CARDOUPULMONARY SCIENCES

- Community Health Concentration
- Leadership Concentration
- Non-Invasive Cardiology Concentration

Bachelor of Science Degree in Cardiopulmonary Sciences

Limited Access

Division of Allied Health

The Cardiopulmonary Sciences bachelor's degree offers professionally-credentialed graduates of Respiratory Care, Cardiovascular Technology and Cardiopulmonary Technology Associate degree programs the opportunity to expand their knowledge in advanced modalities or community health. The Cardiopulmonary Sciences professions are challenging and growing professions with career opportunities in areas such as cardiopulmonary diagnostics, cardiopulmonary rehabilitation, and community health. With professional experience and additional education at the baccalaureate level, opportunities for management and education career options are enhanced.

Although not entirely, the BSCARDIO program is basically an online program.

Since the BSCARDIO is a limited access program, admission to Valencia does not imply acceptance to the program; students must submit a Health Sciences BSCARDIO Program Application and be accepted to the program.

Potential Careers

- Respiratory Care Management/Administration
- Cardiovascular Management/Administration
- Higher Education
- Community Health Educator
- Clinical Practice in Non-Invasive Cardiology

Salary and Earnings Information


Contact Information

For more information about the program or admission requirements, please contact the Health Sciences Bachelor's Program Advisor, West Campus: 407-582-1288 (Bldg. 1, Room 130) or healthscienceadvising@valenciacollege.edu (http://healthscienceadvising@valenciacollege.edu).

For the most up-to-date information, visit our website at: valenciacollege.edu/bachelordegrees (http://valenciacollege.edu/bachelordegrees).

Overview of Cardiopulmonary Sciences

For the Cardiopulmonary Sciences program, students must hold current professional certification and a related Associate in Science or Associate of Applied Science degree. Students must provide proof of current professional certification or its equivalent in one of the following: Registered Therapist (RRT) credential from the National Board for Respiratory Care (NBRC) or one of the following credentials from Cardiovascular Credentialing International (CCI): Registered Cardiovascular Invasive Specialist (RCIS), Registered Cardiac Electrophysiology Specialist (RCES), Registered Cardiovascular Sonographer (RCS), Registered Congenital Cardiac Sonographer (RCCS) or Registered Vascular Sonographer (RVS).

Students must have a minimum of 64 accepted credits and one of the following degrees from a regionally accredited institution.

- Associate Degree in Cardiovascular Technology
- Associate Degree in Cardiopulmonary Technology
- Associate Degree in Respiratory Care

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>FRESHMAN COMPOSITION I (GR)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>See Gen. Ed. Requirement</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 X081</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCB 2010C</td>
<td>MICROBIOLOGY</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours 18

Courses with different numbers that are determined to be equivalent may be substituted.

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 (http://catalog.valenciacollege.edu/degrees/associateinarts/courserequirements/#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.

- 30 credits in upper-division core courses
- 10 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
- Have an address in the State of Florida
- Review the current BSCARDIO Program Guide and Updates at http://valenciacollege.edu/west/health/admissionupdates.cfm
- Submit a completed Valencia Application for Admission using the Bachelor’s Degree & ATC application, pay the non-refundable application fee, 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 in Respiratory
Care, Cardiovascular Technology or Cardiopulmonary Technology from a regionally accredited institution and have a minimum of 64 accepted credits, including the previously-specified General Education coursework.

- 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 Cardiopulmonary Sciences limited access program with a copy of your current certification with CCI or NBRC or equivalent certification, and the application fee.

Note: Prior to enrollment in a clinical practice, 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 concentration (Non-Invasive Cardiology, or Community Health)
- Execute safe clinical decision making in the healthcare environment
- Demonstrate information literacy

Valencia B.S. General Education Requirements (18 credits)
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.

Communications 6
ENC 1102 Freshman Comp II **~
SPC 1608 FUNDAMENTALS OF SPEECH ~
or SPC 1018 Interpersonal Communication

Humanities See Gen. Ed. Institutional Requirement (GR) **~ 3
Mathematics (GR) (STA 2023 is recommended) **~ 3
Social Science See Gen. Ed. Institutional Requirement (GR) **~ 3

Total Credit Hours 18

Cardiopulmonary Core Requirements (30 credits)
RET 3287 CARDIOPULMONARY DIAGNOSTICS ** 3
RET 3536 CARDIOPULMONARY REHABILITATION ** 3
RET 3715 NEONATAL MEDICINE ** 3
RET 3354 MEDICAL PHARMACOLOGY ** 3
HSC 4555 Pathophysiologic Mechanisms ** 3
HSC 4640 HEALTH LAW AND COMPLIANCE ** 3
HSC 4652 ETHICS AND HEALTH CARE IN A PLURALISTIC SOCIETY ** 3
HSA 4184 LEADERSHIP IN HEALTHCARE ** 3
HSA 4702 RESEARCH METHODS AND INFORMATION LITERACY ** 3

Cardiopulmonary Sciences Elective 3
Total Credit Hours 30

Concentration: Community Health (10 credits)
RET 4524 COMMUNITY HEALTH * 3
HSC 4500 EPIDEMIOLOGY * 3
RET 4034 PROBLEMS IN PATIENT MANAGEMENT + 3
RET 4940 COMMUNITY HEALTH SERVICE LEARNING ** 1
Total Credit Hours 10

Concentration: Leadership (10 credits)
HSA 4110 ORGANIZATIONAL BEHAVIOR * 3
HSA 4340 PRINCIPLES OF HUMAN RESOURCES MANAGEMENT + 3
HSA 4341 CONFLICT MANAGEMENT IN HEALTH CARE + 3
HSA 4850 HEALTH CARE LEADERSHIP CAPSTONE ** 1
Total Credit Hours 10

Concentration: Non-Invasive Cardiology (10 credits)
RET 4440C CARDIAC ULTRASOUND I ** 3
RET 4942L CARDIAC ULTRASOUND CLINICAL PRACTICE I ** 2
Non-Invasive Cardiology Electives 1 5
Total Credit Hours 10

Cardiopulmonary Sciences Electives
RTE 3253 TEACHING IN THE HEALTH PROFESSION ** 3
HSA 4340 PRINCIPLES OF HUMAN RESOURCES MANAGEMENT ** 3
RTE 3205 ADMINISTRATION AND SUPERVISION ** 3

Non-Invasive Cardiology Electives
RET 4441C CARDIAC ULTRASOUND II ** 3
RET 4943L CARDIAC ULTRASOUND CLINICAL PRACTICE II ** 2
RET 4444C CARDIAC ULTRASOUND III ** 3
RET 4443 CARDIAC ULTRASOUND PHYSICS ** 2
RET 4944L CARDIAC ULTRASOUND CLINICAL PRACTICE III ** 3

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

**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 40 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.

**Notes:**
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).