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/)).

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).

Polysonomography 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
---|---
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500  or SS 1500  or HONR 1500 | Success Seminar  Strong Start Success Seminar  Intro to Honors
General Education Requirements
ENGL 1550  or ENGL 1549 | Writing 1  Writing 1 with Support
ENGL 1551 | Writing 2
CMST 1545 | Communication Foundations
Mathematics requirement (met with MATH 2623)
Arts and Humanities (6 s.h.)
PHIL 2625 | Introduction to Professional Ethics (required for major)
One additional Arts and Humanities course (3 s.h.)
Social Science (6 s.h.)
SOC 1500 | Introduction to Sociology (required for major)
PSYC 1560 | General Psychology (required for major)
Social and Personal Awareness (6 s.h.)
PHLT 1568  or PHLT 1531 | Healthy Lifestyles  Fundamentals of Public Health
One additional S&PA course
Pre-Respiratory Courses
BIOL 1545 | Allied Health Anatomy and Physiology
BIOL 1545L | Allied Health Anatomy and Physiology Laboratory (BIOL 1545/1545L satisfies a NS GER Knowledge Domain)
BIOL 1560 | Microbiology for the Health Professions (required for major)
BIOL 1560L | Microbiology Laboratory for Health Professions (required for major)
CHEM 1510 | Chemistry for the Allied Health Sciences
CHEM 1510L | Chemistry for the Allied Health Sciences Laboratory (CHEM 1510/1510L satisfies a NS GER Knowledge Domain)
MATH 2623 | Quantitative Reasoning (MATH 2623 satisfies the MATH GER for University Basic Skills)
Respiratory Care Courses
RESC 1530 | Foundations of Respiratory Care
RESC 3710 | Respiratory Care Pharmacology
RESC 1503 | Respiratory Procedures 1
RESC 1503L | Respiratory Procedures 1 Lab
RESC 1520 | Respiratory Care Assessment 1
RESC 1520L | Respiratory Assessment 1 Lab
RESC 2620 | Respiratory Assessment 2
## Bachelor of Science Respiratory Care (BSRC) Curriculum

### Year 1

#### Fall
- **YSU 1500**  
  Success Seminar  
  or SS 1500  
  or Strong Start Success Seminar  
  1-2 S.H.
- **ENGL 1550**  
  Writing 1  
  or ENGL 1549  
  3-4 S.H.
- **BIOL 1545**  
  Allied Health Anatomy and Physiology  
  5 S.H.
- **MATH 2623**  
  Quantitative Reasoning  
  3 S.H.
- **CMST 1545**  
  Communication Foundations  
  3 S.H.

**Total Semester Hours**: 15-17

#### Spring
- **ENGL 1551**  
  Writing 2  
  3 S.H.
- **CHEM 1510**  
  Chemistry for the Allied Health Sciences  
  4 S.H.
- **CHEM 1510L**  
  Chemistry for the Allied Health Sciences Laboratory  
  0 S.H.
- **SOC 1500**  
  Introduction to Sociology  
  3 S.H.
- **PHLT 1568**  
  Healthy Lifestyles  
  or PHLT 1531  
  or Fundamentals of Public Health  
  3 S.H.

**Total Semester Hours**: 3

### Year 2

#### Fall
- **RESC 2620L**  
  Respiratory Assessment 2 Lab  
  1 S.H.
- **RESC 2621**  
  Cardiopulmonary Disease  
  3 S.H.
- **RESC 3706**  
  Respiratory Procedures 2  
  2 S.H.
- **RESC 3706L**  
  Respiratory Procedures 2 Lab  
  1 S.H.
- **RESC 3720**  
  Mechanical Ventilation 1  
  2 S.H.
- **RESC 3720L**  
  Mechanical Ventilation 1 Lab  
  1 S.H.
- **HAHT 5875**  
  Interprofessional Education for Health Professions  
  (can be taken for graduate credit)  
  3 S.H.
- **AHLT 5840**  
  Comparative Health Systems  
  (can be taken for graduate credit)  
  3 S.H.
- **RESC 2699**  
  Clinical Practice 1  
  1 S.H.
- **RESC 3708**  
  Respiratory Clinical Specialties  
  3 S.H.
- **RESC 3709**  
  Neonatal/Pediatric Respiratory Care  
  3 S.H.
- **RESC 3709L**  
  Neonatal/Pediatric Respiratory Care Lab  
  1 S.H.
- **RESC 3725**  
  Mechanical Ventilation 2  
  2 S.H.
- **RESC 3725L**  
  Mechanical Ventilation 2 Lab  
  1 S.H.
- **RESC 4831**  
  Fundamentals of Leader Development  
  3 S.H.
- **RESC 3740**  
  Clinical Practice 2  
  3 S.H.
- **RESC 4870**  
  Advanced Cardiopulmonary Case Management  
  3 S.H.
- **RESC 3765**  
  Advanced Respiratory Care Diagnostics  
  3 S.H.
- **RESC 3741**  
  Clinical Practice 3  
  3 S.H.
- **RESC 4831**  
  Pulmonary Care Management  
  3 S.H.
- **AHLT 4806**  
  Research Methods  
  3 S.H.
- **AHLT 4813**  
  Adult Cardiac and Pediatric Advanced Life Support  
  3 S.H.
- **RESC 4838**  
  Respiratory Seminar 1  
  1 S.H.
- **RESC 5820**  
  The Respiratory Care Profession  
  (can be taken for graduate credit)  
  3 S.H.
- **RESC 4842**  
  Respiratory Seminar 2  
  1 S.H.
- **AHLT 4820**  
  Directed Research  
  3 S.H.
- **RESC 4835**  
  Clinical Practice 4  
  3 S.H.
- **RESC 5860**  
  Technology Applications for Health and Human Services  
  (can be taken for graduate credit)  
  3 S.H.

**Total Semester Hours**: 123-125

#### Spring
- **PSYC 1560**  
  General Psychology  
  3 S.H.
- **Elective (SPA Gen Ed)**  
  3 S.H.
- **RESC 1520**  
  Respiratory Care Assessment 1  
  2 S.H.
- **RESC 1520L**  
  Respiratory Care Assessment 1 Lab  
  1 S.H.
- **RESC 1503**  
  Respiratory Procedures 1  
  3 S.H.
- **RESC 1503L**  
  Respiratory Procedures 1 Lab  
  1 S.H.

**Total Semester Hours**: 13

#### Summer
- **RESC 2621**  
  Cardiopulmonary Disease  
  3 S.H.
- **RESC 2620**  
  Respiratory Assessment 2  
  2 S.H.
- **RESC 2620L**  
  Respiratory Assessment 2 Lab  
  1 S.H.

**Total Semester Hours**: 6

### Year 3

#### Fall
- **RESC 3706**  
  Respiratory Procedures 2  
  2 S.H.
- **RESC 3706L**  
  Respiratory Procedures 2 Lab  
  1 S.H.
- **RESC 3720**  
  Mechanical Ventilation 1  
  2 S.H.
- **RESC 3720L**  
  Mechanical Ventilation 1 Lab  
  1 S.H.
- **HAHT 5875**  
  Interprofessional Education for Health Professions  
  (can be taken for graduate credit)  
  3 S.H.
- **AHLT 5840**  
  Comparative Health Systems  
  (can be taken for graduate credit)  
  3 S.H.
- **RESC 2699**  
  Clinical Practice 1  
  1 S.H.
- **RESC 3708**  
  Respiratory Clinical Specialties  
  3 S.H.
- **RESC 3709**  
  Neonatal/Pediatric Respiratory Care  
  3 S.H.
- **RESC 3709L**  
  Neonatal/Pediatric Respiratory Care Lab  
  1 S.H.
- **RESC 3725**  
  Mechanical Ventilation 2  
  2 S.H.
- **RESC 3725L**  
  Mechanical Ventilation 2 Lab  
  1 S.H.
- **RESC 4831**  
  Fundamentals of Leader Development  
  3 S.H.
- **RESC 3740**  
  Clinical Practice 2  
  3 S.H.
- **RESC 4870**  
  Advanced Cardiopulmonary Case Management  
  3 S.H.
- **RESC 3765**  
  Advanced Respiratory Care Diagnostics  
  3 S.H.
- **RESC 3741**  
  Clinical Practice 3  
  3 S.H.
- **RESC 4831**  
  Pulmonary Care Management  
  3 S.H.
- **AHLT 4806**  
  Research Methods  
  3 S.H.
- **AHLT 4813**  
  Adult Cardiac and Pediatric Advanced Life Support  
  3 S.H.
- **RESC 4838**  
  Respiratory Seminar 1  
  1 S.H.
- **RESC 5820**  
  The Respiratory Care Profession  
  (can be taken for graduate credit)  
  3 S.H.
- **RESC 4842**  
  Respiratory Seminar 2  
  1 S.H.
- **AHLT 4820**  
  Directed Research  
  3 S.H.
- **RESC 4835**  
  Clinical Practice 4  
  3 S.H.
- **RESC 5860**  
  Technology Applications for Health and Human Services  
  (can be taken for graduate credit)  
  3 S.H.

**Total Semester Hours**: 13

#### Spring
- **PSYC 1560**  
  General Psychology  
  3 S.H.
- **Elective (SPA Gen Ed)**  
  3 S.H.
- **RESC 1520**  
  Respiratory Care Assessment 1  
  2 S.H.
- **RESC 1520L**  
  Respiratory Care Assessment 1 Lab  
  1 S.H.
- **RESC 1503**  
  Respiratory Procedures 1  
  3 S.H.
- **RESC 1503L**  
  Respiratory Procedures 1 Lab  
  1 S.H.

**Total Semester Hours**: 13

#### Summer
- **RESC 2621**  
  Cardiopulmonary Disease  
  3 S.H.
- **RESC 2620**  
  Respiratory Assessment 2  
  2 S.H.
- **RESC 2620L**  
  Respiratory Assessment 2 Lab  
  1 S.H.

**Total Semester Hours**: 6

### Year 4

#### Fall
- **RESC 3765**  
  Advanced Respiratory Care Diagnostics  
  3 S.H.
- **RESC 3741**  
  Clinical Practice 3  
  3 S.H.
- **RESC 4831**  
  Pulmonary Care Management  
  3 S.H.

**Total Semester Hours**: 13
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).