HOW TO APPLY:
Applicants apply online using the Allied Health Centralized Application Service at
https://ahcas.liaisoncas.com

DEADLINE FOR APPLICATIONS:
February 1st

FINANCIAL INFORMATION:
Office of Financial Aid
504-568-4820
www.lsuhsc.edu/no/students/financialaid

THE DEPARTMENT OF CARDIOPULMONARY SCIENCE PROGRAM in ADULT ECHOCARDIOGRAPHY is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP)
25400 US Highway 19 N, Suite 158
Clearwater, FL 33763
727-210-2350
www.caahep.org/caahep

In addition to the necessary scientific background provided by classroom lectures, many hours of laboratory practice precede the students’ clinical rotations, aiding the transition to working with patients.

CARDIOVASCULAR SONOGRAPHY

DEPARTMENT OF CARDIOPULMONARY SCIENCE
1900 Gravier Street-6th Floor
New Orleans, Louisiana 70112
504-568-4227
504-599-0410 Fax
Email: cps@lsuhsc.edu
www.alliedhealth.lsuhsc.edu/cp
www.facebook.com/LSUHealthNewOrleans.CPS/
www.instagram.com/cpslsuhscno/

LSUHSC-NO is an equal opportunity/access university.
### Prerequisite Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
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<tr>
<td>Humanities*</td>
<td>9</td>
</tr>
<tr>
<td>Chemistry (General and Laboratory)</td>
<td>8</td>
</tr>
<tr>
<td>Biology (General and Laboratory)</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics (Algebra and Trigonometry)</td>
<td>6</td>
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<tr>
<td>Human Physiology**</td>
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<tr>
<td>Science Elective***</td>
<td>3</td>
</tr>
<tr>
<td>Psychology (General)</td>
<td>3</td>
</tr>
<tr>
<td>Physics (General and Laboratory)</td>
<td>4</td>
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<tr>
<td>Microbiology (General and Laboratory)</td>
<td>4</td>
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<td>Art Elective****</td>
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<td>Sociology</td>
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<td>Subtotal</td>
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*Humanities recommended: English, Technical Writing, Advanced Composition, or Foreign Language

**If Human Physiology is not offered, Human Anatomy & Physiology may be substituted

***Science Electives recommended: Human Anatomy, Organic Chemistry, or Embryology

****Art Electives recommended: Music, Art, Dance, or Theater

### Cardiopulmonary Science

The Department of Cardiopulmonary Science offers a bachelor’s degree in Cardiopulmonary Science. The Department provides professional preparation in the allied health specialties of respiratory therapy (including polysomnography) and cardiovascular sonography. The goal of the cardiovascular sonography program is to prepare competent entry-level cardiovascular technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for adult echocardiography and vascular technology.

### What Is Cardiopulmonary Science

Cardiopulmonary Science includes respiratory therapy (including polysomnography) and cardiovascular sonography. The goal of the cardiovascular sonography program is to prepare competent entry-level cardiovascular technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for adult echocardiography and vascular technology.

### What Is Cardiac Sonography?

- Cardiac sonography, also known as echocardiography, involves the use of high-frequency sound (ultrasound) to noninvasively image the beating heart.
- Two-dimensional echocardiography creates the appearance of a very thin section of cardiac tissue, including muscle, chambers, and valves. This permits the diagnosis of many cardiac abnormalities.
- Doppler echocardiography is used to identify abnormal blood flow, including across leaky heart valves and through congenital defects, as well as measure blood flow velocities, enabling the diagnosis of valve narrowing.
- Depending upon the place of employment, cardiac sonographers may be required to perform sonography, electrocardiography, Holter monitoring, and stress testing.

### What Is Vascular Technology?

- Vascular technology involves the use of ultrasound and other noninvasive techniques to diagnose disorders of the circulation.
- Two-dimensional, color flow Doppler, and spectral Doppler ultrasound are used to image blood vessels and blood flow and measure blood flow velocities.
- Vascular technologists also perform a medical history, evaluate pulses, and assess blood flow, pressure, and volume in blood vessels throughout the body.

### What Do I Need To Do To Apply To The Cardiopulmonary Science Cardiovascular Sonography Program?

- Complete not less than 60 hours, or its equivalent, of acceptable credit prior to registration.
- Satisfactorily complete (with a grade of C or better) all prerequisites, with a minimum GPA of 2.5 in the prerequisite courses.
- Submit an application.