BACHELOR OF SCIENCE IN RESPIRATORY CARE IN RESPIRATORY CARE

Program Director
Dr. Kelly L. Colwell
(330) 941-2631
klcolwell@ysu.edu

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).

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).

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</table>
| FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500     | Success Seminar                                           | 1-2  |
YSU 1500     | Success Seminar                                           | 1-2  |
SS 1500      | Intro to Honors                                           | 3-4  |
HONR 1500    | Intro to Honors                                           | 3-5  |

General Education Requirements

<table>
<thead>
<tr>
<th>ENGL 1550</th>
<th>Writing 1 with Support</th>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
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<td>Mathematics requirement (met with MATH 2623)</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
<td>3</td>
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<tr>
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<td>One additional Arts and Humanities course (3 s.h.)</td>
<td>3</td>
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<tr>
<td></td>
<td>Natural Sciences (2 courses; 1 with lab) (7 s.h.) Met with BIOL 1545/1545L and CHEM 1510/1510L</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<td>SOC 1500</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology (required for major)</td>
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<tr>
<td></td>
<td>Social and Personal Awareness (6 s.h.)</td>
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<tr>
<td>PHLT 1568</td>
<td>Healthy Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>or PHLT 1531</td>
<td>Fundamentals of Public Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One additional S&amp;PA course</td>
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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

<p>| 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    |</p>
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<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tr>
<td>Year 1</td>
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<tr>
<td>Fall</td>
<td>RESC 2620L Respiratory Assessment 2 Lab 1</td>
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<tr>
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<td>RESC 2621 Cardiopulmonary Disease 3</td>
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<td>RESC 3706 Respiratory Procedures 2 2</td>
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<td>HAHLT 5875 Interprofessional Education for Health Professions (* can be taken for graduate credit) 3</td>
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<td>RESC 2699 Clinical Practice 1 1</td>
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<td>RESC 3708 Respiratory Clinical Specialties 3</td>
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<td>RESC 3709 Neonatal/Pediatric Respiratory Care 3</td>
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<td>RESC 4867 Fundamentals of Leader Development 3</td>
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<td>RESC 3765 Advanced Respiratory Care Diagnostics 3</td>
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<td>RESC 3741 Clinical Practice 3 3</td>
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<td>AHLT 4806 Research Methods 3</td>
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<td>AHLT 4813 Adult Cardiac and Pediatric Advanced Life Support 3</td>
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<td>RESC 4838 Respiratory Seminar 1 1</td>
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<td>RESC 5820 The Respiratory Care Profession (* can be taken for graduate credit) 3</td>
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<td>AHLT 4820 Directed Research 3</td>
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<td>RESC 4835 Clinical Practice 4 3</td>
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<td>RESC 5860 Technology Applications for Health and Human Services (* can be taken for graduate credit) 3</td>
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<td>Total Semester Hours</td>
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**Bachelor of Science Respiratory Care (BSRC) Curriculum**

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<thead>
<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>Fall</td>
<td>RESC 1530 Foundations of Respiratory Care 3</td>
</tr>
<tr>
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<td>PHIL 2625 Introduction to Professional Ethics 3</td>
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<td>BIOL 1560 Microbiology for the Health Professions 2</td>
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<tr>
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<tbody>
<tr>
<td>Fall</td>
<td>RESC 3765 Advanced Respiratory Care Diagnostics 3</td>
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Bachelor of Science in Respiratory Care in Respiratory Care

<table>
<thead>
<tr>
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<td>AHLT 4806</td>
<td>Research Methods</td>
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<td>RESC 4838</td>
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<td>RESC 5820</td>
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**Spring**

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<td>Arts and Humanities Gen Ed Elective</td>
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<td>RESC 5860</td>
<td>Technology Applications for Health and Human Services (can be taken for graduate credit)</td>
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<td><strong>Semester Hours</strong></td>
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<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
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**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).