

# RESPIRATORY CARE A.A.S. (CAREER)

Program website (<https://www.frederick.edu/programs/healthcare/respiratory-care.aspx>)

## Program Description

Prepares students to assume responsible positions as part of the Health Care Team. Focuses on the use of objective scientific data as well as theory to guide students to solve complex problems in the clinical setting. Students receive specialized education in the areas of diagnosis, treatment, management, and preventative care for patients with cardiopulmonary disorders. Respiratory Care students participate in various classroom, laboratory, and clinical experiences. The laboratory experience provides the opportunity for hands on experience in preparation for clinical practice in diverse clinical settings. A grade of "C" or better must be earned in all courses. Upon completion of the program, the student is eligible to sit for the National Registry Examination administered by the National Board for Respiratory Care (N.B.R.C.). The program is accredited by:

Commission on Accreditation for Respiratory Care (CoARC)  
264 Precision Blvd.  
Telford, TN 37690  
817.283.2835

See the Respiratory Care section under Special Programs of Study (<https://frederick-public.courseleaf.com/admission/special-programs-study/>) for application information

## Program Learning Outcomes

- Demonstrate diagnostic and therapeutic procedures required to perform respiratory therapist duties entering the profession.
- Perform procedures to maintain the airway, remove secretions, and assure ventilation and tissue oxygenation.
- Perform assessments and modifying therapy based on the patient's response to current therapeutic regimen.
- Demonstrate proficiency within inter-professional teams and communicate effectively with diverse populations.
- Apply problem-solving strategies in patient care settings.
- Demonstrate ethical decision-making skills and professional responsibility.

**For admission requirements, please refer to the** Special Programs of Study (<https://frederick-public.courseleaf.com/admission/special-programs-study/#respcore>) **section of the catalog.**

## Program Requirements

- Students must complete their credit **English and Mathematics** within the first 24 credits.
- One course must meet the cultural competence graduation requirement (<https://frederick-public.courseleaf.com/general-education-core/#cultural>).
- **CORE: The General Education CORE** is that foundation of the higher education curriculum providing a coherent intellectual experience for all students. Students should check with an advisor or the transfer

institution (ARTSYS) before selecting General Education CORE requirements. <http://artsys.usmd.edu/>

- In some General Education categories (Mathematics, Biological & Physical Sciences), a 4-credit course selected from the GenEd course list will satisfy the requirement in place of a 3-credit course. Students should check with an advisor before selecting these courses.
- For the Physical Education, Health, or Nutrition requirement, a 3-credit PHED, HLTH, or NUTR course may satisfy the requirement in place of a 1-credit course. Students should check with an advisor before selecting this course.
- Students must earn a grade of "C" or better in ENGL 101 English Composition.
- Students must earn a grade of "C" or better in all courses in the Respiratory Care program.

Code	Title	Credits
<b>English</b>		
ENGL 101	English Composition	3
<b>Mathematics</b>		
MATH 120	Statistics (or higher MATH course)	3
Select MATH 120 or higher from the Mathematics Elective (Gen Ed course list) ( <a href="https://frederick-public.courseleaf.com/general-education-core/#mathematics">https://frederick-public.courseleaf.com/general-education-core/#mathematics</a> ) (MATH 145 recommended)		
<b>Social &amp; Behavioral Sciences</b>		
PSYC 101	General Psychology	3
<b>Arts &amp; Humanities</b>		
COMM 102	Interpersonal Communication <sup>1</sup>	3
or COMM 105	Small Group Communication	
<b>Biological &amp; Physical Sciences</b>		
BSCI 201	Anatomy and Physiology I	4
BSCI 202	Anatomy and Physiology II	4
BSCI 223	Microbiology for Allied Health	4
<b>Physical Education, Health, or Nutrition Requirement</b>		
RESP courses satisfy this requirement		
<b>Departmental Requirements</b>		
MEDA 108	Basic Medical Terminology	1
or MEDA 109	Medical Terminology	
RESP 100	Introduction to Respiratory Care (Fall)	2
RESP 101	Gas Exchange Physiology (Spring)	2
RESP 102	Fundamentals of Respiratory Care (Fall)	4
RESP 103	Pharmacology (Fall)	3
RESP 105	Cardiopulmonary and Renal Anatomy and Physiology (Spring)	3
RESP 107	Principles of Mechanical Ventilation (Spring)	4
RESP 109	Clinical Practicum I (Spring)	2
RESP 110	Clinical Practicum II (Summer)	2
RESP 200	Pulmonary Diagnostics (Fall)	2
RESP 201	Cardiac Monitoring and Diagnostics (Fall)	4
RESP 202	Neonatal and Pediatric Respiratory Care (Fall)	3
RESP 203	Clinical Practicum III (Fall)	2
RESP 204	Pulmonary Rehabilitation and Home Care (Spring)	2
RESP 205	Professional Seminar (Spring)	2
RESP 207	Cardiopulmonary and Renal Pathophysiology Review (Spring)	3
RESP 209	Clinical Practicum IV (Spring)	2
Total Credits		67

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COMM 102 and COMM 105 satisfy the Cultural Competence requirement. Please select one.

# Transfer Note

For more information on careers and transfer, contact the Career and Academic Planning Services office at 301.846.2471 or visit Transfer Services (<https://www.frederick.edu/student-resources/counseling-advising/transfer-services.aspx>).

# Guided Pathway to Success (GPS)

Suggested schedules map your path to degree completion.

Students should meet with an advisor each semester to carefully select and sequence courses based on their specific academic goals and interests. Visit Jefferson Hall or call 301.846.2471 for advising.

The Respiratory Care program at FCC is a selective admissions program. **This pathway is for students who have been accepted into the FCC Respiratory Care program only.** Students who have not yet been accepted into the Respiratory Care program should begin the Pre-Health Professions Pre-Respiratory Care pathway and apply to the Respiratory Care program after all selective admissions courses have been completed.

Recommended First Semester		Credits
Pre-admission - Recommended Fall Courses <sup>1</sup>		
ENGL 101	English Composition <sup>2</sup>	3
Mathematics Elective (Gen Ed course list) ( <a href="https://frederick-public.courseleaf.com/general-education-core/#mathematics">https://frederick-public.courseleaf.com/general-education-core/#mathematics</a> ) <sup>2</sup>		3-4
MATH 120	Statistics (or higher required - MATH 145 recommended)	
Select one of the following: <sup>2,3,4</sup>		0-4
BSCI 55	Preparation for Allied Health	
BSCI 150	Principles of Biology I	
CHEM 101	General Chemistry I (recommended)	
PSYC 101	General Psychology <sup>2</sup>	3
COMM 102	Interpersonal Communication	3
or COMM 105	or Small Group Communication	
Credits		12-17
Recommended Second Semester		
Pre-admission - Recommended Spring Courses <sup>1</sup>		
BSCI 201	Anatomy and Physiology I	4
BSCI 223	Microbiology for Allied Health	4
MEDA 108	Basic Medical Terminology	1-3
or MEDA 109	or Medical Terminology	
Credits		9-11
Recommended Third Semester		
Fall		
BSCI 202	Anatomy and Physiology II	4
RESP 100	Introduction to Respiratory Care (Fall) (must complete in third semester) (Milestone)	2
RESP 102	Fundamentals of Respiratory Care (Fall) (must complete in third semester) (Milestone)	4
RESP 103	Pharmacology (Fall)	3
Credits		13
Recommended Fourth Semester		
Spring		
RESP 101	Gas Exchange Physiology (Spring)	2
RESP 105	Cardiopulmonary and Renal Anatomy and Physiology (Spring) (must complete in fourth semester) (Milestone)	3
RESP 107	Principles of Mechanical Ventilation (Spring) (must complete in fourth semester) (Milestone)	4
RESP 109	Clinical Practicum I (Spring) (must complete in fourth semester) (Milestone)	2
Credits		11
Recommended Fifth Semester		
Summer		

RESP 110	Clinical Practicum II (Summer) (must complete in fifth semester, must be taken in Summer) (Milestone)	2
Credits		2
Recommended Sixth Semester		
Fall		
RESP 200	Pulmonary Diagnostics (Fall) (must complete in sixth semester) (Milestone)	2
RESP 201	Cardiac Monitoring and Diagnostics (Fall) (must complete in sixth semester) (Milestone)	4
RESP 202	Neonatal and Pediatric Respiratory Care (Fall) (must complete in sixth semester) (Milestone)	3
RESP 203	Clinical Practicum III (Fall) (must complete in sixth semester) (Milestone)	2
Credits		11
Recommended Seventh Semester		
Spring		
RESP 204	Pulmonary Rehabilitation and Home Care (Spring) (must complete in seventh semester) (Milestone)	2
RESP 205	Professional Seminar (Spring) (must complete in seventh semester) (Milestone)	2
RESP 207	Cardiopulmonary and Renal Pathophysiology Review (Spring) (must complete in seventh semester) (Milestone)	3
RESP 209	Clinical Practicum IV (Spring) (must complete in seventh semester) (Milestone)	2
Credits		9
Total Credits		67-74

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- The first two recommended semesters consist of pre-admission courses to be completed prior to acceptance into the selective admission Respiratory Care A.A.S. degree program. In consultation with an advisor, students should follow the Pre-Health Professions: Pre-Respiratory Care pathway prior to acceptance into the Respiratory Care A.A.S. program. Upon acceptance into the Respiratory Care A.A.S. program, students should then follow this Respiratory Care A.A.S. pathway, also in consultation with an advisor.
- 2
- Take this course within the first 24 credits.
- 3
- Complete prerequisite for BSCI 201 Anatomy and Physiology I.
- 4
- Consult with advisor to select appropriate course or to select an elective.

## Part-time Students

Part-time students should complete courses in the order listed on the pathway. Please contact program manager for questions about part-time status.

Students who take fewer than 15 credits each semester or who require developmental English or Math coursework will need additional semesters to complete their degrees. Summer term and January session classes may help students to make faster progress.

## Pathway Legend

Milestone - courses with the Milestone notation should be taken within the recommend credit range to stay on track for program completion.

Fall, Spring, Summer - courses with a Fall, Spring, or Summer notation indicate the course is offered in the specified semester only.