RADIOLOGIC AND IMAGING SCIENCES

Bachelor of Science Degree in Radiologic and Imaging Sciences (CIP# 1105109112)

Limited Access

School of Health Sciences

The Radiologic and Imaging Sciences Bachelor's degree offers graduates of Radiography, Sonography, Nuclear Medicine, or Radiation Therapy Associate degree programs who hold professional certification the opportunity to expand their knowledge in advanced modalities or quality management and administration. The Radiologic and Imaging professions are challenging and growing professions with career opportunities in areas such as computed tomography, magnetic resonance imaging, mammography, angiography, and quality assurance. With professional experience and additional education at the baccalaureate level, opportunities for management and education career options are enhanced. The Radiologic and Imaging Sciences program is accredited by the Joint Review Committee on Education in Radiologic Technology (J.R.C.E.R.T.).

With the exception of the Practicum course, the BSRAD program is an online program.

Since the BSRAD is a limited access program, admission to Valencia does not imply acceptance to the program.

Program Concentrations

- · Cardiac Ultrasound Concentration
- Computed Tomography (CT) Concentration
- · Leadership Concentration
- · Magnetic Resonance Imaging (MRI) Concentration
- · Mammography Concentration
- · Vascular Ultrasound Concentration

Potential Careers

- Radiology Management/Administration
- Education
- · Advanced Clinical Practice in:
 - Computed Tomography
 - Magnetic Resonance Imaging
 - Mammography

Salary & Earnings Information

For salary and wage information, visit: www.salary.com (https://www.salary.com)

Contact Information

For more information about the program or admission requirements, please email AlliedHealthBS.ATC@valenciacollege.edu.

For the most up-to-date information, visit https://valenciacollege.edu/academics/programs/health-sciences/radiologic-imaging-sciences/.

Your Student Success Coach contact information can be found in MyVC. Log into MyVC, click on the Courses tab, and check your Academic Profile information to find a link to your Coach.

Overview of Radiologic and Imaging Sciences

For the Radiologic and Imaging Sciences program, students must hold current professional certification and a degree in an imaging field. Students must provide proof of current professional certification or its equivalent in their respective imaging discipline: from the American Registry of Radiologic Technologists (ARRT), American Registry of Diagnostic Medical Sonographers (ARDMS), or Nuclear Medicine Technology Certification Board (NMTCB).

Students must have a minimum of 68 accepted credits and one of the following degrees from a regionally accredited institution:

- · Associate Degree in Diagnostic Medical Sonography
- · Associate Degree in Nuclear Medicine Technology
- · Associate Degree in Radiation Therapy
- · Associate Degree in Radiography

Students who hold the appropriate professional certification and an Associate degree or higher in any other field may also be considered for admission.

For admission, the following prerequisite coursework must be completed with a minimum grade of C:

| ENC 1101 | FRESHMAN COMPOSITION I (GR) +*~ | 3 |
|--------------|---------------------------------|---|
| MAC 1105 | COLLEGE ALGEBRA (GR) **~ | 3 |
| BSC 2093C | +*~ | 4 |
| or BSC X085C | | |
| BSC 2094C | | 4 |
| or BSC X086C | | |

In their junior and senior years, students will be required to complete the following coursework:

Any additional credits needed to complete the state-mandated 36 General Education credits in all five areas according to Valencia program requirements. If a student holds an Associate in Arts degree or higher from a regionally accredited institution, all General Education requirements will be satisfied https://catalog.valenciacollege.edu/degrees/bachelorofscience/generaleducation/ (http://catalog.valenciacollege.edu/degrees/bachelorofscience/generaleducation/)

27 credits in upper-division core courses

15 credits in upper-division concentration area

Students are responsible for meeting the degree graduation requirements found under the *Program Requirements* tab located on this page.

Admission Requirements

- Be a U.S. citizen or U.S. permanent resident or in a non-resident immigrant category other than F or J visa categories
- Be able to complete the clinical placement in the Valencia College service district (Orange and Osceola counties), or choose the Leadership Concentration or an advanced modality securing your own clinical experience

- Review the current BSRAD Program Guide and updates at https:// valenciacollege.edu/academics/programs/health-sciences/ radiologic-imaging-sciences/index.php (https://valenciacollege.edu/ academics/programs/health-sciences/radiologic-imaging-sciences/)
- Submit a completed Valencia Application for Admission using the Bachelor's Degree & ATC application, and be in Active Student Status.
- · Have a minimum overall college GPA of 2.5.
- Submit official transcripts from all prior colleges and universities
 with one denoting completion of an Associate degree or higher
 from a regionally accredited institution with a minimum of
 68 accepted credits of course work, including the previouslyspecified General Education coursework. An applicant who holds
 a professional credential in the field and any associate degree or
 higher from a regionally accredited institution may substitute their
 professional credential in lieu of having the degree in an eligible field.
 Documentation will be required.
- Following your admission to Valencia College as a candidate
 for the Bachelor of Science, complete the online Bachelor's
 Degree Orientation and submit a copy of your current certification
 with ARRT, ARDMS, NMTCB, or equivalent certification to
 AlliedHealthBS.ATC@valenciacollege.edu.

Note: Prior to enrollment in a clinical practicum, provide documentation of the following requirements:

- · Current criminal background check
- Fingerprinting
- · Drug testing
- · Physical exam forms
- · Up-to-date immunization data

Program Outcomes

- Perform effective communication skills within the healthcare environment.
- · Practice professional behaviors in the healthcare setting.
- Perform entry level skills as described by the scope of practice for selected clinical concentration.
- Execute safe clinical decision making in healthcare environment.
- · Demonstrate information literacy.

Degree Requirements

Students who did not have a Humanities and/or Social Science course prior to program admission must have at least 6 credits in both areas for degree graduation.

| Communication | | 6 |
|----------------------|---|----|
| ENC 1102 | FRESHMAN COMPOSITION II **~ | |
| SPC 1608 | FUNDAMENTALS OF SPEECH ~ | |
| or SPC 1017 | INTERPERSONAL COMMUNICATION | |
| Mathematics | STA 2023 is recommended **~ | 3 |
| General Education | See Gen. Ed. Requirements ~ | 9 |
| Student Choice | · | |
| | ging Core Requirements | 21 |
| | nging Core Requirements RADIOLOGY INFORMATION SYSTEMS ** | 21 |
| Radiological and Ima | | 21 |

| Total Credit Hours | | 60 |
|---------------------------|--|----|
| Concentration (See below) | | 15 |
| Electives (2): Radio | ologic and Imaging Sciences Electives [†] | 6 |
| HSA 4184 | LEADERSHIP IN HEALTHCARE ** | |
| HSC 4652 | ETHICS AND HEALTH CARE IN A PLURALISTIC SOCIETY ** | |
| HSC 4640 | INTRODUCTION TO HEALTH LAW ** | |
| HSC 4555 | PATHOPHYSIOLOGIC MECHANISMS ** | |
| | | |

Concentration: Magnetic Resonance Imaging

| Total Credit Hours | | 15 |
|---------------------------|--|----|
| RTE 4943L | MRI PRACTICUM ^{+*} | 3 |
| RTE 3592 | MR IMAGING AND PROCEDURES ** | 3 |
| RTE 3591 | MRI PRINCIPLES AND INSTRUMENTATION +* | 3 |
| RTE 3765 | ANATOMY FOR THE MEDICAL IMAGER ** | 3 |
| RTE 3116 | ADVANCED PATIENT CARE ** | 3 |

Concentration: Computed Tomography

(For Radiographers, Radiation Therapists, and Nuclear Medicine Technologists only)

| Total Credit Hours | | 15 |
|--------------------|-----------------------------------|----|
| RTE 4942L | CT PRACTICUM ^{+*} | 3 |
| RTE 4474 | QUALITY MANAGEMENT +* | 3 |
| RTE 3590 | COMPUTED TOMOGRAPHY ** | 3 |
| RTE 3765 | ANATOMY FOR THE MEDICAL IMAGER ** | 3 |
| RTE 3116 | ADVANCED PATIENT CARE ** | 3 |

Concentration: Mammography

(For Radiographers only)

| Total Credit Hours | | 15 |
|---------------------------|-----------------------------------|----|
| RTE 4941L | MAMMOGRAPHY PRACTICUM ** | 3 |
| RTE 4474 | QUALITY MANAGEMENT +* | 3 |
| RTE 3588 | MAMMOGRAPHY ** | 3 |
| RTE 3765 | ANATOMY FOR THE MEDICAL IMAGER ** | 3 |
| RTE 3116 | ADVANCED PATIENT CARE ** | 3 |

Concentration: Cardiac Ultrasound

(For Radiographers and Sonographers only)

| RET 4440C | CARDIAC ULTRASOUND I ** | 3 |
|-----------|--|---|
| RET 4443 | CARDIAC ULTRASOUND PHYSICS ** | 2 |
| RET 4942L | CARDIAC ULTRASOUND CLINICAL PRACTICE I ** | 2 |
| RET 4441C | CARDIAC ULTRASOUND II ** | 3 |
| RET 4943L | CARDIAC ULTRASOUND CLINICAL PRACTICE II ** | 2 |

| Total Credit Hours | 1.5 |
|-----------------------------------|-----|
| RTE 3116 ADVANCED PATIENT CARE +* | 3 |

Concentration: Vascular Ultrasound

(For Sonographers only)

| SON 3172C | INTRODUCTION TO VASCULAR SONOGRAPHY | 3 |
|-----------|--|---|
| SON 3173 | VASCULAR SONOGRAPHY II | 3 |
| SON 3806L | VASCULAR SONOGRAPHY PRACTICUM I | 2 |
| SON 4174 | VASCULAR SONOGRAPHY III | 2 |
| SON 4816L | VASCULAR SONOGRAPHY PRACTICUM II | 2 |
| Electives | Radiologic and Imaging Sciences Electives +* | 3 |

Total Credit Hours 15

Concentration (non-clinical): Leadership

| Total Credit Hours | | 15 |
|--------------------|---|----|
| HSA 4502 | HEALTH CARE RISK MANAGEMENT ** | 3 |
| HSA 4110 | ORGANIZATIONAL BEHAVIOR ** | 3 |
| HSA 4340 | PRINCIPLES OF HUMAN RESOURCES MANAGEMENT ** | 3 |
| RTE 4474 | QUALITY MANAGEMENT ** | 3 |
| RTE 3205 | ADMINISTRATION AND SUPERVISION ** | 3 |

Radiologic and Imaging Sciences Electives

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|---------------------|---|---|
| RTE 3253 | TEACHING IN THE HEALTH PROFESSION ** | 3 |
| HSA 4340 | PRINCIPLES OF HUMAN RESOURCES MANAGEMENT ** | 3 |
| RTE 3205 | ADMINISTRATION AND SUPERVISION +* | 3 |
| RTE 4474 | QUALITY MANAGEMENT ** | 3 |
| RTE 3590 | COMPUTED TOMOGRAPHY ** | 3 |
| RTE 3591 | MRI PRINCIPLES AND INSTRUMENTATION +* | 3 |
| RTE 3593C | ADVANCED MRI PROCEDURES (+*) | 3 |
| RTE 3588 | MAMMOGRAPHY ** | 3 |
| RTE 3116 | ADVANCED PATIENT CARE ** | 3 |
| RTE 3765 | ANATOMY FOR THE MEDICAL IMAGER ** | 3 |
| HSA 4110 | ORGANIZATIONAL BEHAVIOR ** | 3 |
| HSA 4341 | CONFLICT MANAGEMENT IN HEALTH CARE ** | 3 |
| HSC 4500 | EPIDEMIOLOGY ** | 3 |
| RET 4034 | HEALTH CARE DELIVERY AND ACCESS ** | 3 |
| RET 4440C | CARDIAC ULTRASOUND I ** | 3 |
| RET 4441C | CARDIAC ULTRASOUND II ** | 3 |
| HSA 4502 | HEALTH CARE RISK MANAGEMENT ** | 3 |

- + This course must be completed with a grade of C or better.
- * This course has a prerequisite; check description in Valencia catalog. (GB)enotes a Gordon Rule course.

Note:

Specialized courses may not be offered every session.

Prior to beginning the practicum/clinical, students must provide the following documentation:

- · Current criminal background check and fingerprinting
- · Drug screening
- · Physical exam form
- · Record with up-to-date immunization data

Transfer Notes:

- Students who hold an A.A. or Bachelor's degree from a regionally accredited institution have satisfied Valencia's general education program requirements.
- Students transferring from a regionally accredited institution with the general education program (GEP) requirements of that institution met have thereby satisfied Valencia GEP requirements.

Registration Note:

Once a student has been approved as "Course Registration Eligible," it is the student's responsibility to secure enrollment in the desired course(s).