



Catalog Year Fall 2015

EAST CENTRAL COLLEGE

RADIOLOGIC TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE DEGREE

East Central College

1964 Prairie Dell Road
Union, Missouri 63084
636-584-6500
www.eastcentral.edu

Admissions Office

ECC Campus
636-584-6563
admissions@eastcentral.edu

Program Location

ECC Rolla
Rolla Technical Center
500 Forum Drive
Rolla, MO 65401

Program Coordinator

Maggie Ogden
573-458-0160
mogden@rolla.k12.mo.us

Nursing and Allied Health Division Chair

Robyn Walter
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Accreditation

East Central College is
accredited by the Higher
Learning Commission of the
North Central Association of
Colleges and Schools
30 N. LaSalle St., Suite 2400
Chicago, Illinois 60602-2504
800-621-7440

The ECC Radiologic Technology
Program is accredited by the
Joint Review Committee
for Education in Radiologic
Technology
20 N. Wacker Drive, Suite 2850
Chicago, Illinois 60606-3182
312-704-5300

The Rolla Technical Institute/
Center is a candidate
for accreditation by the
Commission of the Council On
Occupational Education.

THE CAREER

Radiologic technologists take X-rays and administer non-radioactive materials into patients' bloodstreams for diagnostic purposes. These professionals produce X-ray films (radiographs) of parts of the human body for use in diagnosing medical problems. Radiologic technologists prepare patients for 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

Those pursuing a career in this field should:

- Be sensitive to patients' physical and psychological needs
- Pay close attention to detail
- Be able to follow instructions and work as part of a team
- Have mechanical ability and manual dexterity

EMPLOYMENT AND SALARY INFORMATION

The radiologic technology profession is experiencing faster-than-average job growth. By 2020, the number of positions is expected to increase by 28 percent*.

In May 2013, average annual earnings of radiologic technologists were \$56,760. The middle 50 percent earned between \$44,950 and \$67,360. The lowest 10 percent earned less than \$37,060, and the highest 10 percent earned more than \$78,440

The average salary for these professionals in Missouri is \$24.34* per hour.

Radiologic technologists find employment in:

- ✓ General Medical and Surgical Hospitals
- ✓ Physicians' Offices
- ✓ Outpatient Care Centers
- ✓ Medical and Diagnostic Laboratories
- ✓ Federal Executive Branch (OES Designation)

* Sources: U.S Department of Labor Statistics; State of Missouri

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 complex X-ray and darkroom equipment designed to record images, which aid radiologists in diagnosing and treating various health problems.

After program prerequisites are met, radiologic technology is a two-year, 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

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.

■ **ROLLA**
573-466-4100

■ **SULLIVAN**
573-468-8287

■ **UNION**
636-584-6588

■ **WASHINGTON**
636-239-0598

WWW.EASTCENTRAL.EDU

RADIOLOGIC TECHNOLOGY

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PROGRAM OF STUDY

Students should plan on attending full-time while completing program-specific courses. Course schedule is subject to change. The radiology classes are only offered at the ECC Rolla site; the general education courses may be completed at any location. Please review the online college schedule at www.eastcentral.edu for the most current course offerings.

YEAR 1

FALL SEMESTER

COURSE	HOURS
FS 1000 Campus Orientation/ FS 1001 Foundation Seminar	1
EN 1223 English Comp I or EN 1233 Honors English Comp I	3
SC 1000 Laboratory Safety for Students	0
BI 1804 Introduction to Human Anatomy & Physiology Lecture/Lab	4
PE Requirement	1
Humanities Requirement	3
Total Hours	12

SPRING SEMESTER

COURSE	HOURS
PY 1103 General Psychology	3
CS 1003 Microcomputer Applications or CS 1013 Survey of Computers & Information Systems	3
Second English Requirement	3
MT 1303 Intermediate Algebra (or higher)	3
HI 1000/ PS 1000 Constitutions Study Module	0
History or Pol. Science Requirement	3
Total Hours	15

ALL OF THE ABOVE COURSES MUST BE COMPLETED
PRIOR TO BEGINNING THE RADIOLOGIC TECHNOLOGY
PROGRAM.

ARTICULATED COURSEWORK FROM ROLLA TECHNICAL
INSTITUTE/CENTER; STUDENTS MUST MEET PROGRAM
ADMISSION CRITERIA AS ESTABLISHED BY RTI/RTC AND
SATISFY REQUIREMENTS FOR NATIONAL CERTIFICATION.

RA 1103 Radiographic Procedures I	3
RA 1123 Fundamentals of Radiologic Science & Healthcare	3
RA 1133 Patient Care in Radiologic Science	3
RA 1143 Medical Terminology	3
RA 1153 Radiographic Physics I	3
RA 1161 Radiation Protection, Production & Characteristics	1
RA 1171 Digital Image Acquisition & Display I	1
RA 1181 Film Processing	1
RA 1195 Clinical Practicum I	5
RA 1223 Radiographic Procedures II	3
RA 1232 Film-Screen Image Acquisition	2
RA 1263 Radiographic Physics II	3
RA 1275 Clinical Practicum II	5
RA 1313 Digital Image Acquisition & Display II	3
RA 1323 Radiographic Procedures III	3
RA 1331 Quality Assurance	1
RA 1342 Imaging Equipment	2
RA 1362 Pharmacology & Drug Administration	2
RA 1375 Clinical Practicum III	5
RA 1422 Radiation Biology	2
RA 1433 Radiographic Procedures IV	3
RA 1445 Clinical Practicum IV	5
RA 1510 Curriculum Review V	0.5
RA 1532 Image Analysis	2
RA 1541 Radiographic Procedures V	1
RA 1555 Clinical Practicum V	5
Total Articulated Hours	70.5