

RESPIRATORY CARE, ASSOCIATE OF APPLIED SCIENCE

Assess the cardiopulmonary system, assist in the treatment of cardiopulmonary impairment, evaluate treatment effectiveness and actively care for patients of all ages with deficiencies or abnormalities associated with the cardiopulmonary system. Opportunities exist for specialization within the profession in the areas of critical care, homecare, neonatal/pediatrics, education, pulmonary function testing and management as a licensed professional in respiratory care. The individual will, under the supervision of a physician, actively participate in the development of patient care plans, diagnostic testing and in the decision making process regarding the care and treatment of patients. Employment is primarily in hospitals but extends to home care, skilled nursing facilities, education and management. The respiratory care program, associate of applied science degree at the Western campus is accredited by the:

Commission on Accreditation for Respiratory Care
1248 Harwood Road
Bedford, Texas 76021-4244
817- 283-2835
www.coarc.com

Program contact: Learn more

Program Admission Requirements

Application may be submitted to the Health Careers Enrollment Center after meeting the following requirements:

- High School Diploma/GED
- GPA required: 2.8 admissions requirements/core courses; 2.8 overall.
- Observation visit required (see details in application packet).
- Complete the following ("C" grade or higher in each):

Code	Title	Credit Hours
BIO-2331	Anatomy and Physiology I (or BIO-2330)	4
MATH-1240	Contemporary Mathematics	3
Select one of the following:		3-8
BIO-1100	Introduction to Biological Chemistry	
CHEM-1010	Introduction to Inorganic Chemistry & CHEM-1020 and Introduction to Organic Chemistry and Biochemistry	
Select one of the following:		
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	

Other Information

- 25 students accepted per year.
- Admissions/core courses may be repeated only once to improve a grade below "C".
- Accepted applicants must attend a group information session prior to Fall Semester.

- Criminal background check required prior to admission to the program. Contact the program manager for specific dates.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Demonstrate ethical and professional behavior.
2. Assess, evaluate, interpret and prioritize clinical, therapeutic and mechanical patient data to ensure appropriate outcomes.
3. Teach, document and communicate therapy with patients, families and all medical personnel, following medical protocols.
4. Employ personal safe work methods and practice Universal Precautions in clinical and non-clinical settings.
5. Perform procedures used to diagnose and treat cardiopulmonary patients for all age groups.

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.

Suggested Semester Sequence

Program Admissions Requirements	Semester	Credit Hours
BIO-1100	Introduction to Biological Chemistry ¹	3
BIO-2331	Anatomy and Physiology I ²	4
MATH-1240	Contemporary Mathematics (or higher)	3
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
Credit Hours		13
First Semester		
RESP-1300	Respiratory Care Equipment	4
RESP-1310	Cardiopulmonary Physiology	3
Select one of the following:		3
ENG-1020	College Composition II	
ENG-102H	Honors College Composition II	
Select one of the following:		3
PSY-1010	General Psychology	
PSY-101H	Honors General Psychology	
Credit Hours		13
Second Semester		
BIO-2341	Anatomy and Physiology II	4
RESP-1320	Acid-Base and Hemodynamics	2
RESP-1330	Cardiopulmonary Assessment and Pulmonary Diseases	5
RESP-1340	Pharmacology for Respiratory Care	2
Select one of the following:		3
PHIL-2050	Bioethics	

PHIL-205H	Honors Bioethics	
	Credit Hours	16
Summer Session		
RESP-2210	Introduction to Mechanical Ventilation	1
RESP-2300	Basic Therapeutic Procedures	3
RESP-2940	Respiratory Care Field Experience I	1
	Credit Hours	5
Third Semester		
BIO-2500	Microbiology	4
RESP-2310	Mechanical Ventilation	4
RESP-2320	Pediatric/Neonatal Respiratory Care	2
RESP-2950	Respiratory Care Field Experience II	2
	Credit Hours	12
Fourth Semester		
RESP-2330	Respiratory Home Care/Rehabilitation	1
RESP-2342	Patient Management Problems	2
RESP-2960	Respiratory Care Field Experience III	2
	Credit Hours	5
	Total Credit Hours	64

¹ CHEM-1010 Introduction to Inorganic Chemistry and CHEM-1020 Introduction to Organic Chemistry and Biochemistry will be accepted in place of BIO-1100 Introduction to Biological Chemistry.

² Requires sufficient score on Biology placement test to take this course in the same semester as BIO-1100 Introduction to Biological Chemistry.