

RESPIRATORY CARE (RCBS)

RCBS 3010 Respiratory Care Fundamentals

[4 credit hours]

A study of the anatomy and physiology of the respiratory and cardiovascular systems, including the physics of gas exchange, ventilation, and blood flow.

Corequisites: RCBS 3020

Term Offered: Summer

RCBS 3020 Respiratory Care Practice I

[4 credit hours]

An introductory experience in the basic assessment and care of the patient with cardiopulmonary disease. Ethical issues, interpersonal communication, and infection control in the healthcare setting will also be covered.

Corequisites: RCBS 3010

Term Offered: Summer

RCBS 3110 Respiratory Care Therapeutics I

[4 credit hours]

Etiology, pathophysiology, clinical manifestations, and treatment of selected diseases of pulmonary and cardiovascular systems with emphasis on pharmacologic principles and agents used in the treatment of those diseases.

Prerequisites: (RCBS 3010 with a minimum grade of D- and RCBS 3020 with a minimum grade of D-)

Term Offered: Fall

RCBS 3120 Respiratory Care Practice II

[7 credit hours]

Didactic, laboratory, and introductory clinical experiences with a variety of equipment and procedures that are used to establish and maintain a patent airway, and to monitor and treat patients with cardiopulmonary diseases.

Prerequisites: (RCBS 3010 with a minimum grade of D- and RCBS 3020 with a minimum grade of D-)

Term Offered: Fall

RCBS 3130 Cardiopulmonary Diagnostics I

[4 credit hours]

Discussion of the theory and selected techniques used in cardiopulmonary diagnostics, including analysis of blood gases, cardiac rhythms, hemodynamic monitoring values, spirometry results, and chest x-rays.

Prerequisites: (RCBS 3010 with a minimum grade of D- and RCBS 3020 with a minimum grade of D-)

Term Offered: Fall

RCBS 3200 Introduction to Critical Care

[1 credit hour]

An introductory experience in the theory, initiation and practice of providing non-invasive and mechanical ventilation in a critical care setting.

Prerequisites: RCBS 3110 with a minimum grade of C and RCBS 3120 with a minimum grade of C and RCBS 3130 with a minimum grade of C

Term Offered: Spring

RCBS 3210 Respiratory Care Therapeutics II

[4 credit hours]

Continuation of RCBS 3110 with consideration of disease states of the pulmonary and cardiovascular systems not previously considered. Emphasis on analysis of assessment, diagnosis and treatment of individual patients by students.

Prerequisites: (RCBS 3110 with a minimum grade of D- and RCBS 3120 with a minimum grade of D- and RCBS 3130 with a minimum grade of D-)

Term Offered: Spring

RCBS 3220 Respiratory Care Practice III

[7 credit hours]

Theoretical principles involved in the initiation, maintenance, and discontinuance of mechanical ventilation. Laboratory experiences with a variety of adult mechanical ventilators. Clinical experiences providing respiratory care for patients requiring mechanical ventilation.

Prerequisites: (RCBS 3110 with a minimum grade of D- and RCBS 3120 with a minimum grade of D- and RCBS 3130 with a minimum grade of D-)

Term Offered: Spring

RCBS 3230 Cardiopulmonary Diagnostics II

[2 credit hours]

Classroom and field experiences in the theory and practice of selected cardiopulmonary diagnostic procedures including measures of pulmonary volumes, flows, gas distribution, and gas diffusion. Capnography, exercise testing, and specialized test regimens will also be covered.

Prerequisites: (RCBS 3110 with a minimum grade of C and RCBS 3120 with a minimum grade of C and RCBS 3130 with a minimum grade of C)

Term Offered: Spring, Fall

RCBS 3300 Advanced Cardiac Life Support

[1 credit hour]

American Heart Association Advanced Cardiac Life Support course designed to aid in the management of cardiopulmonary emergencies. Students must have previous knowledge of cardiac pharmacology and rhythms, and current CPR certification.

Term Offered: Spring, Fall

RCBS 4140 Integrated Clinical Practice I

[4 credit hours]

Clinical experiences in the acute care setting that requires the application of theory related to the diagnosis, treatment and management of adult, neonatal and pediatric patients with cardiopulmonary disease.

Prerequisites: (RCBS 3210 with a minimum grade of D- and RCBS 3220 with a minimum grade of D- and RCBS 3230 with a minimum grade of D-)

Term Offered: Summer, Fall

RCBS 4150 Neonatal/Pediatric Respiratory Care

[4 credit hours]

A discussion of the etiology, pathophysiology and treatment of neonatal and pediatric disorders. Laboratory exercises designed to familiarize student with neonatal and pediatric resuscitation and ventilation.

Prerequisites: (RCBS 3210 with a minimum grade of D- and RCBS 3220 with a minimum grade of D- and RCBS 3230 with a minimum grade of D-)

Term Offered: Spring, Fall

RCBS 4160 Clinical Assessment

[3 credit hours]

This course will provide the students with knowledge and enhance their critical thinking skills related to patient assessment and the development and modification of patient respiratory care plans.

Prerequisites: (RCBS 3210 with a minimum grade of D- and RCBS 3220 with a minimum grade of D- and RCBS 3230 with a minimum grade of D-)

Term Offered: Spring, Fall

RCBS 4240 Integrated Clinical Practice II

[3 credit hours]

Clinical experiences with a primary focus on advanced skills used in the management of cardiopulmonary patients of all ages in the acute and subacute care settings.

Prerequisites: (RCBS 4150 with a minimum grade of D- and RCBS 4140 with a minimum grade of D-)

Term Offered: Spring

RCBS 4510 Respiratory Care in Alternate Sites

[3 credit hours]

The delivery of care to cardiopulmonary patients outside of the acute care facility will be discussed. Standards of care in addition to the funding of this care will be investigated. Special procedures in respiratory care will be presented.

Term Offered: Spring, Fall

RCBS 4700 Research Analysis In Respiratory Care

[3 credit hours]

Review of appropriate statistical knowledge required to analyze applied/ clinical and basic published research. Includes a review of the elements of basic research design, reliability and validity, and critical review of cardiopulmonary research literature.

Term Offered: Spring, Fall

RCBS 4800 Issues In Professional Practice

[3 credit hours]

A capstone course designed to prepare the senior student for professional practice. Decision-making skills in complex clinical situations are developed through the use of clinical simulations and student case presentations.

Prerequisites: (RCBS 4140 with a minimum grade of D- and RCBS 4150 with a minimum grade of D- and RCBS 4160 with a minimum grade of D-) and RCBS 4700 with a minimum grade of D-

Term Offered: Spring, Fall

RCBS 4810 Preparation For Professional Practice

[1 credit hour]

This laboratory course is designed to complement the corequisite RCBS 4800 lecture course. Emphasis on enhancing the students' ability to integrate complex cognitive and psychomotor skills in preparation for professional practice.

Term Offered: Spring

RCBS 4990 Independent Study

[1-4 credit hours]

Independent study of specific topics and issues under the supervision of a faculty member of the department of health promotion and human performance. The student will participate in independent reading, clinical/laboratory research, field experience and other similar activities. Independent study course must have a specialty; seminar sheet required.

Term Offered: Spring