Bachelor of Science in Respiratory Care with Advanced Placement Option to Master of 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.

The advanced placement option allows the undergraduate BSRC student to take up to 9 semester hours of graduate credit that can be applied to the Master of Respiratory Care program. Upon completion of the BSRC, the student must apply to and be accepted into the Graduate School and the Master of Respiratory Care Program in order to apply the graduate credits earned during the BSRC program. To be accepted into the BSRC Advanced Placement option, the student must meet the following criteria:

1. Junior standing with an overall GPA of a minimum of 3.2; or,
2. Junior standing in BSRC Completion Program and have completed 15 semester hours of required core upper division courses and have an overall minimum GPA of 3.2

Once accepted into the BSRC Advanced Placement Option, the student must maintain a GPA of 3.0 to continue to take graduate level courses.

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). 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 Goal:

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>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1545 &amp; 1545L</td>
<td>Allied Health Anatomy and Physiology Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1510</td>
<td>Chemistry for the Allied Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1510L</td>
<td>Chemistry for the Allied Health Sciences Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>MATC 1501</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
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</tbody>
</table>

General Education Requirements

Core Competencies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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Mathematics requirement (met with MATH 2623)

Knowledge Domains

Arts and Humanities (6 s.h.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>One additional Arts and Humanities course</td>
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<td>3</td>
</tr>
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</table>

Natural Science (2 course; 1 with lab) (6-7 s.h.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>BIOL 1560</td>
<td>Microbiology for the Health Professions (required for major)</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 1560L</td>
<td>Microbiology Laboratory for Health Professions (required for major)</td>
<td>1</td>
</tr>
<tr>
<td>One additional Natural Science course (can be met with BIOL 1545/1545L or CHEM 1510/1510L)</td>
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</tbody>
</table>

Social Science (6 s.h.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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</tr>
<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></td>
</tr>
<tr>
<td>One additional S&amp;PA course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
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# Bachelor of Science Respiratory Care (BSRC) Curriculum

## Year 1

### Fall
- **BIOL 1545** Allied Health Anatomy and Physiology 5
- **MATC 1501** Medical Terminology 3
- **MATH 2623** Quantitative Reasoning 3
- **ENGL 1550** Writing 1 3
- **HAHS 1500** Introduction to the Bitonte College of Health and Human Services 2

**Semester Hours**: 16-17

### Spring
- **CMST 1545** Communication Foundations 3
- **CHEM 1510** Chemistry for the 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

**Semester Hours**: 14

## Year 2

### Fall
- **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 the Health Care Laboratory 1

**Semester Hours**: 16

### Spring
- **RESC 1503** Respiratory Care 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
- **RESC 3706** Advanced Respiratory Care Diagnostics 3
- **RESC 3712** Pulmonary Rehabilitation 2
- **RESC 3725** Advanced Respiratory Care Management 3
- **RESC 3731** Respiratory Clinical Specialties 3

**Semester Hours**: 12

### Spring
- **RESC 3708** Respiratory Care Assessment 2 3
- **RESC 4838** Respiratory Seminar 1 1
- **RESC 4835** Clinical Practice 4 3
- **RESC 4842** Respiratory Seminar 2 1

**Semester Hours**: 13

### Summer
- **RESC 2699** The Respiratory Care Profession 3
- **RESC 6920** Technology Applications for Health and Human Services 3

**Semester Hours**: 14

## Year 4

### Fall
- **RESC 3706** Advanced Respiratory Care Diagnostics 3
- **RESC 3712** Pulmonary Rehabilitation 2

**Semester Hours**: 6

### Spring
- **RESC 3768** Advanced Respiratory Care Management 3
- **RESC 4831** Pulmonary Care Management 3
- **RESC 4838** Respiratory Seminar 1 1
- **AHLT 4806** Directed Research 3

**Semester Hours**: 16

### Semester Hours**: 16

## Notes
- *AHLT 5840 Comparative Health Systems must be taken for graduate credit*
Social & Personal Awareness Elective 3
RES 6900 The Respiratory Care Profession 3
RES 6920 Technology Applications for Health and Human Services 3

Semester Hours 16
Total Semester Hours 130-131

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).