

BACHELOR OF SCIENCE IN RESPIRATORY CARE

Program Director

Dr. Kelly L. Colwell
(330) 941-2631
kcolwell@ysu.edu

Overview

Respiratory care is an allied health profession concerned with the diagnostic evaluation, treatment, management, rehabilitation, education and discharge planning of patients with cardiopulmonary disorders, and is the only healthcare professional trained and licensed to operate and manage ventilators and life support systems.

The licensed respiratory care practitioner (RCP) is proficient in:

- Air land and sea transport of critically ill patients
- Airway insertion, placement, and management procedures
- Analyzing breath, tissue, and blood specimens to determine levels of oxygen and other gases.
- Basic and advanced cardiac life support techniques
- Broncho-pulmonary hygiene
- Discharge Planning
- Educating patients and families about lung disease to maximize their quality of life.
- Therapeutic administration of medical gases and aerosolized medications
- Intermittent and continuous mechanical ventilation management
- Non-invasive patient monitoring
- Perform Pulmonary function diagnostic testing and evaluation.
- Physician consultation to recommend adjustments to pulmonary treatments.
- Pulmonary rehabilitation

A licensed RCP must also be knowledgeable regarding various assessment techniques and patient education models. These skills are used with neonatal, pediatric, and adult patients in acute, sub-acute, and home care settings. To function effectively as a member of the multidisciplinary health care team, the RCP must have a sound understanding of:

- The physiological, psychological, and cultural needs of the patient
- The role of the various therapeutic interventions in the patient care plan
- Development of broad-based skills to contribute to the overall care of the patient more effectively.

Theory and laboratory experiences are provided prior to the student's entry into the clinical education phase of the program. This program can be completed in four calendar years. It includes three summer sessions. A master of respiratory care advanced placement option is also available and a sleep diagnostics option as well. Please visit Respiratory Care (<http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-health-professions/bs-respiratory-care/>) for more information.

Accreditation

The Bachelor of Science in Respiratory Care (CoARC #200247) at Youngstown State University, Youngstown, Ohio is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (<https://www.coarc.com/>)).

Current accreditation standing: CoARC reaffirms Continuing Accreditation for a 10-year cycle through July 31, 2031. All Standards are in compliance.

Date of last campus visit: May 21, 2021

Date of next campus visit: 2031

Pass rates: RRT 98%

The goals of the Bachelor of Science in Respiratory Care are:

- To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).
- To prepare leaders for the field of respiratory care by including curricular content that includes objectives related to acquisition of skills one or more of the following: management, education, research, and advanced clinical practice (which may include an area of clinical specialization).

COURSE	TITLE	S.H.
FIRST YEAR REQUIREMENT -STUDENT SUCCESS		
YSU 1500	Success Seminar	1-2
or YSU 1500S	Youngstown State University Success Seminar	
or HONR 1500	Intro to Honors	
General Education Requirements		
ENGL 1550	Writing 1	3-4
or ENGL 1549	Writing 1 with Support	
ENGL 1551	Writing 2	3
Any Gen Ed Math (Math 2623 recommended)		3-6
Natural Science		
BIOL 1545 & 1545L	Allied Health Anatomy and Physiology and Allied Health Anatomy and Physiology Laboratory	5
Any Gen Ed Natural Science		3
Arts and Humanities (6 s.h.)		
PHIL 2625	Introduction to Professional Ethics	3
HIST 2650	CL History of American Democracy	3
Social and Behavioral Science (6 s.h.)		
SOC 1500	Introduction to Sociology	3
PSYC 1560	General Psychology	3
Gen education electives (9 s.h)		
CMST 1545	Communication Foundations	3
PHLT 1568	Healthy Lifestyles	3
PHLT 1531	Fundamentals of Public Health	3
Additional Required Courses		
BIOL 1560 & 1560L	Microbiology for the Health Professions and Microbiology Laboratory for Health Professions	3
Respiratory Care Courses		
RESC 1530	Foundations of Respiratory Care	3
RESC 3710	Respiratory Care Pharmacology	3
RESC 1503	Respiratory Procedures 1	3
RESC 1503L	Respiratory Procedures 1 Lab	1
RESC 1520	Respiratory Care Assessment 1	2
RESC 1520L	Respiratory Assessment 1 Lab	1
RESC 2620	Respiratory Assessment 2	2
RESC 2620L	Respiratory Assessment 2 Lab	1
RESC 2621	Cardiopulmonary Disease	3
RESC 3706	Respiratory Procedures 2	2
RESC 3706L	Respiratory Procedures 2 Lab	1
RESC 3720	Mechanical Ventilation 1	2
RESC 3720L	Mechanical Ventilation 1 Lab	1

HAHS 5875	Interprofessional Education for Health Professions ^{May be taken for graduate credit with approval.}	3
RESC 2699	Clinical Practice 1	1
RESC 3708	Respiratory Clinical Specialties	3
RESC 3709	Neonatal/Pediatric Respiratory Care	3
RESC 3709L	Neonatal/Pediatric Respiratory Care Lab	1
RESC 3725	Mechanical Ventilation 2	2
RESC 3725L	Mechanical Ventilation 2 Lab	1
RESC 4867	Fundamentals of Leader Development	3
RESC 3740	Clinical Practice 2	3
RESC 4870	Advanced Cardiopulmonary Case Management	3
RESC 3765	Advanced Respiratory Care Diagnostics	3
RESC 3741	Clinical Practice 3	3
RESC 4831	Pulmonary Care Management	3
AHLT 4806	Research Methods	3
RESC 4838	Respiratory Seminar 1	1
RESC 5820	The Respiratory Care Profession ^{May be taken for graduate credit with approval.}	3
AHLT 5840	Comparative Health Systems ^{May be taken for graduate credit with approval.}	3
RESC 4813	Adult Cardiac and Pediatric Advanced Life Support	3
RESC 4842	Respiratory Seminar 2	1
AHLT 4820	Directed Research	3
RESC 4835	Clinical Practice 4	3
RESC 5860	Technology Applications for Health and Human Services ^{May be taken for graduate credit with approval.}	3

To take courses noted as eligible for graduate credit, students must meet established criteria, submit a request through the department, and are limited to a maximum of 9 credit hours.

Total Semester Hours 122-127

Bachelor of Science Respiratory Care (BSRC) Curriculum

Year 1

Fall		S.H.
YSU 1500 or YSU 1500S or HONR 1500	Success Seminar or Youngstown State University Success Seminar or Intro to Honors	1-2
Any Gen Ed Math (Math 2623 recommended)		3-6
ENGL 1550 or ENGL 1549	Writing 1 or Writing 1 with Support	3-4
BIOL 1545 & 1545L	Allied Health Anatomy and Physiology and Allied Health Anatomy and Physiology Laboratory	5
Semester Hours		12-17

Spring

ENGL 1551	Writing 2	3
SOC 1500	Introduction to Sociology	3
CMST 1545	Communication Foundations	3
PHLT 1568	Healthy Lifestyles	3
Any Gen Ed Natural Science		3
Semester Hours		15

Year 2

Fall		
RESC 1530	Foundations of Respiratory Care	3
RESC 3710	Respiratory Care Pharmacology	3

BIOL 1560 & 1560L	Microbiology for the Health Professions and Microbiology Laboratory for Health Professions	3
PHIL 2625	Introduction to Professional Ethics	3

Semester Hours 12

Spring

RESC 1503	Respiratory Procedures 1	3
RESC 1503L	Respiratory Procedures 1 Lab	1
RESC 1520	Respiratory Care Assessment 1	2
RESC 1520L	Respiratory Assessment 1 Lab	1
PSYC 1560	General Psychology	3
PHLT 1531	Fundamentals of Public Health	3

Semester Hours 13

Summer

RESC 2621	Cardiopulmonary Disease	3
RESC 2620	Respiratory Assessment 2	2
RESC 2620L	Respiratory Assessment 2 Lab	1

Semester Hours 6

Year 3

Fall

RESC 3706	Respiratory Procedures 2	2
RESC 3706L	Respiratory Procedures 2 Lab	1
RESC 3720	Mechanical Ventilation 1	2
RESC 3720L	Mechanical Ventilation 1 Lab	1
HAHS 5875	Interprofessional Education for Health Professions (• can be taken for graduate credit)	3

AHLT 5840	Comparative Health Systems (• can be taken for graduate credit)	3
-----------	---	---

Semester Hours 12

Spring

RESC 2699	Clinical Practice 1	1
RESC 3708	Respiratory Clinical Specialties	3
RESC 3709	Neonatal/Pediatric Respiratory Care	3
RESC 3709L	Neonatal/Pediatric Respiratory Care Lab	1
RESC 3725	Mechanical Ventilation 2	2
RESC 3725L	Mechanical Ventilation 2 Lab	1
RESC 4867	Fundamentals of Leader Development	3

Semester Hours 14

Summer

RESC 3740	Clinical Practice 2	3
RESC 4870	Advanced Cardiopulmonary Case Management	3

Semester Hours 6

Year 4

Fall

RESC 3765	Advanced Respiratory Care Diagnostics	3
RESC 3741	Clinical Practice 3	3
RESC 4831	Pulmonary Care Management	3
AHLT 4806	Research Methods	3
RESC 4838	Respiratory Seminar 1	1
RESC 4813	Adult Cardiac and Pediatric Advanced Life Support	3

Semester Hours 16

Spring

RESC 4842	Respiratory Seminar 2	1
RESC 4835	Clinical Practice 4	3
RESC 5820	The Respiratory Care Profession	3
RESC 5860	Technology Applications for Health and Human Services (*can be taken for graduate credit)	3
AHLT 4820	Directed Research	3
HIST 2650	CL History of American Democracy	3
Semester Hours		16
Total Semester Hours		122-127

Learning Outcomes

The student learning outcomes for the major in Respiratory Care are as follows:

- Upon completion of the program, graduates will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their roles as advanced-level respiratory therapists (cognitive domain).
- Upon completion of the program, graduates will demonstrate technical proficiency in all the skills necessary to fulfill their role as advanced level respiratory therapists (psychomotor domain).
- Upon completion of the program, graduates will demonstrate professional behavior consistent with employer expectations as advanced-level respiratory therapists (affective domain).
- Upon completion of the program graduates will be cognizant of cultural differences within diverse patient populations and have an awareness of how those differences may affect the delivery of healthcare and outcomes...