RESPIRATORY THERAPIST
Associate in Applied Science (AAS)
Program Code: 10-515-1

our graduates IN DEMAND

2017/2018

MID-STATE TECHNICAL COLLEGE
mstc.edu
The Respiratory Therapist program at Mid-State prepares students to employ scientific principles to identify, treat, and prevent acute or chronic dysfunction of the cardiopulmonary system. Successful graduates work under medical direction in a variety of care settings. Students study airway management and life support, airway clearance therapies, pulmonary rehabilitation, medication administration, and the use of therapeutic medical gasses. The program combines classroom instruction and clinical experience with actual patients and equipment at local hospitals and agencies. Travel is required.

**Associate in Applied Science**
- **Total Credits:** 70
- **Salary Information:** mstc.edu/programsalaries

**Careers:** Cardiopulmonary Technician, EKG Technician, Home-Care Therapist, Hospital-Based Therapist, Long-term Care Therapist, Polysomnography Technician, Pulmonary Function Technician, and Respiratory Therapist

In general, there is growing demand for these careers. Example: Respiratory Therapist career has grown by 3% over the last two years and is expected to grow by 10% over the next 10 years. Currently 832 Respiratory Therapists are employed in the region (EMSI data within 100-mile radius of Wisconsin Rapids).

**TRANSFER TO MID-STATE**
You may be eligible to receive credit for prior knowledge and skills gained. This includes transfer credit for approved coursework from high schools and post-secondary institutions, credit for approved military or occupational experience/training, and credit by examination. Go to mstc.edu/transfer for more information.

**OTHER OPTIONS**
**RELATED PROGRAMS**
Health Information Management and Nursing

For estimated tuition and fees, visit mstc.edu/programcosts.

**NOTES:**

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PROGRAM OUTCOMES
Employers will expect you, as a Respiratory Therapist graduate, to be able to:
• Apply advanced-level respiratory therapy concepts to patient care situations.
• Demonstrate technical proficiency required to fulfill the role of an advanced-level respiratory therapist.
• Practice respiratory therapy according to established professional and ethical standards.

Respiratory therapists in Wisconsin and many other states are licensed professionals. The Respiratory Therapist program is accredited by:

Commission on Accreditation for Respiratory Care (CoARC)
1248 Harwood Road, Bedford, TX 76021-4244
817.283.2835 • www.coarc.com

ADDITIONAL ENTRY CRITERIA
To apply to the Respiratory Therapist program, please submit the following documents to Mid-State Admissions:
Criminal Background Statement of Understanding and Release of Information form

Mid-State Technical College • Admissions
500 32nd Street North
Wisconsin Rapids, WI 54494

FUNCTIONAL ABILITIES
A list of specific physical, emotional, and mental tasks needed to function as a respiratory therapist is available at mstc.edu/programs/respiratory-therapist. Contact the disability services coordinator in the Student Services Office to receive assistance.

CLINICAL-RELATED REQUIREMENTS
Prior to placement at a clinical site, students need to pay for a criminal background check and provide documentation of required health work to a private vendor.

Students are responsible for ensuring all requirements remain current during program enrollment.

Clinical sites have the right to refuse a student's placement based on inadequate health records, pending charges, or conviction records. Students with a criminal history may not be able to complete clinical courses. Mid-State will make two attempts to place a student in an appropriate clinical experience. If Mid-State is unable to place the student after two attempts, the student will be withdrawn from the clinical course and will not be able to advance in the program.
**PROGRAM PROGRESSION**
In order to progress in and successfully complete the program, students must:

- Repeat courses not completed with a grade of “C” or better prior to progressing in core courses or other courses with co- or prerequisites.
- Receive a grade of “C” or better in all courses required for graduation.

Please note that the ability to repeat courses is dependent upon availability of courses. Students may be required to apply for program re-entry in order to repeat courses within the program’s instructional area.

**STUDENT HANDBOOK**
Visit mstc.edu/studenthandbook to view Mid-State’s student handbook, which contains information about admissions, enrollment, appeals processes, services for people with disabilities, financial aid, graduation, privacy, Mid-State’s Student Code of Conduct, and technology.

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**academic career plan**

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<thead>
<tr>
<th>Term/Year</th>
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This ACT program is 100 percent funded with a TAACCCT Round IV $19.9 million grant awarded by the US Department of Labor’s Employment and Training Administration. This program is an equal opportunity program, and auxiliary aids and services are available upon request to individuals with disabilities. This workforce product was funded by a grant awarded by the US Department of Labor’s Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the US Department of Labor. The US Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.
### SAMPLE FULL-TIME CURRICULUM OPTION

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<tr>
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Total Credits 70

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Please Note:
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Program completion time may vary based on student scheduling and course availability. For details, go to mstc.edu/classfinder.

### SAMPLE PART-TIME CURRICULUM OPTION

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Total credits 70

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**Developmental Psychology**

**10809188** .......................................................... 3 credits

Studies human development throughout the lifespan and explores developmental theory and research with an emphasis on the interactive nature of the biological, cognitive, and psychosocial changes that affect the individual from conception to death. Application activities and critical thinking skills enable students to gain an increased knowledge and understanding of themselves and others. A student scoring between 55–80 on Accuplacer Reading Comprehension is recommended to co-enroll in the Introduction to College Reading course.

**Prerequisite:** Minimum Accuplacer scores – Reading 55, Sentence Skills 60 or equivalent, or Intro to College Reading 10848104 with a grade of “C” or better and Intro to College Writing 10831103 with a grade of “C” or better.

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**English Composition 1**

**1080136** .......................................................... 3 credits

Designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing, and revising are applied through a variety of activities. Students analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals develop critical reading skills through analysis of various written documents.

**Prerequisite:** Accuplacer Sentence Skills score of 85 or equivalent, or Intro to College Writing 10831103 with a grade of “C” or better. Proficiency in word processing skills recommended.

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**General Anatomy & Physiology**

**10806177** .......................................................... 4 credits

Examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision making and professional communication with colleagues and patients.

**Prerequisite:** Minimum Accuplacer score for Reading is 55 (Students scoring between 55–80 are encouraged to enroll in Introduction to College Reading) and one semester of college-level biology or chemistry with a “C” or better, or Human Body in Health & Disease 10509102 with a “C” or better, or Emergency Medical Technician-Basic 10531168 with a “C” or better.

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**Intermediate Algebra with Applications**

**10804118** .......................................................... 4 credits

This course offers algebra content with applications. Topics include properties of real numbers; order of operations; algebraic solution for linear equations and inequalities; operations with polynomial and rational expressions; operations with rational exponents and radicals; and algebra of inverse, logarithmic, and exponential functions.

**Prerequisite:** Pre-Algebra 10834109 with a grade of “C” or better. Accuplacer Arithmetic score of 110, Accuplacer Arithmetic score of 90, and Accuplacer Algebra score of 30. (A student scoring a “C” or lower should enroll in the Math Lab supplementary instruction with the next level math class.)

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**Intro to American Government**

**10809122** .......................................................... 3 credits

Introduces American political processes and institutions. Focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. Explores the role of the media, interest groups, political parties, and public opinion in the political process. Also explores the role of state and national government in our federal system. A student scoring between 55–80 on their Accuplacer Reading Comprehension, or 60–80 on Accuplacer Sentence Skills is recommended to co-enroll in the Introduction to College Reading course and/or Introduction to College Writing course, respectively.

**Prerequisite:** Minimum Accuplacer scores – Reading 55, Sentence Skills 60 or equivalent, or Intro to College Reading 10848104 with a grade of “C” or better and Intro to College Writing 10831103 with a grade of “C” or better.

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**Intro to Ethics: Theory & Application**

**10809166** .......................................................... 3 credits

Provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives are used to analyze and compare relevant issues. Students critically evaluate individual, social, and/or professional standards of behavior, and apply a systemic decision-making process to these situations. A student scoring between 55–80 on Accuplacer Reading Comprehension or 60–80 on Accuplacer Sentence Skills is recommended to co-enroll in the Introduction to College Reading course and/or Introduction to College Writing course, respectively.

**Prerequisite:** Minimum Accuplacer Scores – Reading 55, Sentence Skills 60 or equivalent, or Intro to College Reading 10848104 with a grade of “C” or better and Intro to College Writing 10831103 with a grade of “C” or better.

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**Intro to Psychology**

**10809198** .......................................................... 3 credits

This introductory course surveys the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. A student scoring between 55–80 on Accuplacer Reading Comprehension is recommended to co-enroll in the Introduction to College Reading course.

**Prerequisite:** Minimum Accuplacer scores – Reading 55, Sentence Skills 60 or equivalent, or Intro to College Reading 10848104 with a grade of “C” or better and Intro to College Writing 10831103 with a grade of “C” or better.

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**Intro to Sociology**

**10809196** .......................................................... 3 credits

Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions of family, politics, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, and social organization. A student scoring between 55–80 on Accuplacer Reading Comprehension or 60–80 on Accuplacer Sentence Skills is recommended.
to co-enroll in Introduction to College Reading and/or Introduction to College Writing, respectively.

Prerequisite: Minimum Accuplacer scores – Reading 55, Sentence Skills 60 or equivalent, or Intro to College Reading 10848104 with a grade of “C” or better and Intro to College Writing 10831103 with a grade of “C” or better

**Introduction to Diversity Studies**

10809172............................................................ 3 credits

Introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, and religion are explored. A student scoring between 55–80 on Accuplacer Reading Comprehension or 60–80 on Accuplacer Sentence Skills is recommended to co-enroll in the Introduction to College Reading course and/or Introduction to College Writing course, respectively.

Prerequisite: Minimum Accuplacer scores – Reading 55, Sentence Skills 60 or equivalent, or Intro to College Reading 10848104 with a grade of “C” or better and Intro to College Writing 10831103 with a grade of “C” or better

**Medical Terminology**

10501101........................................................... 3 credits

Focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasizes spelling, definition, and pronunciation. Introduces operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.

**Microbiology**

10806197............................................................. 4 credits

Examines microbial structure, metabolism, genetics, growth, and the relationship between humans and microorganisms. Disease production, epidemiology, host defense mechanisms, and the medical impact of microbes in the environment, industry, and biotechnology are also addressed.

Prerequisite: General Anatomy & Physiology 10806177, or General Biology 10806114, or Plant Biology 10806184 with a grade of “C” or better

**Oral/Interpersonal Communication**

10801196............................................................. 3 credits

Focuses upon developing speaking, verbal, and non-verbal communication, and listening skills through individual presentations, group activities, and other projects. For a student scoring between 55–80 on their Accuplacer Reading Comprehension exam and 60–80 on the Sentence Skills exam, it is recommended to co-enroll in the Introduction to College Reading and/or Intro to College Writing courses.

Prerequisite: Minimum Accuplacer scores – Reading 55, Sentence Skills 60 or equivalent

**Respiratory Airway Management**

10515112............................................................. 2 credits

Provides a comprehensive exploration of airway management concepts and skills.

Prerequisite: Respiratory Clinical 1 10515175

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**Respiratory Clinical 1**

10515175............................................................. 2 credits

Introduces respiratory therapy practice in the hospital setting. Develops skills such as basic therapeutics, patient assessment, medical record review, safety practices, and patient interaction and communication.

Prerequisites: Respiratory Survey 10515111, Respiratory Therapeutics 1 10515171, Respiratory Therapeutics 2 10515172, Respiratory Pharmacology 10515173, Respiratory/Cardiac Physiology 10515174, and Microbiology 10806197

**Respiratory Clinical 2**

10515178............................................................. 3 credits

Continued development of respiratory therapy clinical skills, including respiratory therapeutics. Focuses on monitoring, analyzing, and interpreting data to make appropriate modifications in patient care.

Prerequisite: Respiratory Clinical 1 10515175

**Respiratory Clinical 3**

10515179............................................................. 3 credits

Continued development of respiratory therapy clinical skills, including respiratory therapeutics. Focuses on monitoring, analyzing, and interpreting data to make appropriate modifications in patient care.

Corequisite: Respiratory Clinical 2 10515178

**Respiratory Clinical 4**

10515182............................................................. 3 credits

Continued development of respiratory therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing, and interpreting data to make appropriate modifications in patient care.

Prerequisites: Respiratory Clinical 3 10515179, Respiratory Life Support 10515113

**Respiratory Clinical 5**

10515183............................................................. 3 credits

Focuses on the completion of respiratory therapy competencies and transition to employment.

Corequisite: Respiratory Clinical 4 10515182

**Respiratory Disease**

10515176............................................................. 3 credits

Explores the signs, symptoms, causes, progression, and treatment of obstructive, restrictive, and infectious diseases or disorders of the body that affect the respiratory system.

Prerequisites: Respiratory Survey 10515111, General Anatomy & Physiology 10806177, and Microbiology 10806197

**Respiratory Life Support**

10515113............................................................. 3 credits

Focuses on management of adult ventilatory support.

Prerequisites: Respiratory Therapeutics 2 10515172 and Respiratory Clinical 1 10515175; Corequisite: Respiratory Airway Management 10515172
Respiratory Neo/Peds Care
10515180 ........................................................... 2 credits
Provides a comprehensive orientation to the field of neonatal and pediatric respiratory care to include fetal development, birth, neonatal physiology, pulmonary dynamics, abnormal cardiopulmonary conditions, diseases, and noninvasive and invasive therapeutic interventions.
Prerequisite: Respiratory Life Support 10515113 and Respiratory Clinical 3 10515179

Respiratory Pharmacology
10515173 ........................................................... 3 credits
Examines basic pharmacology principles, drug dosage, and calculations. Medications for inhalation including mucolytics, bronchodilators, and anti-inflammatories. Also includes cardiac drugs, anesthetic drugs, neuromuscular blockers, and antimicrobials.
Prerequisites: Respiratory Survey 10515111, Respiratory Therapeutics 1 10515171, and General Anatomy & Physiology 10806177

Respiratory Survey
10515111 ........................................................... 3 credits
Examines the role of the respiratory therapist within the healthcare community. Reviews the ethical, legal, and regulatory principles that guide practice across diverse populations. Introductory patient assessment and critical thinking processes used in the development of respiratory care plans are explored.
Prerequisite: Admission to Respiratory Therapist 105151 program;
Corequisite: Medical Terminology 10501101

Respiratory Therapeutics 1
10515171 ........................................................... 3 credits
Introduces the topics of medical gas administration and humidity and aerosol therapy. Applies physics, math, and patient assessment concepts to oxygen, aerosol, and humidity therapy.
Corequisites: Respiratory Survey 10515111, Medical Terminology 10501101, and General Anatomy & Physiology 10806177

Respiratory Therapeutics 2
10515172 ........................................................... 3 credits
Introduces therapeutic procedures including arterial puncture, bronchial hygiene, lung expansion therapy, and pulmonary rehabilitation.
Prerequisites: Respiratory Therapeutics 1 10515171, Respiratory Survey 10515111, and General Anatomy & Physiology 10806177

Respiratory Therapist Test Prep
10515101 ........................................................... 1 credit
Explores strategies for preparing for respiratory therapist professional examinations including study skills, test-preparation skills, and test-taking skills. Includes a basic review of content related to the examinations.
Corequisite: Respiratory Clinical 4 10515182

Respiratory/Cardiac Physiology
10515174 ........................................................... 3 credits
Provides an in-depth knowledge of the structure and function of the respiratory and circulatory systems necessary to function as a competent respiratory therapist.
Prerequisites: General Anatomy & Physiology 10806177, Respiratory Survey 10515111, and Respiratory Therapeutics 1 10515171

Respiratory/Cardio Diagnostics
10515181 ........................................................... 3 credits
Advanced invasive and noninvasive diagnostic cardiopulmonary procedures including pulmonary function, hemodynamics, and rescue medicine.
Prerequisite: Respiratory Clinical 3 10515179

Speech
10801198 ........................................................... 3 credits
Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of this course. If a student earns below the minimum Accuplacer score in each category (Reading 80, Sentence Skills 85), he/she is eligible to take Oral Communication in lieu of Speech, provided the Accuplacer scores are minimum of Reading 55 and Sentence Skills 60, or the student has completed Intro to College Writing and/or Intro to College Reading with a “C” or better.
Prerequisite: Minimum Accuplacer scores – Reading 80, Sentence Skills 85, or completion of Intro to College Writing and/or Intro to College Reading with a “C” or better or equivalent

Student Success in Respiratory Therapist
10515100 ........................................................... 1 credit
Explores success strategies for the Respiratory Therapist program including time management, study skills, test-preparation and test-taking skills, planning, and stress management.
Prerequisite: Admission to Respiratory Therapist program 105151;
Corequisite: Respiratory Survey 10515111

Written Communication
10801195 ........................................................... 3 credits
Develops writing skills, which include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Also develops critical reading and thinking skills through analysis of a variety of written documents.
Prerequisite: Accuplacer Sentence Skills score of 85 or equivalent, or Intro to College Writing 10831103 with a grade of “C” or better.
Proficiency in word processing skills recommended.