

# RESPIRATORY CARE – M.S.R.C.

## Program director

Abdullah Alismail

## Medical director

Laren D. Tan

## Advisory committee

Alan Alipoon

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## Program description

The faculty of the Loma Linda University Master of Science in Respiratory Care Program believe in the promotion of and support for excellence in the profession of respiratory care and cardiopulmonary sciences through education, knowledge development, research, leadership, and public service. The mission of the program is to:

1. Support the mission and goals of Loma Linda University and the School of Allied Health Professions;
2. Facilitate student professional development, expansion of knowledge, and contribution to the field of respiratory care and cardiopulmonary sciences through guidance, resources, and leadership;
3. Support the medical community's needs for qualified graduate respiratory therapists and cardiopulmonary researchers who will facilitate positive changes through patient advocacy, leadership, and knowledge discovery and implementation;
4. Encourage continuing professional and personal development within the community through volunteerism and community service geared toward disease prevention, education, and intervention.

The four-quarter program is designed to allow customizable options for interactions with the program faculty, both face-to-face and online, offered through various electives. The core curriculum courses set the foundation for this graduate degree in respiratory care. In addition, electives may be chosen by students, based on their area of interest and with program director approval. Program electives are in the areas of leadership and management, education, research, advanced clinical practice, and polysomnography.

## Program learning outcomes

In addition to the stated institutional learning outcomes (<http://llucatalog.llu.edu/about-university/institutional-learning-outcomes/>), by the end of this program, the graduate should be able to:

1. Apply advanced respiratory care clinical skills to cardiopulmonary patients, using current evidence-based medicine practices;

2. Exhibit fundamental skills in leadership and management in health care;
3. Exhibit research interpretation skills in evidence-based medicine;
4. Exhibit presentation skills necessary to successfully promote advancements in the respiratory care profession for health-care professionals;
5. Participate in professional activities promoting professional growth;
6. Exhibit mastery of best practices in treating cardiopulmonary patients.

## Admissions

Admission to the Master of Science in Respiratory Care Program is open all year long. Students may apply to autumn, winter, spring, or summer quarter. In addition to Loma Linda University (<http://llucatalog.llu.edu/about-university/admission-policies-information/#admissionrequirementstext>) and School of Allied Health Professions (<http://llucatalog.llu.edu/allied-health-professions/#generalregulationstext>) admissions requirements, the applicant must also complete the following requirements:

- An earned baccalaureate degree from a U.S. accredited institution of higher education or an international institution having appropriate government recognition as a degree-granting institution
- Have earned the Registered Respiratory Therapist credential from the National Board for Respiratory Care; and licensed in their state of residence or eligible to practice by the government or equivalent
- Interview
- GPA of 3.0 or higher

## Program requirements

### Core

AHCJ 519	Graduate Wholeness Portfolio <sup>3</sup>	1
AHCJ 566	Theoretical Foundations of Leadership	3
RELE 524	Bioethics and Society	3
RSTH 541	Advanced Concepts in Critical Care I	2
RSTH 550	Advanced Procedures in Cardiopulmonary Science	2
RSTH 560	Advanced Cardiopulmonary Assessment, Diagnostics, and Monitoring	2
RSTH 571	Advanced Pathophysiology of Cardiopulmonary Diseases I	3
RSTH 580	Research Concepts in Respiratory Care Sciences	3
RSTH 698	Capstone Project in Respiratory Care (1, 2) <sup>1</sup>	6

### Elective Domains <sup>2</sup>

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Choose courses from the different elective domains below with program director approval.

### Domain I: Research Methods and Statistics

AHCJ 555	Writing for Health-Care Professionals
AHRM 514	Biostatistics
AHRM 571	Statistics and Research for Health Professionals I <sub>2</sub>
AHRM 572	Statistics and Research for Health Professionals II <sub>2</sub>
AHRM 581	Research and Statistics I
AHRM 582	Research and Statistics II
AHRM 595	Research and Statistics Concepts and Methods: Intermediate

AHRM 604	Research-Proposal Writing
AHRM 605	Critical Analysis of Scientific Literature
EPDM 509	Principles of Epidemiology
STAT 515	Grant- and Contract-Proposal Writing
STAT 521	Biostatistics I
STAT 522	Biostatistics II
STAT 523	Biostatistics III
STAT 548	Analytical Applications of SAS and R

**Domain II: Leadership and Management**

AHCJ 545	Legal and Ethical Issues in the Health Professions
AHCJ 548	Human Resource Management in the Health-Care Environment
AHCJ 549	Professional Responsibility in Allied Health Professions
AHCJ 550	Organizational Theory
AHCJ 557	Integrating Emotional Intelligence Leadership into the Healthcare Professions
AHCJ 567	Personal Leadership
AHCJ 576	Basics of Marketing
AHCJ 588	Fundamentals of Human Resource Management
AHCJ 589	Strategic Planning in Health-Care Organizations
HADM 506	Fundamentals of Health-Care Finance
HADM 508	Accounting Fundamentals in Health-Care Management
HADM 514	Health-Care Economics
HADM 528	Organizational Behavior in Health Care
HADM 564	Health-Care Finance
HADM 574	Managing Human Resources in Health-Care Organizations
HADM 604	Health Systems Strategic Planning
HADM 605	Health-Care Quality Management
HLIF 510	Health-Care Information Systems
HLIF 515	The U.S. Health-Care System
HLIF 526	Quality and Performance Improvement for Health Care
HPRO 535	Health Education Administration and Leadership
RSTH 585	Current Issues in Respiratory and Health Care Policy

**Domain III: Education**

AHCJ 506	Educational Evaluation and Clinical Assessment
AHCJ 509	Transformational Teaching and Learning
AHCJ 515	Curriculum Development in Higher Education
AHCJ 556	Administration in Higher Education
AHCJ 564	Collaborative Learning in Higher Education
AHCJ 579	Instructional Effectiveness
AHCJ 586	Curricula Planning in Health Sciences

**Sleep**

RSPS 510	Sleep Neurophysiology and Pathologies
RSPS 511	Methodologies in Sleep Disorder Assessment and Intervention
RSPS 512	Advanced Polysomnography Practicum

**Advance Respiratory Care Practicum**

RSTH 596	Advanced Clinical Practice in Respiratory Care I
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RSTH 597	Advanced Clinical Practice in Respiratory Care II
<b>Total Units</b>	<b>45</b>

- Multiple registrations required to complete total unit requirement.
- Students lacking research and statistics must take AHRM 571 Statistics and Research for Health Professionals I and AHRM 572 Statistics and Research for Health Professionals II (or equivalent) as part of their degree completion requirements.
- Fulfills service learning requirement.

**Capstone**

The capstone project must be completed as a written document of publishable quality and presented orally as a seminar (face-to-face or online). It must be prepared either for publication or implementation (including protocol) at the facility for which it was designed. The program director will assign each student a mentor having expertise in the student's chosen capstone topic area.

**Normal time to complete the program**

One (1) year (four [4] academic quarters) based on full-time enrollment; part time permitted