

RESPIRATORY THERAPIST



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

CAREER OPTIONS

Cardiopulmonary Technician
EKG Technician
Hemodynamic Monitory Technician
Home-Care Therapist
Hospital-Based Therapist
Polysomnography Technician
Pulmonary Function Technician
Respiratory Care Practitioner
Respiratory Rehabilitation Therapist
Respiratory Therapist
Specialists such as: Education, Pediatrics, Geriatrics and Neonatology

POTENTIAL FOR ADVANCEMENT

Cardiopulmonary Technologist
Class B Physician's Assistant
Perfusionist
Pulmonary Function Technologist

Program Code 10-515-1

Expected Program Costs: \$10,400

Median Annual Salary: \$42,000

OVERVIEW

Always in need of qualified practitioners, Respiratory Care is an allied health specialty used under medical direction in evaluation, treatment and care of patients with cardiopulmonary problems. Learn the therapeutic use of medical gases and related equipment, humidifiers, aerosols and other environmental control systems. You will also receive instruction in medication, ventilatory support, bronchopulmonary drainage, rehabilitation, airway management and long-term home care.

Students receive both classroom instruction and clinical experience. The clinical portion of the program is held at various local hospitals and agencies. In the clinical sessions, you have the opportunity to apply what you have learned in the classroom to actual patients and equipment.

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 Rd
Bedford, TX 76021-4244
817.283.2835
www.coarc.com

Travel for this program is required.

The Respiratory Therapist program is offered at the Marshfield campus.

Respiratory Therapy Educator
Respiratory Therapy Manager

Potential advancement generally requires further education.

ADMISSIONS PROCEDURES

To apply to the Respiratory Therapy (RT) program, please complete the following steps and submit documents to the MSTC Admissions Office:

Step 1:

1. Complete an MSTC application form and return it with the \$30 non-refundable application fee.
2. Complete the Accuplacer or ACT test. Minimum scores required:
 - Reading-Accuplacer score of 55
 - Sentence Skills-Accuplacer score of 60
 - Math-Accuplacer score of 34
 - ACT equivalents for above scores are acceptable.

If a student does not meet the required test scores, they may retest or complete an identified structured course(s) in the Academic Support Center.

- Written Communication, courses in mathematics and some science courses have placement requirements. Please refer to the course description section in the back of the catalog, listed under General Education, for course specific information.

3. Submit an official copy of all academic transcripts, including high school, college or university and HSED/GED.
4. Complete a Background Information Disclosure (BID) form and submit \$15 for Caregiver Background check. Wisconsin Caregiver law requires a background check. This form is available at <http://www.mstc.edu/pdf/BIDform.pdf>.
5. Complete the online program information session found on MSTC's website to learn about the profession, academic requirements, and impact on one's personal life.

When the requirements for Step 1 are completed, the student will be conditionally admitted to the program and may be eligible for financial aid.

Step 2:

To be eligible to enroll in Respiratory Therapist core courses, complete the following requirements:

1. Complete Intro to Reading and Study Skills with a grade of "C" or better, an Accuplacer Reading score of 89 or higher, or ACT equivalent.
2. Complete Intro to College Writing with a grade of "C" or better, an Accuplacer Sentence Skills score of 85 or higher, or ACT equivalent.
3. Complete Pre-Algebra with a grade of "C" or better, an Accuplacer Math score of 79 or higher, or ACT equivalent.
4. Complete one year of high school chemistry or biology with at least a grade of "C" both semesters or one semester of college chemistry or biology with a grade of "C" or better.
5. Complete the Intent to Enroll form and submit proof of completion of all requirements to the Student Affairs Office in Wisconsin Rapids.

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

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning is available for certain courses in the form of high school advanced standing, transfer credit, test credit, military experience and experiential credit. Contact an MSTC counselor with any questions you may have regarding this option.

FUNCTIONAL ABILITIES

A list of specific physical, emotional and mental tasks needed to function as a Respiratory Therapist is available at mstc.edu. It is the student's responsibility to notify the disability services coordinator in the Student Affairs Office to receive assistance.

CLINICAL RELATED REQUIREMENTS

Clinical sites have the right to refuse a student's admission based on pending charges and conviction records. If you have a criminal history, you may not be able to complete clinical courses. MSTC will make two attempts to place a student in a clinical experience.

Prior to beginning a clinical experience in a health care facility, students must:

- a. Provide evidence of good health by completion of required health work within three months prior to starting their clinical experience.
- b. Provide evidence of current CPR.
- c. Obtain the required uniform for clinical experiences.
- e. Accept responsibility for clinical assignment(s) regardless of time and location, including transportation and other personal arrangements.

Contact the program counselor for more details.

PROGRAM PROGRESSION

In order to maintain a passing status and progress in the program, students must:

- Receive a grade of "C" or better in all core, general education, elective and transfer courses.
- Maintain a program GPA of 2.0 or higher.

If a student is not successful in a 10-515 core course, he/she will need to repeat that course prior to progressing in the program. Potential continuation is dependent upon availability in the course/program.

Students will receive two attempts to pass each 10-515 course. If a passing grade is not achieved in two attempts, the student will be withdrawn from the program. A withdrawal grade of "W" counts as one attempt for the course. Requests for special consideration may be directed to the Service & Health Associate Dean.

CURRICULUM

Term	(16 credits)
10501101 Medical Terminology	3
10515111 Respiratory Survey	3
10515171 Respiratory Therapeutics 1	3
10801195 Written Communication	3
10806177 General Anatomy & Physiology	4

Term	(16 credits)
10515172 Respiratory Therapeutics 2	3
10515173 Respiratory Pharmacology	3
10515174 Respiratory/Cardiac Physiology	3
10806197 Microbiology	4
10809172 Race, Ethnic & Diversity Studies -or-	
10809196 Intro to Sociology	3

Term	(5 credits)
10801196 Oral/Interpersonal Communication -or-	
10801198 Speech	3
10515175 Respiratory Clinical 1	2

Term	(17 credits)
10515112 Respiratory Airway Management	2
10515113 Respiratory Life Support	3
10515176 Respiratory Disease	3
10515178 Respiratory Clinical 2	3
10515179 Respiratory Clinical 3	3
10809144 Macroeconomics	3

Term	(16 credits)
10515180 Respiratory Neo/Peds Care	2
10515181 Respiratory Cardio Diagnostics	3
10515182 Respiratory Clinical 4	3
10515183 Respiratory Clinical 5	3
10809198 Intro to Psychology	3
Elective	2

Total Credits 70

Please Note:

- The Respiratory Therapist program has an August start date. We advise you to meet with an academic advisor or counselor to successfully plan your academic schedule.
- This curriculum sequence is only for student planning. Actual student schedules will vary depending on course availability.
- Degree completion time may vary based on student scheduling and course availability.
- For General Education course descriptions (800 level), see section marked under Course Descriptions.

RESPIRATORY THERAPIST

PROGRAM COURSE DESCRIPTION

10501101 // 3 credits

Medical Terminology

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

10515111 // 3 credits

Respiratory Survey

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 Therapy Program 105151

10515112 // 2 credits

Respiratory Airway Management

Provides a comprehensive exploration of airway management concepts and skills.
Prerequisite: Respiratory Clinical 1 10515175

10515113 // 3 credits

Respiratory Life Support

Focuses on management of adult ventilatory support.
Prerequisites: Respiratory Therapeutics 2 10515172 and Respiratory Clinical 1 10515175; Corequisite: Respiratory Airway Management 10515112

10515171 // 3 credits

Respiratory Therapeutics 1

Introduces the topics of medical gas administration and humidity and aerosol therapy. The learner will apply physics, math and patient assessment concepts to oxygen, aerosol and humidity therapy.
Prerequisite: General Anatomy and Physiology 10806177; Corequisite: Respiratory Survey 10515111

10515172 // 3 credits

Respiratory Therapeutics 2

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

10515173 // 3 credits

Respiratory Pharmacology

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

10515174 // 3 credits

Respiratory/Cardiac Physiology

Provides the student with an indepth knowledge of the structure and function of the respiratory and circulatory systems necessary to function as a competent Respiratory Therapist.
Prerequisites: General Anatomy and Physiology 10806177; Respiratory Survey 10515111; and Respiratory Therapeutics 1 10515171

10515175 // 2 credits

Respiratory Clinical 1

Introduces Respiratory Therapy practice in the hospital setting. Includes the development of skills such as basic therapeutics, patient assessment, medical record review, safety practices, patient interaction, and communication. This course includes the complete program competency list. At the completion of this clinical, learners must demonstrate competence in a minimum of 5 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. There is no remuneration for students enrolled in this course.
Prerequisites: Respiratory Survey 10515111, Medical Terminology 10501101, Respiratory Therapeutics 1 10515171, Respiratory Therapeutics 2 10515172

10515176 // 3 credits

Respiratory Disease

Exploration of 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

10515178 // 3 credits

Respiratory Clinical 2

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 12 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. There is no remuneration for students enrolled in this course.
Prerequisite: Respiratory Clinical 1 10515175

10515179 // 3 credits

Respiratory Clinical 3

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 19 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. There is no remuneration for students enrolled in this course.
Corequisite: Respiratory Clinical 2 10515178

10515180 // 2 credits
Respiratory Neo/Peds Care

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, noninvasive and invasive therapeutic interventions.

Prerequisite: Respiratory Life Support 10515113 and Respiratory Clinical 3 10515179

10515181 // 3 credits
Respiratory Cardio Diagnostics

Advanced invasive and noninvasive diagnostic cardiopulmonary procedures including pulmonary function, hemodynamics and rescue medicine.

Prerequisite: Respiratory Clinical 3 10515179

10515182 // 3 credits
Respiratory Clinical 4

Continued development of Respiratory Therapy clinical skills including respiratory therapeutics. Focuses on monitoring, analyzing and interpreting data to make appropriate modifications in patient care. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in a minimum of 26 (required and/or simulated) competencies. The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. There is no remuneration for students enrolled in this course.

Prerequisites: Respiratory Clinical 3 10515179, Respiratory Life Support 10515113

10515183 // 3 credits
Respiratory Clinical 5

Focuses on the completion of respiratory therapy competencies and transition to employment. This course includes the complete program competency list. At the completion of this clinical learners must demonstrate competence in all of the required and required/simulated competencies. The instructor may identify specific competencies to be addressed during this clinical. Note: Competencies with an R are required, competencies with an S are required, but may be simulated, competencies with an O are optional. There is no remuneration for students enrolled in this course.

Prerequisite: Respiratory Clinical 4 10515182