BIOLOGY, B.S. - RESPIRATORY THERAPY OPTION

The Respiratory Therapy program consists of three years study as a Biology/Respiratory Therapy major or two years study as an Allied Health Technology/Respiratory Therapy major at Millersville followed by a 19-month clinical training phase cosponsored by a regional hospital. At the end of their studies students are awarded the BS in Biology, Respiratory Therapy option or Allied Health Technology, Respiratory Therapy option. They are eligible to sit for the entry-level national certification examination, and when that is passed, the Clinical Simulation Exam. Persons already holding baccalaureate degrees may apply for admission into the clinical phase of the program as certification students.

Affiliated Faculty:

Ahmad, Masood; Medical Director
M.D., F.S.C.; Pre-Medicine, Government College, Gujranwala, Pakistan, 1989; M.B., B.S., Nishtar Medical College, Multan, Pakistan, 1996. Board Certifications: Internal Medicine, 2004; Critical Care Medicine, 2007; Pulmonary Disease, 2010; Sleep Medicine, 2011

Chrissos, Elaine; Program Director
B.S.Ed., Millersville University, 1980; Millersville University Program in Respiratory Therapy, 1988; RRT, 1989, MS Northeastern University, 2022

Harleman, Jarrod; Director of Clinical Education
B.S., Millersville University Program in Respiratory Therapy, 2010; M.S., Misericordia University, 2016; RRT, 2011. Neonatal-Pediatric Specialist, 2011

Major in Biology, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 101</td>
<td>Foundations of Biology C- or Higher</td>
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Appendix 1. Foundations of Biology

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<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 632</td>
<td>Cell and Developmental Biology</td>
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<tr>
<td>BIOL 634</td>
<td>Foundations of Genetics &amp; Molecular Biology</td>
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Total Hours 0

Concentration in Respiratory Therapy

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<tr>
<td>BIOL 257</td>
<td>Introduction to Allied Health Professions</td>
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<tr>
<td>BIOL 254</td>
<td>Human Anatomy &amp; Physiology I (C- minimum)</td>
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<tr>
<td>BIOL 255</td>
<td>Human Anatomy &amp; Physiology II (C- minimum)</td>
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</tr>
<tr>
<td>BIOL 361</td>
<td>Microbiology (C- minimum)</td>
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RESPIRATORY THERAPY PROFESSIONAL PHASE I

Student must complete the Phase II coursework in order to be employed and certified as a respiratory therapist.

RESP 410 | Acute Cardiopulmonary Care | 2 |
RESP 411 | Respiratory Care Techniques 1 | 2 |

Total Hours 55

Req Related for Biology, BS

For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.

CHEMISTRY

A C- or higher in CHEM 111 and 112 is a prerequisite for CHEM 231. A C- or higher in CHEM 231 is a prerequisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232.

CHEM 111 | Introductory Chemistry 1 | 0 |
CHEM 112 | Introductory Chemistry 2 | 0 |

Organic Chemistry - Choose 1 of the following options 1-2:

Option 1. Organic Chemistry I and II

CHEM 231 | Organic Chemistry I | 0 |
CHEM 232 | Organic Chemistry II | 0 |

Option 2. Short Course in Organic Chemistry

CHEM 235 | Organic Chemistry | 0 |

MATHEMATICS FOR PRE-ATHL, RESP THER, OR PPOD

Calculus I or Honors Calculus - Choose 1 of the following:

MATH 161 | Calculus 1 | 4-5 |
MATH 163H | Honors Calculus 1 |

PHYSICS

Students who might be interested in attending graduate or professional school after completing their professional phase should also take PHYS 132 or 232.

Physics 1 with Algebra or Calculus (C- minimum) - Choose 1 of the following:

PHYS 131 | Physics 1 with Algebra | 0 |
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 231</td>
<td>Physics 1 with Calculus</td>
<td>4-5</td>
</tr>
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Total Hours: 4-5