Education	3
	Hours	**5**
Semester 3		
Fall		
RADIOGR 105	Imaging Physics	4
RADIOGR 128	Image Evaluation	1
RADIOGR 141	Radiography Clinical Education I	3
RADIOGR 232	Radiographic Procedures II	4
PHYSICS 131	Mechanics And Power (or higher) [1]	3
	Hours	**15**
Semester 4		
Spring		
RADIOGR 205	Applied Radiographic Techniques	3
RADIOGR 208	Radiobiology	3
RADIOGR 233	Radiographic Procedures III	4
RADIOGR 242	Radiography Clinical Ed II	4
PSYCH 201	General Psychology [1]	3
	Hours	**17**
Semester 5		
Summer		
RADIOGR 200	Pathology	4
RADIOGR 243	Radiography Clinical Education III	4
	Hours	**8**
Semester 6		
Fall		
RADIOGR 202	Radiology Management	1
RADIOGR 206	Imaging	2
RADIOGR 234	Special Radiographic Procedure	2
RADIOGR 244	Radiography Clinical Education IV	4
SPANISH 193	Spanish for Radiography (HD)	3
	Hours	**12**
	Total Hours	**69**

[1] General Education Requirement

Choose your courses with your College Advisor.

Program Admission Requirements

The program is very competitive, and having the minimum requirements does not indicate that you will be accepted into the program. Students having less than minimum requirements will not be considered. In order to enter the program students must:

- 18 years of age or older
- Grade of “C” or better in:

Code	Title	Hours
MATH 118	General Education Math (or higher Mathematics course)	4
BIOLOGY 116	Introduction to Anatomy And Physiology [1]	4
HEAPRO 102	Health Career Studies [2]	3

[1] BIOLOGY 226 Human Structure and Function I *and* BIOLOGY 227 Human Structure and Function II may substitute
[2] BIOLOGY 120 Terminology For Medical Careers may substitute

- Official college transcripts
- 2.7 College GPA
- Complete the application packet
- For application details, please visit the Radiography page on www.ccc.edu (https://www.ccc.edu/colleges/malcolm-x/departments/Pages/Radiography.aspx)

Students that meet all of the minimum admission requirements listed above will be scheduled for an interview with the program director. Students that complete this interview will be considered for admission to the program. Please note that admission is highly competitive and that not all students who are interviewed will be admitted. Students are advised to prepare for the interview, to arrive early, and to dress appropriately for a professional interview. Students are also advised to carefully prepare their application, giving special attention to content and format.

Background Check

Students entering most healthcare professions programs will be required to present documentation of health history and vaccination status, to undergo annual tuberculosis screening, to submit to a background check, to submit to initial and random drug screening, and to undergo fingerprinting prior to licensing with the state of Illinois. Students should consult with an advisor if any of these requirements are a concern.

Physical Requirements Needed for Successful Performance in the Clinical Area

A person working in the field as a radiographer may be required to perform many extraneous and laborious tasks. Patient care in the clinical area requires excellent communication and language skills.

Therefore all students must be able to:

- Stand on their feet for approximately 8 hours.
- Push and/or pull patients with weights that may exceed 200 lbs.
- Communicate in English well enough so that you can be understood by others, and others can understand you.
- Execute both hand and pedal dexterity.
- Give directions and respond to patient requests.
- Operate portable equipment.
- Visually critique a film.
- Exhibit good hearing ability and is able to exercise good body mechanics.
- Lift and carry various accessory equipment.

For more information on admissions and the application process, visit the Radiography program webpage (http://www.ccc.edu/colleges/malcolm-x/departments/Pages/Radiography.aspx).

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

Radiologic Technologists and Technicians

Job Description

Take x-rays and CAT scans or administer nonradioactive materials into patient's bloodstream for diagnostic or research purposes. Includes radiologic technologists and technicians who specialize in other scanning modalities.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10th Percentile	$54,135
Median 50th Percentile	$75,623
Senior-Level 90th Percentile	$102,708

Hourly Wages

Entry-Level 10th Percentile	$26
Median 50th Percentile	$36
Senior-Level 90th Percentile	$49

Annual Job Openings

230 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	0.00%
A certificate	16.52%
Some college	0.00%
An Associate degree	72.85%
A Bachelor's degree	10.63%

A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

10.63% continue their education beyond an associate degree