



2017-2018 Cochise College Catalog Addendum

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THE PROVISIONS OF THIS CATALOG REFLECT INFORMATION AS OF THE DATE OF PUBLICATION.

NOTICE:

The contents of this addendum supersede the content specified in the 2017-2018 catalog where noted. Contents of the 2017-2018 catalog not revised in this addendum remain in effect. The unrevised content of the 2017-2018 catalog, and the revised content of this addendum are valid for the 2017-2018 academic year.

TABLE OF CONTENTS

Section 1.....	Refunds
Section 2.....	Respiratory Therapy Program Modification
Section 3.....	Respiratory Therapy Course Modifications
Section 4.....	Respiratory Therapy Degree Map

Refunds

Tuition and Fee Refunds

Students must be signed up for a class the day prior to the course start date. To receive a full refund for a dropped course, it must be dropped prior to the start of the term. Students who drop a class within the first week of the term will be refunded 90 percent of their tuition. The refund can be applied to a new course added to their schedule as long as the new class has not met yet. No refund is available after the 90-percent refund window closes.

If a class is canceled by the college, students will receive a full refund for all tuition and fees. Refunds are issued within three weeks after the end of registration. Students may enroll in another class and apply the tuition and fees from the canceled class to a new class.

All refunds for tuition, fees, and deposits due to a student will first be applied to any amounts owed to the college. Sufficient time must be allowed for final clearance of fee payment checks before refunds are made.

Residence Hall Refunds

Students are eligible for a 50-percent refund of room fees if leaving residence within 21 days of the first day of classes for each semester or within 21 days of the start date of a specific program in which they are enrolled. Room fees will not be reimbursed after the 21st day as specified above.

Students withdrawing from the college may be eligible for a meal plan refund, prorated on a weekly basis, up to four weeks after the start of the 17-week term. Students who are enrolled in only a first or second eight-week term will be charged a prorated meal plan rate of 50 percent of a full 17-week meal plan. Departing eight-week-only students are eligible for refunds, prorated on a weekly basis, up to two weeks after the eight-week term begins. Any refund exceptions to this policy must be made in writing to the dean of Student Services and must contain the rationale for the request along with any documentation requested by the dean. Requests for exceptions to this policy will not be accepted by the dean after 15 working days from the departure of the student.

Flight Program Refunds

Students must register and have funding for the Cochise College Flight Program(s) (Private Pilot Certificate; Instrument Rating; Commercial Certificate; Certified Flight Instructor Certificate; CFI Instructor Rating; Multi-engine Rating; and Jet Transition Training) two weeks prior to the start date. Students who drop prior to the start of the fall term will receive a full refund of their flight program fees. After the start of the each term (Semester), students who withdraw/or are dropped; are eligible for a refund of the flight program fees and will be paid according to the following schedule:

<u>Week of each Semester</u>	<u>% of Refund</u>
Weeks 1-3	80%
Weeks 4-6	65%
Weeks 7-9	50%
Weeks 10-12	35%
Weeks 13-15	15%
Weeks 16-21	0%

There is no refund available after the 15th week.

Federal Title IV Financial Aid Refunds

Students who receive federal financial aid funds are subject to the federal refund policy. Students who completely withdraw before completing 60 percent of the term are subject to this policy and may owe a repayment of the unearned portion of their grant funds. Students have 45 days to return the funds to Cochise College. If repayment is not made during the 45 days, the repayment owed will be turned over to the Department of Education for collection. Once a repayment is turned over to the Department of Education, eligibility for additional federal aid is suspended until satisfactory payment arrangements are made.

The Federal Pell Grant and Supplemental Educational Opportunity Grant (SEOG) programs are subject to this repayment provision. Students who have received student loan funds are responsible for completing an exit interview and for notifying their lender of the withdrawal. The federal work-study program is not subject to the refund policy. The withdrawal date is the date:

- The student began the withdrawal process prescribed by the institution;
- The student otherwise provided the school with official notification of the intent to withdraw; or
- The last date the student academically participated in the course.

The percentage of the payment period or period of enrollment completed for which assistance was awarded is calculated by dividing the total number of calendar days comprising the payment period or period of enrollment for which the assistance is awarded into the number of calendar days completed in that period as of the day the student withdrew.

Additional policy and regulatory information is available from the Financial Aid Office.

RESPIRATORY THERAPY - ASSOCIATE OF APPLIED SCIENCE (MAJOR CODE - RTH)

The Respiratory Therapy Associate of Applied Science degree prepares students to become allied health professionals specializing in the diagnosis, treatment, and care of patients suffering from cardiopulmonary disease. The program enables students to develop competencies in patient evaluation, mechanical ventilation treatment, and patient monitoring in a variety of clinical settings. Upon completion of the program, students are eligible to take national registry examinations required for certification as respiratory therapists.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Demonstrate critical thinking and problem solving skills for efficient patient management and provide appropriate treatment interventions for patients with cardiopulmonary disease.
- Demonstrate the skills needed to manage stressful situations that require quick thinking and synchronized coordination of varying activities.
- Develop critical thinking skills to evaluate and treat patients with cardiopulmonary disease.
- Demonstrate manual dexterity, eye-hand coordination, fine and gross motor skills, and tactile ability, all required to perform duties as a respiratory therapist.
- Demonstrate visual and auditory ability to assess a patient's condition and administer effective therapy specific to cardiopulmonary disease.
- Perform duties requiring extended period of standing, stooping, squatting, bending, pushing, and pulling.
- Demonstrate efficient verbal and non-verbal communication skills with internal and external clients.
- Set up, initiate, and maintain non-invasive and invasive mechanical ventilation.

YEAR 1 PROGRAM PREREQUISITES:

SPRING AND FALL SEMESTERS 23-25 CREDITS

BIO 156	Introductory Biology for Allied Health‡	4
BIO 160	Introduction to Human Anatomy and Physiology ^{o‡}	4
ENG 101	Composition* ^o	3
ENG 102	English Composition* ^o	3
MAT 151	Precalculus Algebra* ^o or higher (3-5 credits)	4
	Liberal arts	3
	Liberal arts	3

Liberal Arts: Select two PSY or SOC courses.

YEAR 2 FRESHMAN:

SPRING SEMESTER 13 CREDITS

RTH 110	Introduction to Respiratory Care‡	3
RTH 121	Basic Therapeutics‡	4
RTH 123	Basic Assessment and Monitoring‡	3
RTH 124	Pharmacology for Respiratory Care	3

FALL SEMESTER 14 CREDITS

RTH 112	Respiratory Physiology‡	3
RTH 162	Principles of Mechanical Ventilation‡	3
RTH 235	Clinical Procedures I	5
RTH 246	Cardiorespiratory Disorders I	3

YEAR 3 SOPHOMORE:

SPRING SEMESTER 13 CREDITS

RTH 241	Critical Care Therapeutics‡	4
RTH 245	Clinical Procedures II	5
RTH 251	Advanced and Specialty Therapeutics‡	4

FALL SEMESTER 13 CREDITS

RTH 243	Advanced Assessment and Monitoring	4
RTH 255	Clinical Procedures III	6
RTH 256	Cardiorespiratory Disorders II‡	3

TOTAL DEGREE REQUIREMENTS 76-78 CREDITS

RTH - RESPIRATORY THERAPY

RTH 110 - Introduction to Respiratory Care (3) ‡

An introduction to the respiratory care profession. Topics include respiratory care and the healthcare system; computer applications; patient safety, communication, and record keeping; principles of infection control; and ethical and legal implications in the practice of the profession.

3 hours lecture.

Prerequisite(s): BIO 156, BIO 160, ENG 102, MAT 151 or higher, and two PSY or SOC courses.

Concurrent enrollment in RTH 121, RTH 123, and RTH 124; and acceptance into the respiratory therapy program.

RTH 112 - Respiratory Physiology (3) ‡

A study of the cardiopulmonary system and its associated structures. Topics include the anatomy of the respiratory system, ventilation and diffusion of pulmonary gases, the circulatory system, oxygen and carbon dioxide transport, control of ventilation, and renal failure and its effects on the cardiopulmonary system.

3 hours lecture.

Prerequisite(s): RTH 110, RTH 121, RTH 123, and RTH 124; and concurrent enrollment in RTH 162, RTH 235, and RTH 246.

RTH 121 - Basic Therapeutics (4) ‡

An introduction to the therapeutics of basic respiratory care, equipment functions, and clinical indications and contraindications. Topics include medical gas therapy, oxygen delivery devices, humidity and aerosol therapy, hyperinflation therapy, chest physiotherapy, and basic airway management.

3 hours lecture, 3 hours laboratory.

Prerequisite(s): BIO 156, BIO 160, ENG 102, MAT 151 or higher, and two PSY or SOC courses.

Concurrent enrollment in RTH 110, RTH 123, and RTH 124; and acceptance into the respiratory therapy program.

RTH 123 - Basic Assessment and Monitoring (3) ‡

A study of the basic assessment and monitoring of cardiopulmonary-impaired patients. Topics include bedside respiratory assessment, clinical laboratory studies and their assessment, oxygenation and ventilation, pulmonary function measurements, clinical application of chest radiography, basic interpretation of electrocardiogram tracing, and advanced cardiac life support (ACLS).

3 hours lecture.

Prerequisite(s): BIO 156, BIO 160, ENG 102, MAT 151 or higher, and two PSY or SOC courses.

Concurrent enrollment in RTH 110, RTH 121, and RTH 124; and acceptance into the respiratory therapy program.

RTH 124 - Pharmacology for Respiratory Care (3)

A study of the principles of pharmacology and of drug receptor theory as they relate to patients with cardiopulmonary disease. Topics include general principles of pharmacology, drug dose calculations, effects of pharmacological agents on the central and peripheral nervous systems, bronchodilators, drugs used to control airway mucus and edema, and drugs used in the management of ventilator patients and patients with cardiorespiratory disorders.

3 hours lecture.

Prerequisite(s): BIO 156, BIO 160, ENG 102, MAT 151 or higher, and two PSY or SOC courses.

Concurrent enrollment in RTH 110, RTH 121, and RTH 123; and acceptance into the respiratory therapy program.

RTH 162 - Principles of Mechanical Ventilation (3) ‡

An introduction to the concepts of mechanical ventilation for adult patients. Topics include reasons for mechanical ventilation, principles of non-invasive and invasive mechanical ventilation, physiological basis of ventilatory support, physical principles of positive pressure ventilation, physical assessment of critically ill patients, and respiratory monitoring in the intensive care unit.

2 hours lecture, 3 hours laboratory.

Prerequisite(s): RTH 110, RTH 121, RTH 123, and RTH 124; and concurrent enrollment in RTH 112, RTH 235, and RTH 246.

RTH 235 - Clinical Procedures I (5)

A clinical application of respiratory care coursework. Included are a site orientation; a review of the hospital's respiratory department and its policies, procedures, and reporting systems; an introduction to medical records; and a study of patient assessment and monitoring. Also included are various respiratory therapies, infection control procedures, techniques for medical asepsis and equipment disinfection, patient care plans, and case studies.

1 hour lecture, 12 hours laboratory.

Prerequisite(s): RTH 110, RTH 121, RTH 123, and RTH 124; and concurrent enrollment in RTH 112, RTH 162, and RTH 246.

RTH 241 - Critical Care Therapeutics (4) ‡

A study of critical care principles and procedures in adult patients. Topics include airway management, mechanical ventilation waveform graphics, selected mechanical ventilators and their troubleshooting, care of mechanically ventilated patients, alternative modes of mechanical ventilation, and home mechanical ventilation.

3 hours lecture, 3 hours laboratory.

Prerequisite(s): RTH 112, RTH 162, RTH 235, and RTH 246; and concurrent enrollment in RTH 245 and RTH 251.

RTH 243 - Advanced Assessment and Monitoring (4)

A study of the assessment of critical respiratory patients. Topics include cardiac output, invasive hemodynamics, sleep-related breathing disorders, nutritional assessment, advanced cardiac arrhythmia interpretation, and bronchoscopy.

4 hours lecture.

Prerequisite(s): RTH 241, RTH 245, and RTH 251; and concurrent enrollment in RTH 255 and RTH 256.

RTH 245 - Clinical Procedures II (5)

A continuation of RTH 235. Topics include basic and advanced airway care and management, arterial blood gases, advanced respiratory monitoring, mechanical ventilation, and care decisions for adult patients. Additional topics include hemodynamic assessment of critically ill patients, respiratory care delivery environments, and the presentation of case studies.

1 hour lecture, 12 hours laboratory.

Prerequisite(s): RTH 112, RTH 162, RTH 235, and RTH 246; and concurrent enrollment in RTH 241 and RTH 251.

RTH 246 - Cardiorespiratory Disorders I (3)

A study of commonly encountered respiratory disorders in adult patients. Topics include infectious pulmonary diseases, obstructive pulmonary diseases, traumatic lung and chest injuries, pulmonary vascular diseases, disorders of the pleura and chest wall, and important issues related to cardiopulmonary disorders.

3 hours lecture.

Prerequisite(s): RTH 110, RTH 121, RTH 123, and RTH 124; and concurrent enrollment in RTH 112, RTH 162, and RTH 235.

RTH 251 - Advanced and Specialty Therapeutics (4) ‡

A study of respiratory therapies used in specialized populations. Topics include development and care of the fetus and care of the neonatal and pediatric patient: management of ventilation and oxygenation, transport, home care, pulmonary rehabilitation, and advanced cardiorespiratory care therapies. *4 hours lecture.*

Prerequisite(s): RTH 112, RTH 162, RTH 235, and RTH 246; and concurrent enrollment in RTH 241 and RTH 245.

RTH 255 - Clinical Procedures III (6)

A continuation of RTH 245. Topics include clinical assessment, advanced airway management, and advanced respiratory monitoring of neonatal and pediatric patients; and mechanical ventilation and care decisions for adult as well as neonatal and pediatric patients. Additional topics include various respiratory care delivery environments, presentation of case studies, and professional development.

2 hours lecture, 12 hours laboratory.

Prerequisite(s): RTH 241, RTH 245, and RTH 251; and concurrent enrollment in RTH 243 and RTH 256.

RTH 256 - Cardiorespiratory Disorders II (3) ‡

A continuation of RTH 246. Topics include neuromuscular disorders that affect ventilation, and neoplastic and environmental lung diseases. Additional topics include assessment of the fetus and the neonate, neonatal cardiovascular disorders and congenital anomalies, neonatal cardiopulmonary disorders, and pediatric cardiopulmonary disorders.

3 hours lecture.

Prerequisite(s): RTH 241, RTH 245, and RTH 251; and concurrent enrollment in RTH 243 and RTH 255.

DEGREE MAP

The following sequence is an example of how this program can be completed within the recommended time frame. It presumes that all course and program prerequisites have been met. Completion times may vary depending on individual circumstances. Students should consult an advisor when they plan their individual completion path using MyDegreePlan.

Program Name: Respiratory Therapy-Associate of Applied Science Degree

Locations Offered: Downtown Center

First Semester: Spring

Requirement Category	Course(s)	Delivery*	Credits
Gen Ed-Composition	ENG 101 Composition	F2F, VC	3
Gen Ed-Mathematics	MAT 151 Precalculus Algebra or higher	F2F, VC	3-5
Gen Ed-Tech Lit Substitute	BIO 156 Introductory Biology for Allied Health	F2F	4

Second Semester: Fall

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	BIO 160 Introduction to Human Anatomy and Physiology	F2F, VC	4
Gen Ed-Composition	ENG 102 English Composition	F2F, VC	3
Gen Ed-Liberal Arts		F2F, VC	3
Gen Ed-Liberal Arts		F2F, VC	3

Third Semester: Spring

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	RTH 110 Introduction to Respiratory Care	F2F	3
Core Curriculum	RTH 121 Basic Therapeutics	F2F	4
Core Curriculum	RTH 123 Basic Assessment and Monitoring	F2F	3
Core Curriculum	RTH 124 Pharmacology for Respiratory Care	F2F	3

Fourth Semester: Fall

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	RTH 112 Respiratory Physiology	F2F	3
Core Curriculum	RTH 162 Principles of Mechanical Ventilation	F2F	3
Core Curriculum	RTH 235 Clinical Procedures I	F2F	5
Core Curriculum	RTH 246 Cardiorespiratory Disorders I	F2F	3

Fifth Semester: Spring

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	RTH 241 Critical Care Therapeutics	F2F	4
Core Curriculum	RTH 245 Clinical Procedures II	F2F	5
Core Curriculum	RTH 251 Advanced and Specialty Therapeutics	F2F	4

Sixth Semester: Fall

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	RTH 243 Advanced Assessment and Monitoring	F2F	4
Core Curriculum	RTH 255 Clinical Procedures III	F2F	6
Core Curriculum	RTH 256 Cardiorespiratory Disorders II	F2F	3

Total credits required: 76-78

*Key: F2F = Face-to-Face VC = Virtual Campus

Reviewed: 9/1/2017

Notes: This degree requires one year of program prerequisites.