Valencia College
2013-14 Admission Guide for the
A.S. to B.S. Bachelor of Science Degree in
Radiologic and Imaging Sciences (BSRAD)

Admission requirements are subject to change. Please check for any admission updates:
valenciacollege.edu/west/health/admissionupdates.cfm

Priority Application Deadlines

<table>
<thead>
<tr>
<th>Deadline</th>
<th>Term</th>
<th>Classes Begin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/26/13</td>
<td>Fall 2013</td>
<td>August 26, 2013</td>
</tr>
<tr>
<td>11/08/13</td>
<td>Spring 2014</td>
<td>January 6, 2014</td>
</tr>
<tr>
<td>4/14/14</td>
<td>Summer 2014</td>
<td>May 5, 2014</td>
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</table>

Valencia’s Radiologic and Imaging Sciences BS Degree Program is a limited access program and, therefore, admission to Valencia does not imply acceptance to the program; students must also submit a Health Sciences BSRAD Program Application and be accepted to the program. Students are admitted at the beginning of each term and applications submitted prior to the listed priority deadlines are more likely to be processed for the upcoming term.

PROGRAM CHECKLIST

1. Be a U.S. citizen or a U.S. permanent resident
2. Review this BSRAD Admission Guide and the Overview and Program Requirements in the online Valencia Catalog:
   http://catalog.valenciacollege.edu/degrees/bachelorofscience/astobsradiologicimagingsciences/
3. Submit a completed Valencia Application for Admission using the Bachelor’s Degree/Advanced Technical Certificate application (http://valenciacollege.edu/admissions-records/forms.cfm), pay the non-refundable $50 application fee and be in Active Student Status. Applicants must have an address in the State of Florida.
4. Have a minimum overall college GPA of 2.5 with minimum grades of C in ENC 1101 and in the Common Prerequisites
5. Submit official transcripts from all prior college and universities with one denoting completion of an Associate degree in Radiography, Diagnostic Medical Sonography, Nuclear Medicine Technology or Radiation Therapy, or equivalent, from a regionally accredited institution with a minimum of 68 credits of course work, including 18 credit hours of General Education, as indicated:
   ENC 1101 Freshman Composition (Gordon Rule)+* 3 Cr.
   Humanities 3 Cr.
   Social Science 3 Cr.
   Mathematics (Gordon Rule)+* 3 Cr.
   Science 6 Cr.

Complete the following Common Prerequisites for the B.S. Radiologic and Imaging Sciences:

MAC X105 College Algebra+ 3 Cr.

Select one of the following for Anatomy and Physiology+: 8 Cr

| ZOO X733C+ and PCB X703C+ or |
| BSC X093C+ and BSC X094C+ or |
| BSC X085C+ and BSC X086C+ or |
| BSC X085/BSC X085L+ and BSC X086/BSC X086L+ |

+ This course must be completed with a minimum grade of C.  * This course has a prerequisite.
6. Receive notification from Valencia Admissions Office of acceptance as a candidate for the B.S. in Radiologic and Imaging Sciences

7. Following your admission to Valencia College as a candidate for the Bachelor of Science, submit a Health Sciences Program Application for the B.S. in Radiologic and Imaging Sciences with a copy of your current certification with the American Registry of Radiologic Technologists (ARRT) or American Registry of Diagnostic Medical Sonographers (ARDMS) or Nuclear Medicine Technology Certification Board (NMTCB) or equivalent certification and the application fee.

The Health Sciences B.S. Program application is available at:
http://valenciacollege.edu/west/health/AppDeadlines.cfm

8. Following program admission notification from the Division of Allied Health, complete the online BS Degree Orientation if you have not previously attended a Valencia Orientation and meet with the Health Sciences Advisor to develop an education plan.

9. Prior to beginning the Practicum (clinical) course, the following documentation must be provided:
   - Current criminal background check and fingerprinting
   - Drug screening
   - Physical exam form
   - Record with up-to-date immunization data

The estimated total cost for the BS in Radiologic & Imaging Sciences degree, including tuition for the 60 credits of program requirements, special course fees, and associated expenses such as the background check and immunizations is $6838; this estimate does not include books.

Additional Pathways to the BS in Radiologic and Imaging Sciences

If you do not hold an associate degree or professional certification in Radiography, Diagnostic Medical Sonography, Nuclear Medicine Technology or Radiation Therapy, or equivalent, from a regionally accredited institution, Valencia offers the Associate in Science Degree in Radiography and in Diagnostic Medical Sonography. The Admission Guides for these programs are available via www.valenciacollege.edu/health. (Click on Guides and Updates.)

If you hold professional certification with ARRT or with ARDMS but do not hold an associate degree in Radiography or Sonography, you may be eligible to earn Valencia’s Associate in Science (AS) Degree in Radiography or in Diagnostic Medical Sonography via the Award of Credit process. You would complete specific courses at Valencia and then, based on your professional certification, you would be granted college credit for the required Radiography or Sonography courses and be awarded an AS Degree. For more information on the Award of Credit option, please e-mail healthscienceadvising@valenciacollege.edu or call 407-582-1288.
# BS in Radiologic and Imaging Sciences Degree Requirements 2013-14

<table>
<thead>
<tr>
<th>Communication</th>
<th>6</th>
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<tbody>
<tr>
<td>ENC 1102</td>
<td>FRESHMAN COMPOSITION II (GR) **~</td>
</tr>
<tr>
<td>SPC 1608</td>
<td>FUNDAMENTALS OF SPEECH ~</td>
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<tr>
<td>or SPC 1017</td>
<td>INTERPERSONAL COMMUNICATION</td>
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### Humanities (Gordon Rule, one with HUM prefix) **~

### Social Science ~

| POS 2041      | U.S. GOVERNMENT. ~ |

### Mathematics

| STA 2023      | STATISTICAL METHODS (GR) **~ |

### Radiologic and Imaging Sciences Core Requirements 27

| RTE 3116      | ADVANCED PATIENT CARE * |
| RTE 3213      | RADIOLOGY INFORMATION SYSTEMS * |
| RTE 3765      | ANATOMY FOR THE MEDICAL IMAGER * |
| RTE 4574      | ADVANCED IMAGING MODALITIES + |
| HSC 4555      | PATHOPHYSIOLOGY + |
| 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 ++ |

### Concentration: Magnetic Resonance Imaging 15

| RTE 3591      | MAGNETIC RESONANCE IMAGING I ** |
| RTE 3592      | MAGNETIC RESONCE IMAGING II ** |
| RTE 4941L     | PRACTICUM ++ |

Radiologic and Imaging Sciences Electives 6

**Total Credit Hours 15**
### Concentration: Computed Tomography
(For Radiographers, Radiation Therapists, and Nuclear Medicine Technologists only)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>RTE 3590</td>
<td>COMPUTED TOMOGRAPHY</td>
<td>3</td>
</tr>
<tr>
<td>RTE 4474</td>
<td>QUALITY MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>RTE 4941L</td>
<td>PRACTICUM</td>
<td>3</td>
</tr>
<tr>
<td>Radiologic and Imaging Sciences Electives</td>
<td>6</td>
<td></td>
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</tbody>
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**Total Credit Hours**: 15

### Concentration: Quality Management

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<tbody>
<tr>
<td>RTE 4474</td>
<td>QUALITY MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>RTE 3205</td>
<td>ADMINISTRATION AND SUPERVISION</td>
<td>3</td>
</tr>
<tr>
<td>RTE 4941L</td>
<td>PRACTICUM</td>
<td>3</td>
</tr>
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<td>Radiologic and Imaging Sciences Electives</td>
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**Total Credit Hours**: 15

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<tr>
<td>RTE 3253</td>
<td>TEACHING IN THE HEALTH PROFESSION</td>
<td>3</td>
</tr>
<tr>
<td>RTE 4208</td>
<td>MANAGED CARE CONCEPTS</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4340</td>
<td>PRINCIPLES OF HUMAN RESOURCES MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>RTE 3205</td>
<td>ADMINISTRATION AND SUPERVISION</td>
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<tr>
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<td>MAGNETIC RESONANCE IMAGING II</td>
<td>3</td>
</tr>
</tbody>
</table>

+ This course must be completed with a grade of C or better.

* This course has a prerequisite; check description in Valencia catalog.

(Continued)

**Foreign Language Proficiency Requirement**
- Two years of one foreign language or American Sign Language in high school or one year foreign language in college (or equivalent proficiency prior to graduation)
Degree Graduation Requirements

- Earn a 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 from a regionally accredited institution
- Complete at least 42 semester credits of upper division course work
- Complete, at Valencia, at least 25% of course work of the 60 credits required for the degree (15 semester credits)
- Total Semester Credits required – 128

Note:
Specialized courses may not be offered every session or on every campus.
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 Florida public institution with the general education program (GEP) requirements of that institution met have thereby satisfied Valencia GEP requirements.
- 1000 and 2000 level courses do not substitute for upper division 3000 – 4000 level courses.

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).
HEALTH SCIENCES PROGRAM GUIDELINES
FOR THE B.S. IN RADIOLOGIC & IMAGING SCIENCES (BSRAD)
AND
ADVANCED TECHNICAL CERTIFICATES IN CT AND MRI

Valencia’s Health Sciences programs are offered through the Divisions of Allied Health and Nursing which provide information about specific admission criteria for the programs. The Health Sciences Admission Guides, of which this is one, are developed for a specific academic year (August to July) and, as a rule, changes to admission and program requirements become effective at the start of an academic year; however, Valencia College reserves the right to make changes in admission and program requirements as circumstances require. If a mid-year change becomes necessary, it will be indicated via http://valenciacollege.edu/west/health/admissionupdates.cfm.

Except for the Practicum course, the BSRAD and Advanced Technical Certificates in CT and MRI are online programs; the Practicum is a three-credit clinical rotation completed in a health care facility.

You may apply to only one bachelor-level Health Sciences program at a time and enrollment is limited to only one Health Sciences program in a term.

All communication from Valencia relative to program admission will be via your Atlas e-mail address. Written communication you initiate with Valencia staff should also be via your Atlas e-mail account and should include your full name and your Valencia ID number.

MANDATORY ORIENTATION
To register for the BS in Radiologic and Imaging Sciences, you must have completed New Student Orientation for Valencia students at some time since you first applied to Valencia; if you have not, there will be a hold on your record that will prevent registration until you complete the online Bachelor’s Degree Orientation.

BACKGROUND CHECK, FINGERPRINTING, DRUG TESTING, IMMUNIZATIONS AND CPR CERTIFICATION
The Health Sciences programs include student clinical rotations in external affiliate health care facilities with which Valencia has agreements for student clinical assignments. The affiliates’ policies require that students serving in a clinical rotation be cleared of offenses that would disqualify them from participating in student clinical assignments. Thus, all students accepted to a Health Sciences program are required to submit to a criminal background check, fingerprinting and drug screening as well as provide documentation of specific immunizations and CPR certification following acceptance to a program. The timeframe for meeting these requirements will be provided in the Orientation materials that will be sent to the student upon acceptance through Atlas e-mail.

If you have a positive background check, fingerprint or drug test, you may be denied enrollment in a Health Sciences program due to the inability to participate in a student clinical assignment. If you have concerns regarding known background issues, it is recommended that you e-mail questions to hscompliance@valenciacollege.edu.

Valencia is an Equal Opportunity Institution.
### Critical Thinking

- Critical Thinking ability sufficient for safe clinical judgment.
  - * Identify cause-effect relationships in clinical situations.
  - * Evaluate radiographs to ascertain that they contain proper identification and are of diagnostic value.

### Interpersonal

- Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.
  - * Establish rapport with patients, families, and colleagues.

### Communication

- Communication abilities sufficient for interaction with others in verbal and written form.
  - * Communicate in English to the patient in order to: converse, instruct the patient, relieve anxiety, gain their cooperation during procedures, understand the patient when communicating symptoms of a medical emergency.
  - * Read the patient’s medical chart and/or physician’s orders.
  - * Legibly write patient history.
  - * Document own actions and patient responses as indicated.

### Mobility

- Physical abilities sufficient to move from room to room and maneuver in small spaces.
  - * Assist all patients, according to individual needs and abilities, in moving, turning, transferring from transportation devices to the x-ray table, etc.
  - * Be able to push, pull, and lift 40 pounds.
  - * Push a stretcher, wheelchair or other transportation device without injury to self, patient or others.
  - * Push a portable x-ray machine from one location to another, including turning corners, getting on and off of an elevator, and manipulating it in a patient’s room.

### Motor Skills

- Gross and fine motor abilities sufficient to provide safe and effective care.
  - * Manually move the x-ray tube and position the tube at various angles at heights up to 7 feet.
  - * Accurately draw up sterile contrast media and other solutions without contaminating the syringe and/or needle, etc.
  - * Place cassettes in Bucky trays and spot film devices and properly manipulate all locks.
  - * Physically be able to administer emergency care including performing CPR.
  - * Be able to stand for periods as long as 2 hours wearing lead aprons and to walk a distance of 2 miles during a normal work day.

### Hearing

- Auditory abilities sufficient to monitor and assess patient needs, and to provide a safe environment.
  - * Hear a patient talk in a normal tone from a distance of 20 feet.
  - * Hear monitor alarm, emergency signals, and cries for help.

### Visual

- Visual ability sufficient for observation and assessment necessary in the operation of equipment and care of patients.
  - * Observe the patient in order to assess the patient’s condition and/or needs from a distance of, at least, 20 feet.
  - * Can see numbers, letters, calibrations, etc. of varying sizes located on equipment utilized by a radiographer.

### Tactile

- Tactile ability sufficient for patient assessment and operation of equipment.
  - * Perform palpation, tactile assessment, and manipulation of body parts to insure proper body placement and alignment.
  - * Manipulate dials, buttons, and switches.
Radiologic and Imaging Sciences are practice disciplines with cognitive, sensory, affective, and psychomotor performance requirements. Based on these requirements the preceding list of "Core Performance Standards" has been developed. Each standard has an example of an activity, or activities, which a student will be required to perform while enrolled in the Program. These standards are a part of each course and of the role expectation of an Imaging professional.

For the purpose of the Radiologic and Imaging Sciences Program, a “qualified individual with a disability is one who, with or without reasonable accommodations or modifications, meets the essential eligibility requirements for participation in the program.” Health Sciences at Valencia makes no preadmission inquiries concerning an applicant’s disability status. Information related to an applicant’s disabilities is not a part of the information reviewed for program admission.

These Performance Standards should be used to assist students in determining whether accommodations or modifications are necessary for the student to meet program requirements. A student who identifies potential difficulties with meeting the Performance Standards should communicate his/her concerns to an advisor in the Office for Students with Disabilities. The student has the responsibility to identify and document the disability and to request reasonable and appropriate adjustments. Determination is made on an individual basis as to whether any accommodations or modifications can be reasonably made.