BHS in Clinical and Diagnostic Sciences with Emphasis in Respiratory Therapy

Degree Program Description

Respiratory therapists assess and treat dysfunction involving the heart and lungs. Respiratory therapists work in hospitals, intensive care units, emergency rooms, air and ambulance transport, neonatal and pediatric units, patient homes, sleep laboratories, skilled nursing facilities, and in the medical device industry. They work closely with physicians to manage ventilators and artificial airways, administer prescribed inhaled medications, perform pulmonary function testing, and analyze arterial blood specimens. The Respiratory Therapy program at MU includes two years of pre-requisite coursework and two years (including summer semesters) of professional coursework, which can be completed in Columbia or at the program’s satellite campus at Mercy Hospital in St. Louis. Students graduate with the Bachelor of Health Science (BHS) degree in Clinical and Diagnostic Sciences with an emphasis in Respiratory Therapy. Graduates of the program are eligible to challenge credentialing examinations administered by the National Board for Respiratory Care (NBRC) (https://www.nbrc.org). An online degree advancement program is available for credentialed respiratory therapists who seek the bachelor’s degree. For additional information on the profession of Respiratory Care, please visit: https://be-an-rt.org/.

Major Program Requirements

Students must complete the courses below with a grade of C (2.0) or higher to earn the BHS in Clinical and Diagnostic Sciences with an emphasis in Respiratory Therapy degree. In addition, students must meet degree and University requirements (http://catalog.missouri.edu/academicdegerequirements/universityrequirements), including University general education (http://catalog.missouri.edu/academicdegerequirements/generaleducationrequirements) requirements. A separate application is required for admission to the program. Students are encouraged to work with an advisor in order to best structure the pre-requisites and prepare for the program application.

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<th>Program Pre-requisites</th>
<th>Credits</th>
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<tr>
<td>MATH 1100 College Algebra</td>
<td>3</td>
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<tr>
<td>ENGLISH 1000 Exposition and Argumentation</td>
<td>3</td>
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<tr>
<td>or ENGLISH 1000H Honors Exposition English</td>
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<tr>
<td>PSYCH 1000 General Psychology</td>
<td>3</td>
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<tr>
<td>or PSYCH 1000H General Psychology - Honors</td>
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<tr>
<td>COMMUN 1200 Public Speaking</td>
<td>3</td>
</tr>
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<td>or COMMUN 1200H Public Speaking - Honors</td>
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<tr>
<td>BIO_SC 1010 General Principles and Concepts of Biology</td>
<td>5</td>
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<tr>
<td>&amp; BIO_SC 1020 and General Biology Laboratory</td>
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</tr>
<tr>
<td>or BIO_SC 1500 Introduction to Biological Systems with Laboratory Honors</td>
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<tr>
<td>or BIO_SC 1500H Introduction to Biological Systems with Laboratory Honors</td>
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<tr>
<td>CHEM 1320 College Chemistry I</td>
<td>4</td>
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<tr>
<td>or CHEM 1320H College Chemistry I - Honors</td>
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<tr>
<td>CDS 2190 Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>PTH_AS 2201 Human Anatomy Lecture and Human Anatomy Laboratory</td>
<td>5</td>
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<tr>
<td>or PTH_AS 2203</td>
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<tr>
<td>MICROB 2800 Microbiology for Nursing and Health Professions</td>
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<tr>
<td>or MICROB 3200 Medical Microbiology and Immunology</td>
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<tr>
<td>MPP 3202 Elements of Physiology</td>
<td>5</td>
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<tr>
<td>STAT 1200 Introductory Statistical Reasoning</td>
<td>3</td>
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<tr>
<td>or STAT 1300 Elementary Statistics</td>
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<tr>
<td>or ESC_PS 4170 Introduction to Applied Statistics</td>
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<tr>
<td>HLTH_SCI 3900W Introduction to The Research Process and Evidence Base - Writing Intensive</td>
<td>3</td>
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<tr>
<td>or HLTH_SCI 3900HW Introduction to The Research Process and Evidence Base - Honors/Writing Intensive</td>
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<tr>
<td>RS_THR 1000 Introduction to Respiratory Therapy (Optional)</td>
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<th>Major Core requirements</th>
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<tr>
<td>CDS 3460 Cardiovascular and Pulmonary Diagnostic Applications I</td>
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<tr>
<td>CDS 4440 Organization and Administration</td>
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<tr>
<td>CDS 4460 Cardiovascular and Pulmonary Diagnostic Applications II</td>
<td>3</td>
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<tr>
<td>CDS 4500 Emergency and Disaster Management in Healthcare</td>
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<tr>
<td>RS_THR 3000 Fundamentals of Respiratory Care</td>
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<tr>
<td>RS_THR 3220 Equipment and Therapeutics</td>
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<td>RS_THR 3240 Assessment and Therapeutics Lab</td>
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<tr>
<td>RS_THR 3290 Cardiopulmonary Pharmacology</td>
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<tr>
<td>RS_THR 3420W Principles of Mechanical Ventilation - Writing Intensive</td>
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<td>RS_THR 3440 Mechanical Ventilation Lab</td>
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<tr>
<td>RS_THR 3941 Clinical Practice I</td>
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<td>RS_THR 3942 Clinical Practice II</td>
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<tr>
<td>RS_THR 3943 Clinical Practice III</td>
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<tr>
<td>RS_THR 4020 Perinatal/Neonatal Respiratory Care</td>
<td>3</td>
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<tr>
<td>RS_THR 4040 Respiratory Pathophysiology</td>
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<tr>
<td>RS_THR 4220 Community and Patient Education I</td>
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<tr>
<td>RS_THR 4240 Pulmonary Rehabilitation</td>
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<td>RS_THR 4420 Pediatric Respiratory Care</td>
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<tr>
<td>RS_THR 4620 Pulmonary Function Technologies</td>
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<td>RS_THR 4930 Current Issues in Respiratory Care</td>
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<td>RS_THR 4940 Clinical Practice IV</td>
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<td>RS_THR 4973 Clinical Practice V</td>
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<td>RS_THR 4983 Clinical Practice VI</td>
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<td>RS_THR 4993 Clinical Practice VII</td>
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Professional Credentialing/Licensure

After graduation, students are eligible to take the credentialing exams offered by the National Board for Respiratory Care (NBRC) (https://www.nbrc.org).

Graduates will also be required to apply for licensing in the state in which they choose to work.

Accreditation

The University of Missouri Respiratory Therapy Program’s Bachelor of Health Science in Clinical & Diagnostic Sciences with an emphasis
in Respiratory Therapy, CoARC # 200033, in Columbia, MO is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (http://www.coarc.com)).

The University of Missouri at Mercy Hospital Respiratory Therapy Program’s Bachelor of Health Science in Clinical & Diagnostic Sciences with an emphasis in Respiratory Therapy, CoARC # 300006, in St. Louis, MO is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (http://www.coarc.com)).

Programmatic outcomes data (https://www.coarc.com/Students/Programmatic-Outcome-Data.aspx) is available to the public on the CoARC website.

Commission on Accreditation for Respiratory Care
264 Precision Blvd
Telford, TN 37690
817-283-2835
www.coarc.com (http://www.coarc.com)

**Semester Plan**

Below is a sample plan of study, semester by semester. A student's actual plan may vary based on course choices where options are available.

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<th>First Year</th>
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<td>MATH 1100</td>
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