

CARDIORESPIRATORY CARE SCIENCES

MAJOR MAP

WHO WE ARE

Upon completion, graduates will receive a Bachelor of Science degree in Cardiorespiratory Care Science, equipping them to sit for the National Board of Respiratory Care (NBRC) examination and obtain state licensure for respiratory care practice. This program trains students to specialize in diagnosing and managing cardiorespiratory diseases, including the use of life support technology like mechanical ventilators, administering treatments, and conducting diagnostic tests. Our goal is to ensure graduates demonstrate proficiency across cognitive, psychomotor, and affective learning domains.

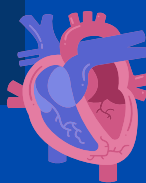
CAREER OUTCOMES:

- Respiratory Care Practitioner
- Pulmonary function technician
- Clinical researcher
- Hyperbaric clinical specialist
- Traveling respiratory therapist



AREAS OF STUDY:

- Graduates of the program obtain additional certifications in American Heart and American Academy of Pediatrics certification courses including:
 - Basic Life Support (BLS) certification
 - Advanced Life Support (ALS) certification
 - Newborn Resuscitation Program (NRP) certification
- Pediatric Advanced Life Support Certification

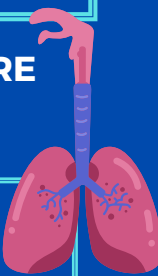


What skills will students learn throughout this program?

- Patient Assessment
- Pulmonary Function Testing (PFT) and interpretation of results
- Arterial Blood Gas (ABG) procedure and interpretation analysis of results
- Mechanical Ventilation (MV) initiation, operation, and patient management. Safety and troubleshooting of technology
- Airway management, including; intubation, extubation, and suctioning procedures
- Bronchial hygiene therapy, including secretion clearance and chest physical therapy
- Administration of nebulizer therapy, including respiratory medications
- Administration of oxygen therapy and set up of appropriate device for patient problem
- Perform basic and advanced life support
- Disease management, including Asthma and COPD

WHAT SKILLS ARE YOUR FUTURE EMPLOYERS LOOKING FOR?

- Clinical Knowledge
- Diagnostic Skills
- Health Information Management
- Medical Terminology:
- Technical Skills
- Interpersonal and Communication Skills
- Critical Thinking and Problem-Solving
- Attention to Detail
- Ethical and Legal Compliance
- Teamwork and Collaboration
- Professionalism
- Compassion and Empathy



For more information, [click here](https://www.tnstate.edu/cardio/)
<https://www.tnstate.edu/cardio/>

Undergraduate Experiential Major Map: CARDIORESPIRATORY CARE SCIENCES



First Year/Freshman

- Complete your Handshake Profile.
- Complete your four-year educational plan in UNIV 1000 during the fall semester.
- Focus on your studies and earn good grades.
- Visit the [Office of Student Success \(OSS\)](#) and connect with your advisor for help navigating college life and your classes. Make an appointment using the student planner app and view the OSS page for other hours and services.
- First Generation students connect with your [First Generational Specialist](#).
- Get to know professors. The best time to connect outside of class is during their office hours.
- Visit the [Academic Achievement and Retention Center](#) for access to study tips, connecting to academic coaches, tutoring, and other helpful resources.
- Attend the Career Fair (Sponsored by the [Career Development Center](#))
- Get involved - Attend organizational fairs, special/corporate events, and volunteer on and off campus.

Sophomore & Junior

- Update your resume and remove high school activities. Have it critiqued by the [Career Development Center](#).
- Review and update LinkedIn and Handshake profiles.
- Attend the Career Fair (Sponsored by the [Career Development Center](#))
- Explore graduate school options.
- Begin preparing for GRE, LSAT, MCAT, GMAT, and other exams for graduate school admissions.
- Begin building your professional wardrobe.
- Meet with your [departmental academic advisor](#) to confirm degree progress and discuss your future academic and career goals.
- Attend institutional and departmental internship workshops.

Senior

- Meet with your [departmental academic advisor](#) to confirm degree progress and discuss your future academic and career goals.
- Apply for [Graduate and Professional School](#) or jobs that fit your interests, skills, and career goals. Follow up on applications and keep a record of the status of each.
**pay attention to due dates*
- Draft a cover letter that can be adapted for a variety of employers. Have it critiqued.
- Complete the Senior Exit Exam and First Destination Survey. ([Testing Center](#))

Academic Success Checklist

- Book an appointment with your academic advisor for pre-registration and advising.
- Discover library resources.
- Visit the math, reading, writing, and tutoring center.
- Complete FAFSA and academic scholarship applications.

Educational Planning Checklist

- Ask your academic advisor about High Impact Practices
- Participate in at least two High Impact Practices at TSU
- Join a student group.

Career Development Checklist

- Create your HandShake Profile.
- Visit [What Can I Do With This Major](#)
- Attend the career fair to expand your network.
- Attend Academic Department workshops and seminars.
- Visit the [Academic Pathways & Partnerships](#)

Think

Engaging in critical thinking and inquiry inside the classroom.

Work

Pursue experiences that will allow you to grow as a leader and professional.

Serve

Explore opportunities to contribute to the broader community and global marketplace.