

BACHELOR OF SCIENCE IN RESPIRATORY CARE IN RESPIRATORY CARE

Respiratory Care Program Director:

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Respiratory care is an allied health profession concerned with the diagnostic evaluation, treatment, and management of patients with cardiopulmonary disorders. The respiratory care practitioner (RCP) is proficient in:

- therapeutic administration of medical gases and aerosols
- intermittent and continuous mechanical ventilation
- broncho-pulmonary hygiene
- basic and advanced cardiac life support techniques
- non-invasive patient monitoring
- pulmonary function evaluation
- arterial blood gas analysis
- airway management procedures
- pulmonary rehabilitation techniques

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 more effectively contribute to the overall care of the patient

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 sleep diagnostics option is also available. 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) and Polysomnography Certificate (CoARC #400247) at Youngstown State University, Youngstown, Ohio are accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (<https://www.coarc.com>)). To view CoARC Program outcomes please visit CoARC Outcomes Data (<https://www.coarc.com/Students/Programmatic-Outcome-Data.aspx>).

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).

The goal of the Polysomnography Certificate is:

- To prepare sleep disorder specialists with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of polysomnography practice as performed by sleep disorder specialists (SDS).

COURSE	TITLE	S.H.
Pre-Respiratory Courses		
BIOL 1545	Allied Health Anatomy and Physiology	5
BIOL 1545L	Allied Health Anatomy and Physiology Laboratory (BIOL 1545/1545L satisfies a NS GER Knowledge Domain)	0
CHEM 1510	Chemistry for Allied Health Sciences	4
CHEM 1510L	Chemistry for the Allied Health Sciences Laboratory (CHEM 1510/1510L satisfies a NS GER Knowledge Domain)	0
MATC 1501	Medical Terminology	3
MATH 2623	Quantitative Reasoning (MATH 2623 satisfies the MATH GER for University Basic Skills)	3
University Basic Skills		
ENGL 1550	Writing 1	3
ENGL 1551	Writing 2	3
HAHS 1500	Introduction to the Bitonte College of Health and Human Services	2
CMST 1545	Communication Foundations	3
GER Knowledge Domains		
BIOL 1560	Microbiology for the Health Professions	2
BIOL 1560L	Microbiology Laboratory for Health Professions	1
SOC 1500	Introduction to Sociology	3
PSYC 1560	General Psychology	3
PHIL 2625	Introduction to Professional Ethics	3
SPA Domain		3
AH Domain		3
PHLT 1568	Healthy Lifestyles	3
or PHLT 1531	Fundamentals of Public Health	
Respiratory Care Courses		
RESC 1529	Respiratory Care Orientation	2
RESC 1531	Respiratory Care Essentials	3
MATC 2605	Introduction to Pharmacology	3
RESC 1503	Respiratory Procedures 1	4
RESC 1520	Respiratory Care Assessment 1	3
PHYS 1506	Physics for Health Care	3
AHLT 3705	Pharmacotherapeutics	3
RESC 2620	Respiratory Assessment 2	3
RESC 2621	Cardiopulmonary Disease	4
RESC 3706	Respiratory Procedures 2	3
RESC 3720	Mechanical Ventilation 1	3
AHLT 4806	Research Methods	3
AHLT 5840	Comparative Health Systems	3
RESC 2699	Clinical Practice 1	1
RESC 3708	Respiratory Clinical Specialties	3
RESC 3709	Neonatal/Pediatric Respiratory Care	4
RESC 3725	Mechanical Ventilation 2	3
RESC 3731	Respiratory Care Management	3
RESC 3740	Clinical Practice 2	4
RESC 3750	Pulmonary Rehabilitation	2
RESC 3765	Advanced Respiratory Care Diagnostics	3
RESC 3741	Clinical Practice 3	3

RESC 4831	Pulmonary Care Management	3
AHLT 4812	Advanced Cardiac Life Support	3
RESC 4838	Respiratory Seminar 1	1
RESC 4835	Clinical Practice 4	3
RESC 4842	Respiratory Seminar 2	1
AHLT 4820	Directed Research	3
Sleep Diagnostic Option		
RESC 4846	Sleep Diagnostics 1	3
RESC 4847	Sleep Clinics 1	1
RESC 4848	Sleep Diagnostics 2	3
RESC 4849	Sleep Clinics 2	1

Bachelor of Science Respiratory Care (BSRC) Curriculum

Year 1

Fall		S.H.
BIOL 1545	Allied Health Anatomy and Physiology	5
MATC 1501	Medical Terminology	3
MATH 2623	Quantitative Reasoning	3
ENGL 1550	Writing 1	3
Semester Hours		14

Spring

CMST 1545	Communication Foundations	3
CHEM 1510	Chemistry for Allied Health Sciences	4
CHEM 1510L	Chemistry for the Allied Health Sciences Laboratory	0
ENGL 1551	Writing 2	3
SOC 1500	Introduction to Sociology	3
PHLT 1568 or PHLT 1531	Healthy Lifestyles or Fundamentals of Public Health	3
HAHS 1500	Introduction to the Bitonte College of Health and Human Services	2
Semester Hours		18

Year 2

Fall		S.H.
RESC 1529	Respiratory Care Orientation	2
RESC 1531	Respiratory Care Essentials	3
MATC 2605	Introduction to Pharmacology	3
BIOL 1560	Microbiology for the Health Professions	2
MLT 2687L	Microbiology for Health Care Laboratory	1
PHIL 2625	Introduction to Professional Ethics	3
Semester Hours		14

Spring

RESC 1503	Respiratory Procedures 1	4
RESC 1520	Respiratory Care Assessment 1	3
PSYC 1560	General Psychology	3
AHLT 3705	Pharmacotherapeutics	3
Semester Hours		13

Summer

RESC 2620	Respiratory Assessment 2	3
RESC 2621	Cardiopulmonary Disease	4
Semester Hours		7

Year 3

Fall		S.H.
RESC 3706	Respiratory Procedures 2	3
RESC 3720	Mechanical Ventilation 1	3

AHLT 4806	Research Methods	3
AHLT 5840	Comparative Health Systems	3
Semester Hours		12

Spring

RESC 2699	Clinical Practice 1	1
RESC 3708	Respiratory Clinical Specialties	3
RESC 3709	Neonatal/Pediatric Respiratory Care	4
RESC 3725	Mechanical Ventilation 2	3
RESC 3731	Respiratory Care Management	3
Semester Hours		14

Summer

RESC 3740	Clinical Practice 2	4
RESC 3750	Pulmonary Rehabilitation	2
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
RESC 4838	Respiratory Seminar 1	1
AHLT 4813	Adult Cardiac and Pediatric Advanced Life Support	3
RESC 4846	Sleep Diagnostics 1 ((Optional)) ¹	3
RESC 4847	Sleep Clinics 1 ((Optional)) ¹	1
Semester Hours		17

Spring

RESC 4835	Clinical Practice 4	3
RESC 4842	Respiratory Seminar 2	1
AHLT 4820	Directed Research	3
Arts & Humanities Elective		3
Social & Personal Awareness Elective		3
RESC 4848	Sleep Diagnostics 2 ((Optional)) ¹	3
RESC 4849	Sleep Clinics 2 ((Optional)) ¹	1
Semester Hours		17

Total Semester Hours 132

¹ Sleep Diagnostics Option: The Sleep Diagnostics option is a restricted program. Current BSRC senior students are given preference to enroll in the certificate program. BSRC program GPA is the primary criteria used to select students for the Polysomnography Certificate. BSRC students who enroll in the Sleep Diagnostics option will complete 134 sh. Students who do not take the Sleep Diagnostics option will complete a total of 126 sh.

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).

The student learning outcomes for the Sleep Diagnostic Option 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 sleep disorder specialists (cognitive domain).
- Upon completion of the program, graduates will demonstrate technical proficiency in all the skills necessary to fulfill their role as sleep disorder specialists (psychomotor domain).
- Upon completion of the program, graduates will demonstrate professional behavior consistent with employer expectations as sleep disorder specialists (affective domain).