RADIOLOGIC AND IMAGING SCIENCES

• Cardiac Ultrasound Concentration
• Computed Tomography (CT) Concentration
• Leadership Concentration
• Magnetic Resonance Imaging (MRI) Concentration
• Mammography Concentration

Bachelor of Science Degree in Radiologic and Imaging Sciences

Limited Access
Division of Allied Health

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; students must submit a Health Sciences BSRAD Program Application and be accepted to the program.

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 or www.smart-college-choices.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 http://net1.valenciacollege.edu/future-students/degree-options/bachelors/.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>FRESHMAN COMPOSITION I (GR)</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>COLLEGE ALGEBRA (GR)</td>
<td>3</td>
</tr>
<tr>
<td>BSC 2093C</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY I</td>
<td>4</td>
</tr>
<tr>
<td>or BSC X085C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSC 2094C</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY II</td>
<td>4</td>
</tr>
<tr>
<td>or BSC X086C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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://nextcatalog.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
• Have an address in the State of Florida
• 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 previously-specified 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 Health Sciences Program Application for the B.S. in Radiologic and Imaging Sciences with a copy of your current certification with ARRT, ARDMS, NMTCB, or equivalent certification and the application fee.

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 advanced level skills as described by the scope of practice for selected clinical concentration (CT, MRI, or QM).
• 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.

<table>
<thead>
<tr>
<th>Communication</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1102</td>
<td>Freshman Comp II **~</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>FUNDAMENTALS OF SPEECH *</td>
</tr>
<tr>
<td>or SPC 1017</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>Humanities</td>
<td>See Gen. Ed. Requirement (GR) **~</td>
</tr>
<tr>
<td>Social Science</td>
<td>See Gen. Ed. Requirement (GR) **~</td>
</tr>
<tr>
<td>Mathematics</td>
<td>STA 2023 is recommended **~</td>
</tr>
<tr>
<td>General Education</td>
<td>See Gen. Ed. Requirements</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Radiological and Imaging Core Requirements

| RTE 3213     | RADIOLOGY INFORMATION SYSTEMS ** |
| RTE 4574     | ADVANCED IMAGING MODALITIES ** |
| HSC 4555     | Pathophysiologic Mechanisms ** |
| HSC 4640     | HEALTH LAW AND COMPLIANCE ** |
| HSC 4652     | ETHICS AND HEALTH CARE IN A PLURALISTIC SOCIETY ** |
| HSA 4184     | LEADERSHIP IN HEALTHCARE ** |
| HSA 4702     | RESEARCH METHODS AND INFORMATION LITERACY ** |

Electives

| Radiologic and Imaging Sciences Electives | 6 |

Concentration (See below)

Total Credit Hours 60

Concentration: Magnetic Resonance Imaging

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

| RTE 3116  | ADVANCED PATIENT CARE ** |
| RTE 3765  | ANATOMY FOR THE MEDICAL IMAGER ** |
| RTE 3591  | MRI PRINCIPLES AND INSTRUMENTATION ** |
| RTE 3592  | MR IMAGING AND PROCEDURES ** |
| RTE 4943L | MRI PRACTICUM ** |

Total Credit Hours 15

Concentration: Computed Tomography

(For Radiographers only)

| RTE 3116  | ADVANCED PATIENT CARE ** |
| RTE 3765  | ANATOMY FOR THE MEDICAL IMAGER ** |
| RTE 3588  | MAMMOGRAPHY ** |
| RTE 4474  | QUALITY MANAGEMENT ** |
| RTE 4942L | CT PRACTICUM ** |

Total Credit Hours 15

Concentration: Mammography

(For Radiographers only)

| RTE 3116  | ADVANCED PATIENT CARE ** |
| RTE 3765  | ANATOMY FOR THE MEDICAL IMAGER ** |
| RTE 3588  | MAMMOGRAPHY ** |
| RTE 4474  | QUALITY MANAGEMENT ** |
| RTE 4941L | PRACTICUM ** |

Total Credit Hours 15

Concentration: Cardiac Ultrasound

(For Radiographers and Sonographers only)

| RET 4440C | CARDIAC ULTRASOUND I ** |
| RET 4443  | CARDIAC ULTRASOUND PHYSICS ** |
| RET 4942L | CARDIAC ULTRASOUND CLINICAL PRACTICE I ** |
| RET 4441C | CARDIAC ULTRASOUND II ** |
| RET 4943L | CARDIAC ULTRASOUND CLINICAL PRACTICE II ** |
| RTE 3116  | ADVANCED PATIENT CARE ** |

Total Credit Hours 15
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

RTE 3205  ADMINISTRATION AND SUPERVISION **  3
RTE 4474  QUALITY MANAGEMENT **  3
HSA 4340  PRINCIPLES OF HUMAN RESOURCES MANAGEMENT **  3
HSA 4110  ORGANIZATIONAL BEHAVIOR **  3
HSA 4341  CONFLICT MANAGEMENT IN HEALTH CARE **  3

Total Credit Hours  15

Radiologic and Imaging Sciences Electives

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  PROBLEMS IN PATIENT MANAGEMENT **  3
RET 4440C  CARDIAC ULTRASOUND I **  3
RET 4441C  CARDIAC ULTRASOUND II **  3

Degree Graduation Requirements
- Earn a minimum 2.0 Valencia and Overall GPA
- Earn a minimum grade of C (2.0) in all prerequisite and upper division courses
- Satisfy Valencia’s General Education requirements and Gordon Rule requirements unless you hold an Associate in Arts or Bachelor’s degree or have completed the entire general education program at a regionally accredited institution.
- Complete at least 42 semester credits of upper division course work
- Complete at Valencia at least 25% of the 128 hours degree program (32 credits), based upon the Florida College System’s requirement of a 2+2 admission into the baccalaureate program.
- Obtain a degree audit through your Atlas account and review it for readiness to submit your application for graduation.
- Submit an application for graduation online through Atlas by the deadline date listed in the Academic Calendar in the online official catalog. You must have at least the minimum number of college-level credits for your degree, including all courses for which you are registered, in order to submit a graduation application.
- Fulfill all financial obligations to Valencia.
- Complete two years of one foreign language or American Sign Language in high school or one year of foreign language in college (or equivalent proficiency prior to graduation).
- Total Semester Credits required - 128.

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).

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