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NEW PROGRAM PROPOSAL FORM

Sponsoring Institution(s): State Fair Community College

Program Title: Radiography Imaging

Degree/Certificate: Associate of Applied Science

Options:


Delivery Site(s): State Fair Community College, Sedalia Campus

CIP Classification: 51.0911

Implementation Date: Spring 2015

Cooperative Partners:

AUTHORIZATION:

Dr. Brent Bates, Vice President of Educational Services		6/24/2014
_____ Name/Title of Institutional Officer	_____ Signature	_____ Date

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_____ Person to Contact for More Information	_____ Telephone	

Rationale for the program

SFCC will offer the associate degree to allow students planning to enroll in, currently enrolled in, or recently graduated from a program that does not offer an associate degree. These programs include hospital based programs and military training. The main target market is military members.

The following information was retrieved from <https://www.arrt.org/Certification/Academic-Degree-Requirement>

Eligibility requirements for ARRT certification in Radiography, effective January 1, 2015, call for candidates to have earned an associate (or more advanced) degree from an accrediting agency recognized by ARRT.

ARRT believes that the general education courses required for an academic degree will provide a firm foundation to support the evolving role of the technologist and the lifelong learning necessitated by the increasing rate of technological change. Quantitative and communication skills and understanding of human behavior that are acquired through general education classes are believed by ARRT to have value in continuing to shape professionalism and advancement of a Registered Technologist's role in healthcare. The degree requirement will apply to graduates on or after January 1, 2015.



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STUDENT ENROLLMENT PROJECTIONS

Projected student enrollment has been estimated at 5 full time, and five new part time students each year. The radiology specific courses will be combined with the Advanced Placement Radiography students and this number is also based on the ability of one instructor to effectively teach the students in the online environment; and for one part-time support staff member to process required paperwork.

Year	1	2	3	4	5
Full Time	5	5	5	5	5
Part Time	5	10	10	10	10
Total	10	15	15	15	15

Market demand/societal need – The main target market for the online training opportunity are military members who would like to become qualified to sit for the ARRT Radiography registry. The Medical Education and Training Campus (METC) which provides training in Radiography for the Air Force, Army, Navy, and Coast Guard, graduates more than 300 students each year in the various branches of service. In 2013, of 392 graduates only 36 sat for the ARRT registry and of those 36, 32 passed. Completion of this AAS training will provide those graduates with the ability to sit for the registry and the additional radiography review courses required in this program will provide graduates with the confidence to apply for, and pass the ARRT Radiography registry.

Program duplication – There are a variety of AAS Radiography Imaging programs available that allow students to complete a degree but most college-based programs are arranged to meet the specific requirements of one program. The main target market for this program is military members, but anyone who will be completing radiography training through an institution that does not offer a degree will be eligible. We know of no other programs that embed additional radiology specific courses into the completion portion of the degree or that cater to the same diverse population.

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PROGRAM STRUCTURE

A. Total credits required for graduation: 61 cr hrs

B. Residency requirements, if any: Complete at SFCC at least 15 credit hours toward the degree.

C. General education: Total credits: 15

Courses (specific courses OR distribution area and credits):

Mathematics 3 cr. Communications 3 cr. American Institutions 3 cr.

Six credit hours of general education courses from two of the following areas: Communication, Mathematics, Social and Behavioral Sciences, Higher Order Thinking, Valuing, Managing Information, Life and Physical Science (Please see attachment: AAS Radiography Imaging Gen Ed Courses)

D. Major requirements: Total credits: 46 credit hours – Please see attachment: AAS Radiography Imaging Required Courses

E. Free elective credits: 0 (Sum of C, D, and E should equal A.)

F. Requirements for thesis, internship or other capstone experience:
None

G. Any unique features such as interdepartmental cooperation:
None

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Form PS – Program Structure

General Education requirements for A.A.S. in
Radiography Imaging

General Education Core 15 Hours

Communications 3 Hours

ENGL 101 English Composition I 3
ENGL 102 English Composition II 3
ENGL 110 Business Communications 3
ENGL 112 Technical Writing 3

Mathematics 3 Hours

MATH 101 Business Math 3
MATH 107 Technical Math I 3
MATH 108 Technical Math II 3
MATH 112 Intermediate Algebra 3
MATH 114 College Algebra 3
MATH 116 Finite Math 3
MATH 117 Contemporary Mathematics 3
MATH 120 Trigonometry 3
MATH 122 Precalculus Math 5
MATH 125 Calculus for Business 3
MATH 127 Business Statistics 3
MATH 130 Calculus and Analytic Geometry I 5

American Institutions 3 Hours

HIST 101 U.S. History Before 1877 3
HIST 102 U.S. History Since 1877 3
POLS 101 American/National Government 3
These courses satisfy the state requirement for
the Missouri Constitution. Students transferring
credit for American history or national
government from out-of state must complete
POLS 102 Missouri Constitution.

General Education Electives* 6 Hours

*Each AAS degree program includes six hours of
general education elective courses from two of the
following areas:

Communications

ENGL 101, ENGL 102, ENGL 110, ENGL 112,
SPTH 101

Mathematics

MATH 101, MATH 107, MATH 108, MATH 112,
MATH 114, MATH 116, MATH 117, MATH 120,
MATH 122, MATH 125, MATH 127, MATH 130

Social and Behavioral Sciences

BADM 101, BADM 107, ECON 101, ECON 102,
GEOG 101, HIST 108, HIST 109, POLS 103,
PSY 101, PSY 102, PSY 104, SOC 100, SOC
102

Higher-Order Thinking

BADM 103, ENGL 102, SOC 120

Valuing

PHIL 101, PHIL 104, SOC 102, SOC 120

Managing Information

CAPP 125, CIS 103, ENGL 101, ENGL 102,
HEOC 140

Life and Physical Sciences

AGRI 108, AGRI 118, AGRI 119, BIO 100, BIO
103, BIO 105, BIO 112, BIO 125, BIO 126, BIO
207, BIO 208, CHEM 101, CHEM 123, EASC
101, EASC 106, EASC 116, EASC 120, PHYS
103, PHYS 105, PHYS 118, PHYS 125

Humanities and Fine Arts

AGRI 106, ART 101, ART 120, FREN 101, LIT
101, LIT 107, LIT 109, LIT 112, LIT 114, MUS
101, MUS 103, MUS 104, PHIL 101, PHIL 102,
PHIL 104, SOC 120, SPAN 101, SPAN 120,
SPTH 107, SPTH 125

AAS Radiography Imaging

Required courses:

	Class Name	Cr Hrs
RADT 101	Intro to Med Term and Medical Imaging	3
RADT 103	Human Body Structures and Functions	4
RADT 105	Ethics and Patient Care I	3
RADT 111	Radiography Positioning I	3
RADT 113	Radiography Positioning II	3
RADT 121	Medical Imaging Externship I	3
RADT 123	Medical Imaging Externship II	3
RADT 131	Introduction to Radiation Protection and Bio	2
RADT 141	Radiation Physics I	3
RADT 151	Medical Imaging Equipment and Exposures I	3
APR 161	Image Analysis and Positioning Review	3
APR 163	Medical Imaging Registry Review	4

Optional Courses: * Must complete a minimum of nine (9) credit hours from the list below

	Class Name	Cr Hrs
RAD 160	CT Sectional Anatomy and Pathology	*4
RAD 162	CT Physics and Instrumentation	*3
RAD 164	CT Imaging Procedures	*3
RAD 166	CT Clinical Education	*6
RAD 168	CT Registry Review	*3
APR 107	Ethics and Patient Care Review	*3
APR 115	Radiography Positioning III	*3
APR 117	Radiography Positioning IV	*3
APR 133	Advanced Radiation Protection & Biology	*3
APR 153	Imaging Equipment and Exposures II	*3
APR 143	Radiation Physics II	*3
APR 125	Medical Imaging Externship III	*6



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PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name: State Fair Community College

Program Name: Radiography Imaging

Date: May 2014

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.)

Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.

Applicants will be required to meet State Fair Community College Admission Procedures: Submit a SFCC application for admission form, Submit Official College Transcripts from all colleges attended, submit official transcripts documenting current enrollment or successful completion a JRCERT accredited radiography or a military radiography training program. For all college courses completed as dual credit, transcripts must be requested from each college awarding credit. Take a placement Test: ACT, ASSET, or COMPASS. All development courses must be taken and passed with a "C" or higher, based upon assessment test scores. A Radiography Imaging application packet must be completed and submitted by all applicants. When applying for this program applicants are required to be currently enrolled or a recent graduate of an accredited Radiography training program. Students must have completed the accredited radiography training within 18 months of beginning the Radiography Imaging training as a full time student.

- Characteristics of a specific population to be served, if applicable.

When applying for this program applicants are required to be currently enrolled or a recent graduate of an accredited Radiography training program. Students must have completed the accredited radiography training within 18 months of beginning the Radiography Imaging training as a full time student.

Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

Instructor must have a minimum of an Associate degree, a Bachelor's degree is preferred. Instructor must also be an American Registry of Radiologic Technologist (ARRT) registered radiographer.

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

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Full time faculty will teach greater than 40% of the credit hours.

- Expectations for professional activities, special student contact, teaching/learning innovation.

Radiography Imaging degree completion courses will be offered through the online format.

Enrollment Projections

- Student FTE majoring in program by the end of five years.

Five full time students enrolled each year.

- Percent of full time and part time enrollment by the end of five years.

By the end of five years full time enrollment of five students (33%) is projected and part time enrollment of 10 students (67%) is projected.

Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.

Ten graduates each year.

- Special skills specific to the program.

Radiologic technologists are the medical personnel who perform diagnostic imaging examinations. They are educated in anatomy, patient positioning, examination techniques, equipment protocols, radiation safety, radiation protection and basic patient care. Registered radiologic technologists — known as "R.T.s" — must complete formal education in an accredited hospital-based program or a two- or four-year educational program at an academic institution and must pass a national certification examination. To remain registered, they must earn continuing education credits. Radiologic technologists who perform imaging examinations are responsible for accurately positioning patients and ensuring that a quality diagnostic image is produced. They work closely with radiologists, the physicians who interpret medical images to either diagnose or rule out disease or injury. For the images to be interpreted correctly by the radiologist, the imaging examination must be performed properly by a radiologic technologist.

- Proportion of students who will achieve licensing, certification, or registration.

75% will attempt and pass the ARRT Radiography registry on first attempt.

- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.

75% will attempt and pass the ARRT Radiography registry on first attempt. Graduates must obtain a scaled score of 75 or higher to pass the registry.

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- Placement rates in related fields, in other fields, unemployed.

At least 75% of graduates will be employed as radiographers, continuing their education, or in the military within twelve months of graduation.

- Transfer rates, continuous study.

Please see above.

Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide reasons.

No separate accreditation for the AAS – Radiography Imaging completion degree. This degree will make the student eligible and prepared to sit for the ARRT Radiography registry. Students will be completing general education requirements to earn an AAS degree to meet new standards set by ARRT (beginning January 1, 2015) to become eligible to sit for the registry. Seven credit hour of registry review information will be a required component and 9 credit hours of radiology electives will be included in this degree to better prepare the graduates for the registry and to become more marketable upon graduation.

Alumni and Employer Survey

- Expected satisfaction rates for alumni, including timing and method of surveys.

Within one year of graduation Graduate Surveys will have a composite score of three or greater on a five point rating scale.

- Expected satisfaction rates for employers, including timing and method of surveys.

Within one year of graduation Employer Surveys will demonstrate a composite score of three or greater on a five point rating scale.

State Fair Community College is well equipped to support this program because we have a strong online learning environment dedicated to ensuring high quality course development and instruction with a student-centered focus. Also, the current Radiology program director completed her Radiologic Technology training in the military which provides an improved understanding of the main target market of this program.

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