

# MASTER OF RESPIRATORY CARE

## Program Director

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## Program Description

The Master of Respiratory Care program has been designed specifically for respiratory professionals who desire to enhance their career options in educational and/or leadership roles within the respiratory care profession. The many resources available to respiratory care practitioners, through key professional organizations, are also integrated throughout the program. The core of the curriculum builds on skills related to clinical research, grant writing, leadership development, and technological applications related to educational, administrative and research settings as well.

## Admission Requirements

All respiratory care applicants must meet the following requirements:

- Regular admission requires a cumulative undergraduate grade-point average of at least 3.0 (on a 4.0 scale). Applicants with a cumulative undergraduate grade point average of 2.7 to 2.99 may be admitted provisionally. Applicants with a cumulative undergraduate grade point average of less than 2.7 will be required to submit an official report of the Graduate Record Examination (General Test) scores completed within the last five years for admission consideration.
- Current state license as a respiratory care practitioner
- National Board for Respiratory Care (NBRC) professional RRT (advanced practitioner) credential
- Membership in the American Association for Respiratory Care (AARC) in order to access data/projects that will be needed in academic coursework
- An (optional) personal interview and/or additional information as requested by the program's admission committee.
- Students not meeting regular admission requirements may be provisionally admitted. See the *Graduate Catalog* under Provisional Admission.

Applicants must submit the following items to Graduate Admissions:

- Official transcripts from each college or institution of higher learning attended (other than YSU)
- Three (3) letters of recommendation from individuals familiar with the applicant's academic or professional background
- A letter of intent stating one's professional goals and how graduate education in respiratory therapy will help fulfill said goals
- An official report of the Graduate Record Examination (General Test) scores completed within the past five years if the applicant's cumulative grade point average is less than 2.7

## Graduate Faculty

**Kelly Colwell**, Ed.D., Assistant Professor

Distance learning; improving patient and family health literacy through education for management of chronic asthma in children; improving access to healthcare in underserved areas; improving student awareness of the need for cultural competency to better understand, educate, and treat patients in a multi-diverse patient population

**Amanda Roby**, M.H.H.S., Assistant Professor

**Salvatore Sanders**, Ph.D., Professor

Technology applications for health care, education and management; student and faculty attributes related to learning; instructional design; distance learning

**Mary Yacovone**, M.Ed., Professor

Adult critical care; cardiopulmonary disease management; distance education curriculum development

## Degree Requirements

COURSE	TITLE	S.H.
<b>Required Core Courses 27 sh</b>		
RESC 6900	The Respiratory Care Profession	3
RESC 6906	Respiratory Care Seminar	3
RESC 6908	Leadership Development in Respiratory Care	3
RESC 6910	Competency Assessment in Respiratory Care	3
RESC 6915	Education and Accreditation in Respiratory Care	3
RESC 6920	Technology Applications for Health and Human Services	3
RESC 6950	Respiratory Care Research	3
CJFS 6942	Research and Statistics in Health and Human Services	3
HHS 6981	Grant Writing	3
<b>Recommended Electives 3 sh</b>		
RESC 6922	Special Topics in Respiratory Care	1-3
RESC 6930	Managing Respiratory Services	3
HHS 6922	Planning and Fiscal Management	4
HHS 6950	Professional Codes in Healthcare	3
HHS 6958	Health Services Issues	3
AHLT 5807	Epidemiology	3
AHLT 5816	Environmental Regulations	3
AHLT 5840	Comparative Health Systems	3
<b>Total Degree Hours 30 sh</b>		

## Combined Bachelors/Masters Program

Highly qualified undergraduate students can apply for admission into the combined "4+1" Bachelors/Masters program for the Master of Respiratory Care. See the description of the "4+1" program (<http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-health-professions/bs-respiratory-care/#curriculumsheettext>) in the undergraduate catalog.

## Learning Outcomes

- Upon completion of the program, graduates will demonstrate the ability to comprehend, prepare, apply, and evaluate evidence based research related to respiratory care.
- Upon completion of the program, graduates will demonstrate proficiency in the skills necessary to utilize current technologies such as, EMR/EHR computer and online charting and data collection systems/services and applications appropriate for respiratory management, respiratory education and research.
- Upon completion of the program, graduates will demonstrate leadership skills with applications within the healthcare delivery, education, management and research settings.
- Upon completion of the program, graduates will demonstrate the ability to comprehend, prepare, apply, and evaluate advanced clinical applications.
- Upon completion of the program graduates will be cognizant of cultural differences within diverse patient populations and have an awareness of how those differences may affect the delivery of healthcare and outcomes.

## Graduate Courses

### **RESC 6900 The Respiratory Care Profession 3 s.h.**

Study of origins, current role, and future directions of respiratory care profession within the framework of the current health care environment. Examination of professional resources is also included.

**Prereq.:** Active membership in American Association for Respiratory Care and acceptance in MRC program.

### **RESC 6906 Respiratory Care Seminar 3 s.h.**

Development of a literature review on select current topics culminating in preparation of a scholarly paper consistent with Respiratory Care Journal Conference format and an accompanying PowerPoint presentation.

**Prereq.:** Acceptance in MRC program.

### **RESC 6908 Leadership Development in Respiratory Care 3 s.h.**

Using an evidenced-based perspective, the course will examine nature of leadership in health care organizations with an emphasis on self-understanding and learning to achieve both a theoretical and practical understanding of leadership. Health care managers need to be able to create, foster and manage organizations in which people thrive and perform at their best to achieve organizational excellence.

**Prereq.:** Acceptance in MRC program.

### **RESC 6910 Competency Assessment in Respiratory Care 3 s.h.**

Reviews how clinically-related competencies in respiratory care are measured including available tools. Evaluation of procedures performed by multiple health care practitioners including issues at state/national levels. Importance of assessing cultural competence also included.

**Prereq.:** Acceptance in MRC program.

### **RESC 6915 Education and Accreditation in Respiratory Care 3 s.h.**

Comparison of institutional as well as programmatic accreditation requirements. Prepare students with up-to-date tools/approaches to address major educational accreditation concerns in hospital as well as in post-secondary settings. Students will also compare and contrast the role of accreditation in today's health care environment.

**Prereq.:** Acceptance in MRC program.

### **RESC 6920 Technology Applications for Health and Human Services 3 s.h.**

Exploration of technology applications for education, presentations, communications and management in Health and Human Service disciplines. Creation of digital media such as audio and/or video files, spreadsheet macros, e-portfolios and Web-based applications of various technologies will be required. Application of technology to education, supervision or management will be evaluated through completion of a technology-enhanced project.

**Prereq.:** Acceptance in MRC program.

### **RESC 6922 Special Topics in Respiratory Care 1-3 s.h.**

Special topics for a focused study on problems, issues, or concerns that relate to respiratory care leadership.

**Prereq.:** Acceptance in MRC program.

### **RESC 6926 Advanced Mechanical Ventilation 3 s.h.**

Develops the practitioner's knowledge of advanced ventilatory theory. The technological aspects and clinical application of dual control modes of ventilation, closed loop and ventilator feedback technology will be discussed. The clinical application of unconventional methods of ventilatory support such as ECMO and carbon dioxide removal, transtracheal gas insufflation and HFV will also be presented.

**Prereq.:** Acceptance in MRC program.

### **RESC 6930 Managing Respiratory Services 3 s.h.**

Presents a comprehensive approach to the delivery of respiratory services across the continuum of care. Management practices in traditional or acute care settings and nontraditional home care, outpatient rehabilitation facilities, sleep laboratories and long-term care institutions will be compared and contrasted. Compliance with national/state accreditation standards will also be presented.

**Prereq.:** Acceptance in MRC program.

### **RESC 6943 Advanced Monitoring and Therapeutics 3 s.h.**

The course is designed to analyze technical features and clinical application of 'state of the art' invasive and noninvasive monitoring devices. Specialty therapeutic procedures such as the administration of specialized medical gases and medications will also be explored. The essential elements key to successful integration of new and/or complicated therapeutic modalities and equipment into clinical practice will be highlighted.

**Prereq.:** Acceptance in MRC program.

### **RESC 6950 Respiratory Care Research 3 s.h.**

Provides rationale behind evidence-based medicine and presents key elements of scientific research for one study, lab investigation or clinical trial. Course will culminate in creation of abstract to be submitted for publication in Respiratory Care journal.

**Prereq.:** Acceptance in MRC program.