

BACHELOR OF SCIENCE IN RESPIRATORY CARE IN RESPIRATORY CARE

Program Director

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Overview

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) at Youngstown State University, Youngstown, Ohio is 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).

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.
FIRST YEAR REQUIREMENT -STUDENT SUCCESS		
YSU 1500	Success Seminar	1-2
or SS 1500	Strong Start 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
CMST 1545	Communication Foundations	3
Mathematics requirement (met with MATH 2623)		
Arts and Humanities (6 s.h.)		
PHIL 2625	Introduction to Professional Ethics (required for major)	3
One additional Arts and Humanities course		
Natural Sciences (2 courses; 1 with lab) (7 s.h.) <small>Met with BIOL 1545/1545L and CHEM 1510/1510L</small>		
Social Science (6 s.h.)		
SOC 1500	Introduction to Sociology (required for major)	3
PSYC 1560	General Psychology (required for major)	3
Social and Personal Awareness (6 s.h.)		
PHLT 1568	Healthy Lifestyles	3
or PHLT 1531	Fundamentals of Public Health	
One additional S&PA course		
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
BIOL 1560	Microbiology for the Health Professions (required for major)	2
BIOL 1560L	Microbiology Laboratory for Health Professions (required for major)	1
CHEM 1510	Chemistry for the Allied Health Sciences	4
CHEM 1510L	Chemistry for the Allied Health Sciences Laboratory (CHEM 1510/1510L satisfies a NS GER Knowledge Domain)	0
MATH 2623	Quantitative Reasoning (MATH 2623 satisfies the MATH GER for University Basic Skills)	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 2620L	Respiratory Assessment 2 Lab	1
RESC 2620	Respiratory Assessment 2	2
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	3
AHLT 5840	Comparative Health Systems	3
RESC 2699	Clinical Practice 1	1
RESC 3708	Respiratory Clinical Specialties	3
RESC 3708L	Respiratory Clinical Specialties Lab	1
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 Case Management	3
AHLT 4806	Research Methods	3
AHLT 4813	Adult Cardiac and Pediatric Advanced Life Support	3
RESC 4838	Respiratory Seminar 1	1
RESC 5820	The Respiratory Care Profession	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	3
Total Semester Hours		124-126

Bachelor of Science Respiratory Care (BSRC) Curriculum

Year 1

Fall		S.H.
YSU 1500 or SS 1500	Success Seminar or Strong Start Success Seminar	1-2
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
MATH 2623	Quantitative Reasoning	3
CMST 1545	Communication Foundations	3
Semester Hours		15-17

Spring

ENGL 1551	Writing 2	3
CHEM 1510	Chemistry for the Allied Health Sciences	4
CHEM 1510L	Chemistry for the Allied Health Sciences Laboratory	0
SOC 1500	Introduction to Sociology	3
PHLT 1568 or PHLT 1531	Healthy Lifestyles or Fundamentals of Public Health	3
Semester Hours		13

Year 2

Fall		
RESC 1530	Foundations of Respiratory Care	3
BIOL 1560 & 1560L	Microbiology for the Health Professions and Microbiology Laboratory for Health Professions	3
PHIL 2625	Introduction to Professional Ethics	3

RESC 3710	Respiratory Care Pharmacology	3
Semester Hours		12

Spring

RESC 1503 & 1503L	Respiratory Procedures 1 and Respiratory Procedures 1 Lab	4
RESC 1520 & 1520L	Respiratory Care Assessment 1 and Respiratory Assessment 1 Lab	3
PSYC 1560	General Psychology	3
Elective (SPA Gen Ed)		3

Semester Hours		13
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Summer

RESC 2620 & 2620L	Respiratory Assessment 2 and Respiratory Assessment 2 Lab	3
RESC 2621	Cardiopulmonary Disease	3

Semester Hours		6
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Year 3

Fall

RESC 3706	Respiratory Procedures 2	3
RESC 3720	Mechanical Ventilation 1	3
HAHS 5875	Interprofessional Education for Health Professions	3
AHLT 5840	Comparative Health Systems	3

Semester Hours		12
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Spring

RESC 2699	Clinical Practice 1	1
RESC 3708	Respiratory Clinical Specialties	3
RESC 3709	Neonatal/Pediatric Respiratory Care	3
RESC 3725	Mechanical Ventilation 2	2
RESC 3731 or RESC 4867	Respiratory Care Management or Fundamentals of Leader Development	3

Semester Hours		12
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Summer

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

Semester Hours		6
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Year 4

Fall

RESC 3765	Advanced Respiratory Care Diagnostics	3
RESC 3741	Clinical Practice 3	3
RESC 4831	Pulmonary Case Management	3
AHLT 4813	Adult Cardiac and Pediatric Advanced Life Support	3
AHLT 4806	Research Methods	3
RESC 4838	Respiratory Seminar 1	1
RESC 5820	The Respiratory Care Profession	3

Semester Hours		19
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Spring

RESC 4842	Respiratory Seminar 2	1
AHLT 4820	Directed Research	3
Arts and Humanities Gen Ed Elective		3
RESC 4835	Clinical Practice 4	3
RESC 5860	Technology Applications for Health and Human Services	3

Semester Hours		13
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Total Semester Hours		121-123
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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).