

## East Central College

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Union, Missouri 63084  
636-584-6500  
www.eastcentral.edu

### Admissions Office

ECC Campus  
636-584-6588  
admissions@eastcentral.edu

### Program Location

ECC Rolla Main  
500 Forum Drive  
Rolla, MO 65401  
573-466-4100

### Program Director

Maggie Ogden  
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### Division

Nursing and Allied Health  
636-584-6616

### Nancy Mitchell, MSN, RN

Dean of Health Science  
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East Central College is accredited by the Higher Learning Commission and a participant in the Academic Quality Improvement Program (AQIP)  
30 N. LaSalle St., Suite 2400  
Chicago, Illinois 60602-2504  
1 (800) 621-7440

## THE CAREER

Radiologic technologists take X-rays and administer non-radioactive materials into patients' bloodstreams for diagnostic purposes. Radiologic technologists produce x-ray films (radiographs) of parts of the human body for use in diagnosing medical problems. They prepare patients for radiologic examinations by explaining the procedure, removing articles through which x-rays cannot pass, and positioning patients so that the parts of the body can be appropriately radiographed.

## PROFESSIONAL TRAITS

- Sensitive to patients' physical and psychological needs
- Attention to detail
- Follow instructions and work as part of a team
- Mechanical ability and manual dexterity

## EMPLOYMENT AND SALARY INFORMATION

Median annual earnings of radiologic technologists were \$59,520 in 2018. The middle to percent earned between \$42,710 and \$63,010. The lowest 10 percent earned less than \$40,630, and the highest 10 percent earned more than \$86,350. The job outlook growth is 13%.

Median annual earnings in the industries employing the largest numbers of radiologic technologists in 2018 were:

✓ General Medical and Surgical Hospitals	\$60,700
✓ Offices of Physicians	\$53,990
✓ Outpatient Care Centers	\$61,480
✓ Medical and Diagnostic Laboratories	\$60,200
✓ Federal Executive Branch (OES Designation)	\$65,230

\* Data provided by the U.S. Bureau of Labor Statistics



JOINT REVIEW COMMITTEE  
ON EDUCATION IN  
RADIOLOGIC TECHNOLOGY

The 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 PROGRAM

ECC, in partnership with the Rolla Technical Institute/Center, offers a program of study leading to an AAS degree in radiologic technology. Students learn to use computed radiography & digital radiography equipment designed to record images, which aid radiologists in diagnosing and treating various health problems.

After program prerequisites are met, radiologic technology is a 20 month, selective program in radiography (the art and science of creating medical images using X-rays). Radiographers provide vital information to physicians to diagnose fractures, illness, disease processes and possible malignancies. The program is accredited by the Joint Review Committee for Education in Radiologic Technology. Graduates of this program sit for The American Registry of Radiologic Technologists, a national certification examination. Those who pass the exam may sign the initials RT(R) following their name to indicate that they are Registered Technologists (Radiography).

## ADMISSIONS REQUIREMENTS

To enter this course of study, students must meet these institution and program-specific criteria:

- ✓ High school diploma or the equivalent (documentation sent to the registration office)
- ✓ Application for admission to ECC
- ✓ A placement test as specified by the college (some coursework requires minimum placement results)
- ✓ A completed radiologic technology application on file by the specified deadline (obtained from the Rolla Technical Institute/Center)
- ✓ Satisfactory criminal background check and drug screening upon admission
- ✓ Completion of prerequisites with a "C" or better prior to starting the program

\*Pre-entrance exam

## TRANSFER OPTIONS

The AAS degree is designed for students seeking employment immediately upon graduation. However, many of the credits, particularly the general education electives received with this degree, may qualify as transfer credit at four-year schools. These decisions are made solely by the bachelor degree-granting institution, not ECC.

Students seeking to transfer are advised to contact the institution of their choice before beginning a program or reviewing other degrees and coursework offered through ECC.

# RADIOLOGIC TECHNOLOGY

## ASSOCIATE OF APPLIED SCIENCE

### PROGRAM OF STUDY

AAS Program: 70 credit hours

This program of study is for a full-time student. Please contact an academic advisor for full course options. All academic schedules are subject to change. For the most current schedule, visit [www.eastcentral.edu](http://www.eastcentral.edu).

### PROGRAM PREREQUISITES

All courses listed below must be completed prior to beginning the Radiologic Technology program.

#### FALL SEMESTER

COURSE		HOURS
COL 100	Campus Orientation/	1
COL 101	Foundation Seminar	
ENG 101	English Comp I or	3
ENG 114	Honors English Comp I	
BIO 151	Introduction to Human Anatomy & Physiology	4
	Lecture/Lab	
SOC 101	General Sociology	3

#### SPRING SEMESTER

COURSE		HOURS
MTH110/ 140/150	Intermediate Algebra, Contemporary Math, Statistics (or higher)	3
CIS 101	Microcomputer Applications or	3
CIS 110	Technical and Digital Literacy	
PSC 100	Constitutions Study Module	0
HIS 101/ HIS 102/ PSC 102	History or Political Science Requirement	3
PSC CIVICS	Civics Achievement Exam (pass/fail)	0
<b>Total Hours</b>		<b>20</b>

### ADDITIONAL INFORMATION

In order to achieve success in the Radiologic Technology program, a student can expect to spend a minimum of 20-30 hours per week, outside of class, studying and preparing for class and clinical experiences. Some examples include: practicing skills in the lab, preparing for clinical assignments, studying for exams, preparing for class, developing written assignments and presentations.

### ARTICULATED COURSEWORK FROM ROLLA TECHNICAL INSTITUTE/CENTER

Students must meet program admission criteria as established by RTI/RTC and satisfy requirements for national certification.

COURSE		HOURS
RAD 101	Fundamentals of Radiologic Science & Healthcare	3
RAD 102	Radiation Protection, Production & Characteristics	1
RAD 104	Patient Care in Radiologic Science	4
RAD 106	Radiographic Physics I	3
RAD 153	Radiographic Physics II	3
RAD 156	Pharmacology & Drug Administration	1
RAD 203	Radiation Biology	2
RAD 251	Imaging Equipment	2
RAD 105	Radiographic Procedures I	5
RAD 152	Radiographic Procedures II	3
RAD 202	Advanced Radiographic Procedures I	3
RAD 252	Advanced Radiographic Procedures II	0-2
RAD 103	Digital Image Acquisition & Display I	1
RAD 154	Digital Image Acquisition & Display II	3
RAD 201	Digital Image Acquisition & Display III	2
RAD 151	Clinicals I	1
RAD 155	Clinicals II	2
RAD 157	Clinicals III	3
RAD 204	Clinicals IV	3
RAD 253	Clinicals V	0-3
RAD 290	Curriculum Review V	0
<b>Total Hours</b>		<b>50</b>