



**Skyline**  
COLLEGE

## Science Mathematics Technologies Respiratory Care Program

Revised 12/17

Skyline College offers an Advanced Practitioner Program which qualifies a graduate to sit for both the Certification (CRT) and Registered Respiratory Therapist (RRT) exams. To become licensed and work in the State of California, an applicant must complete an Associate Degree in Respiratory Care and an Accredited Respiratory Care Program.

The following are Degree and Program requirements along with class descriptions:



### ASSOCIATE IN SCIENCE DEGREE WITH A MAJOR IN RESPIRATORY CARE

Required Core Courses	Units
RPTH 400 Patient & Health Care Concerns	1.5
RPTH 410 Intro to Patient Care & Respiratory Assessment Techniques	3
RPTH 415 Respiratory Pharmacology	1.5
RPTH 420 Application of Cardiopulmonary Anatomy & Physiology	3
RPTH 430 Intro to Respiratory Therapeutics	6
RPTH 438 Clinical Clerkship I	1
RPTH 445 Respiratory Diseases I	2
RPTH 448 Clinical Clerkship II	2
RPTH 450 Respiratory Diseases II	3
RPTH 458 Clinical Clerkship III	6
RPTH 460 Respiratory Critical Care	3
RPTH 475 Hemodynamic Monitoring/Selected Topics in Respiratory Care	2
RPTH 480 Diagnostic Testing and Outpatient Respiratory Care	2
RPTH 485 Clinical Medicine Seminar	2
RPTH 488 Clinical Clerkship IV	6
RPTH 490 Neonatal/Pediatric/Rehabilitative Respiratory Care	2.5
RPTH 495 Respiratory Care Board Exam Prep/Review	2
<b>TOTAL REQUIRED UNITS IN MAJOR AREA</b>	<b>48.5</b>
Plus Chemistry, Human Anatomy, Human Physiology, Microbiology and General Education/other requirements for the Associate degree (refer to Associate Degree Requirements).	

***All applicants must complete the following prior to acceptance into the program:***

Algebra - equivalent to MATH 110 or 112	Medical Terminology – equivalent to HSCI 484 or BUS 485
Chemistry (with lab) – equivalent to Chem 192 or 410 (suggested course is CHEM 410 if not already completed)	Human Anatomy (with lab) - equivalent to BIO 250
	Eligibility for Skyline College English 836 or equivalent

*(High school coursework can no longer be accepted to meet stated requirements)*



## RESPIRATORY CARE CORE CURRICULUM

Admission to this program is by special application only.  
*Applications accepted January 15 – May 1*

### **RPTH 400 PATIENT AND HEALTH CARE CONCERNS (1.5)**

1.5 lecture hours per week. Prerequisite: Admission to the Respiratory Therapy program. Introduction to the field of Respiratory Care; job responsibility and role within the health care team. Discussion of ethical and legal issues that involve Respiratory Care Practitioners. Discussion of aging, death and dying, and information technologies. Transfer credit: CSU.

### **RPTH 410 INTRODUCTION TO PATIENT CARE AND RESPIRATORY ASSESSMENT TECHNIQUES (3)**

Two lecture hours plus three lab hours per week. Prerequisite: Admission to the Respiratory Therapy program. The study and practice of basic patient care arts. Also included will be a review of basic science relevant to respiratory therapy and its application to respiratory system assessment. The class will include some hospital practice. Transfer credit: CSU.

### **RPTH 415 RESPIRATORY PHARMACOLOGY (1.5)**

1.5 lecture hours per week. Prerequisite: Admission to the Respiratory Therapy program. Study of general pharmacology principles, basic terminology, drug action, dosage, adverse reactions, and drug toxicity. Emphasis will include physiologic actions/interactions and cardio-respiratory medication categorization. Transfer credit: CSU.

### **RPTH 420 APPLICATION OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY (3)**

Three lecture hours per week. Prerequisite: Admission to the Respiratory Therapy program. Study of the healthy cardiopulmonary system with application to the types of alterations that occur with disease. Emphasis will be applied to areas of particular concern to Respiratory Care Practitioners. When applicable, case histories will be utilized. Computer programs will be used for computations requiring practice. Transfer credit: CSU.

### **RPTH 430 INTRODUCTION TO RESPIRATORY THERAPEUTICS (6)**

Four lecture hours and six laboratory hours per week. Prerequisite: Admission to the Respiratory Therapy program. The study and laboratory practice of respiratory care procedures basic to medical/surgical respiratory care. Included will be respiratory pharmacology, oxygen and aerosol therapy, hyperinflation therapy, secretion removal procedures, adjuncts to cardiopulmonary resuscitation and the care and cleaning of respiratory therapy equipment. Transfer credit: CSU.

### **RPTH 438 CLINICAL CLERKSHIP I - SPRING (1)**

#### **(Credit/No Credit.)**

Supervised clinical experience in local hospital. Prerequisite: Admission to the Respiratory Therapy program. Supervised experience in the medical/surgical areas of a local hospital, observing and performing respiratory care procedures to non-critical care patients. Transfer credit: CSU.

### **RPTH 445 RESPIRATORY DISEASES I (2)**

Two class hours per week. Prerequisite: Admission to the Respiratory Therapy program. Using the obstructive pulmonary diseases (asthma, chronic bronchitis and emphysema) as a model, the student will learn disease terminology, disease classification, history taking and physical examination. Also included will be basic radiologic, clinical and pulmonary diagnostics. Transfer credit: CSU.

### **RPTH 448 CLINICAL CLERKSHIP II - SUMMER (2)**

#### **(Credit/No Credit.)**

Supervised clinical experience in local hospitals. Prerequisite: Admission to the Respiratory Therapy program. Supervised experience in the Medical-Surgical patient care areas of a local hospital. Emphasis is on attaining proficiency in skills performed by a Respiratory Care Practitioner in these areas. Transfer credit: CSU.

### **RPTH 450 RESPIRATORY DISEASES II (3)**

Three lecture hours per week. Prerequisite: Completion of the first year Respiratory Therapy program. Continuation of the study of cardiopulmonary diseases utilizing the model developed in RPTH 445. To include the treatment and pharmacotherapy of selected disorders. Transfer credit: CSU.

**RPTH 458 CLINICAL CLERKSHIP III (6)  
(Credit/No Credit.)**

Two lecture hours per week for eight weeks and 320 total hours of supervised clinical experience in local hospitals. Prerequisite: Completion of the first year Respiratory Therapy program. Supervised experience in the Adult Intensive Care Unit and/or Coronary Care Unit of a local hospital. Emphasis is on attaining proficiency in skills performed by a respiratory care practitioner in these areas. Transfer credit: CSU.

**RPTH 460 RESPIRATORY CRITICAL CARE (3)**

Four lecture hours and six lab hours per week plus two hours per week by arrangement for eight weeks. Prerequisite: Completion of the first year Respiratory Therapy program. Study and practice of techniques necessary to provide respiratory care to patients in adult critical care areas. Emphasis includes advanced airway management, ventilator care, respiratory assessment, monitoring and management, and effective communication. Transfer Credit: CSU

**RPTH 475 HEMODYNAMIC MONITORING AND SELECTED TOPICS IN RESPIRATORY CARE (2)**

Two class hours per week. Prerequisite: Admission to the Respiratory Therapy program. The application of advanced principles of cardiopulmonary diagnostics and physiology to the care of critically ill patients. The application of the above principles to other body systems. Transfer credit: CSU.

**RPTH 480 DIAGNOSTIC TESTING AND OUTPATIENT RESPIRATORY CARE (2)**

Three lecture hours per week for eight weeks. Prerequisite: Completion of the first year Respiratory Therapy program. By learning concepts in various diagnostic testing studies, the student will be able to identify changes in patient's pulmonary status and assist the healthcare team in the outpatient setting to improve patient's quality of life. Fundamental aspects of pulmonary function testing, exercise testing, and metabolic studies will be explored. Transfer credit: CSU.

**RPTH 485 CLINICAL MEDICINE SEMINAR (2)**

Two class hours per week. Prerequisite: Completion of the first year Respiratory Therapy program. Integration of pathology, pathophysiology, diagnostic techniques and therapeutic modalities through the utilization of patient case studies. Preparation for job placement. Transfer credit: CSU.

**RPTH 488 CLINICAL CLERKSHIP IV (6) (Credit/No Credit.)**

Supervised clinical experience in local hospitals. Prerequisite: Completion of the first year Respiratory Therapy program. Supervised experience in the Adult Intensive Care Unit, Coronary Care Unit, Pulmonary Function Lab, Neonatal/Pediatric Care Units of a local hospital. Also the option of a home care rotation. Emphasis is on attaining proficiency in skills performed by a Respiratory Care Practitioner in these areas. Transfer credit: CSU.

**RPTH 490 NEONATAL, PEDIATRIC RESPIRATORY CARE (2.5)**

Two lecture hours plus three lab hours per week. Prerequisite: Admission to the Respiratory Therapy program. By applying the normal and abnormal cardiorespiratory anatomy and physiology of the newborn and pediatric patient, the student will master the basic foundation and competent delivery of respiratory care with this age specific population. This course will give the student the necessary background to pursue further studies in this specialized area. Transfer credit: CSU.

**RPTH 495 RESPIRATORY CARE BOARD EXAMINATION PREPARATION & REVIEW (2)  
(Credit/No Credit or letter grade.)**

Two lecture hours per week. Prerequisite: Completion of the first year of a respiratory therapy program or an applicant to the Respiratory Care Board for Respiratory Care. Preparation and review for the Certification Examination of the California Respiratory Care Board and the Registration Examination offered by the National Board for Respiratory Care. May be repeated for credit. Transfer credit: CSU.