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).

Polysonmography 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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<tbody>
<tr>
<td>BIOL 1545</td>
<td>Allied Health Anatomy and Physiology</td>
<td>5</td>
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<tr>
<td>BIOL 1545L</td>
<td>Allied Health Anatomy and Physiology Laboratory</td>
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<tr>
<td>CHEM 1510</td>
<td>Chemistry for the Allied Health Sciences</td>
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<td>CHEM 1510L</td>
<td>Chemistry for the Allied Health Sciences Laboratory (CHEM 1510/1510L satisfies a NS GER Knowledge Domain)</td>
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<tr>
<td>MATC 1501</td>
<td>Medical Terminology</td>
<td>3</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning (MATH 2623 satisfies the MATH GER for University Basic Skills)</td>
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FIRST YEAR REQUIREMENT - STUDENT SUCCESS

<table>
<thead>
<tr>
<th>YSU 1500</th>
<th>Success Seminar</th>
<th>1-2</th>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

<table>
<thead>
<tr>
<th>ENGL 1550</th>
<th>Writing 1</th>
<th>3-4</th>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics requirement (met with MATH 2623)</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>
<td>One additional Arts and Humanities course</td>
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<tr>
<td>BIOL 1560</td>
<td>Microbiology for the Health Professions (required for major)</td>
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<tr>
<td>BIOL 1560L</td>
<td>Microbiology Laboratory for Health Professions (required for major)</td>
<td>1</td>
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<td>One additional Natural Science course (can be met with BIOL 1545/1545L or CHEM 1510/1510L)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology (required for major)</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology (required for major)</td>
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<td>One additional S&amp;P course</td>
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Social and Personal Awareness (6 s.h.)

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<thead>
<tr>
<th>PHLT 1568</th>
<th>Healthy Lifestyles</th>
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<tbody>
<tr>
<td>or PHLT 1531</td>
<td>Fundamentals of Public Health</td>
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Respiratory Care Courses

<table>
<thead>
<tr>
<th>RESC 1529</th>
<th>Respiratory Care Orientation</th>
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<tbody>
<tr>
<td>RESC 1531</td>
<td>Respiratory Care Essentials</td>
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<tr>
<td>MATC 2605</td>
<td>Introduction to Pharmacology</td>
<td>3</td>
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<tr>
<td>RESC 1503</td>
<td>Respiratory Procedures 1</td>
<td>3</td>
</tr>
<tr>
<td>RESC 1520</td>
<td>Respiratory Care Assessment 1</td>
<td>2</td>
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<tr>
<td>PHYS 1506</td>
<td>Physics for Health Care</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 3705</td>
<td>Pharmacotherapeutics</td>
<td>3</td>
</tr>
<tr>
<td>RESC 2620</td>
<td>Respiratory Assessment 2</td>
<td>2</td>
</tr>
<tr>
<td>RESC 2621</td>
<td>Cardiopulmonary Disease</td>
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</tr>
<tr>
<td>RESC 3706</td>
<td>Respiratory Procedures 2</td>
<td>2</td>
</tr>
<tr>
<td>RESC 3720</td>
<td>Mechanical Ventilation</td>
<td>2</td>
</tr>
<tr>
<td>AHLT 4806</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 5840</td>
<td>Comparative Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>RESC 2699</td>
<td>Clinical Practice 1</td>
<td>1</td>
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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  3-4  
 or ENGL 1549 or Writing 1 with Support

Semester Hours  14-15

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  
PHLT 1568 or PHLT 1531  Healthy Lifestyles or Fundamentals of Public Health  3  
HAHS 1500  Strong Start FYE  2  

Semester Hours  18

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 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

Year 3

Fall

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

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  3  
RESC 4846  Sleep Diagnostics 1 (Optional)  1  
RESC 4847  Sleep Clinics 1 (Optional)  1  

Semester Hours  17

Spring

RESC 4835  Clinical Practice 4  3  
RESC 4842  Respiratory Seminar 2  1  
AHLT 4820  Directed Research  3  
Social & Personal Awareness Elective  3  
Respiratory Care Management  3  
MLT 2687L  Microbiology for Health Care Laboratory  1  
PHIL 2625  Introduction to Professional Ethics  3  

Semester Hours  17

Total Semester Hours  132-133

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).