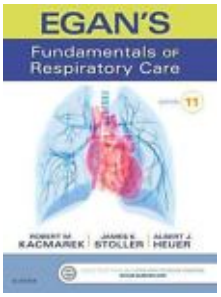
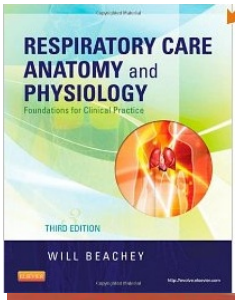
RSPT-1050 - Clinical Cardiorespiratory Physiologic Anatomy
4.00 credits

Prerequisite: Admission into the Respiratory Therapy program and BIOL-2710.
Corequisite: RSPT-1060

(formerly RSP 105) This course is designed to teach the student anatomy and physiology of the respiratory and cardiac systems with a focus on clinical application. Topics covered include anatomy and physiology, ventilation, pulmonary function measurements, gas diffusion, oxygen and carbon dioxide equilibration and transport, acid-base regulation and ventilation/perfusion relationships. (4 contact hrs) Center Campus. Fall semester only.

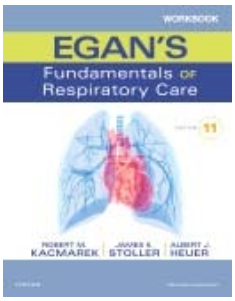


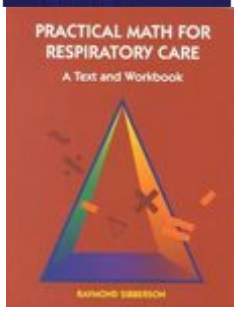


Beachey W (3rd Ed.) Mosby (2012).
ISBN: 0323078664

Kacmarek RM & Stoller JK. Egan's Fundamentals of Respiratory Care (11th Ed.) Mosby (2016).
ISBN: 0323341365

Wehrman SF. Egan's Fundamentals of Respiratory Care Workbook (11th Ed.) Mosby (2016).
ISBN: 9780323358521





Sibberson, R. Practical Math for Respiratory Care: A Text and Workbook, Mosby, (1996)
ISBN: 0-8151-8001-2

NOTE: A first-semester bundle is available through the bookstore using ISBN: 9780323470940

RSPT-1060 - Physiochemical Basis of Respiratory Therapy
3.00 credits

Prerequisite: Admission into the Respiratory Therapy program and BIOL-2710.
Corequisite: RSPT-1080

(formerly RSP 106) This course is designed to teach the student basic mathematics, physics and chemistry as it applies to respiratory therapy. Topics covered include measurement systems, mechanics, energy and matter, properties of fluids, gas laws, gas movement, solutions and drug calculations, elements and compounds, acid-base and fluid balance, and nutrition and metabolism. (3 contact hrs) Center Campus. Fall semester only.

Kacmarek RM & Stoller JK. Egan's Fundamentals of Respiratory Care (11th Ed.) Mosby (2016).
ISBN: 0323341365

Wehrman SF. Egan's Fundamentals of Respiratory Care Workbook (11th Ed.) Mosby (2016).
ISBN: 9780323358521

Sibberson, R. Practical Math for Respiratory Care: A Text and Workbook, Mosby, (1996)
ISBN: 0-8151-8001-2

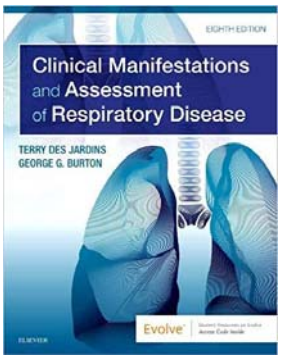
RSPT-1085 - Respiratory Therapy Procedures 1 – Lecture & Laboratory
5.00 credits

Prerequisite: Admission into the Respiratory Therapy program and BIOL-2710.

This course is an introduction to the patient care process. Topics discussed will include patient assessment, cardiopulmonary diagnostics and monitoring techniques, infection control and safety, protocols and documentation used in the practice of respiratory therapy. (2 contact hours) Center Campus. Fall semester only.

Kacmarek RM & Stoller JK. Egan's Fundamentals of Respiratory Care (11th Ed.) Mosby (2016).
ISBN: 0323341365

Wehrman SF. Egan's Fundamentals of Respiratory Care Workbook (11th Ed.) Mosby (2016).
ISBN: 9780323358521



Des Jardins, T & Burton, GC. Clinical Manifestations and Assessment of Respiratory Disease. 8th Edition, Mosby/Elsevier (2019)
ISBN: 978-0323553698

RSPT-1115 - Respiratory Therapy Procedures 2 – Lecture & Laboratory
7.00 credits

Prerequisite: Admission into the Respiratory Therapy program; and RSPT-1050 and RSPT-1060 and RSPT-1085 with grade C or better.
Corequisite: RSPT-1140, RSPT-1200, RSPT-1210

(formerly RSP 111 and replaces but not equated to RSPT-1110) This course is an orientation to the procedures, techniques, and equipment used in the practice of respiratory therapy. Topics covered include: use of protocols, oxygen therapy, airway dilation therapy, volume expansion therapy, pulmonary hygiene therapy, airway management, resuscitation and documentation. (3 contact hrs) Center Campus. Winter semester only.

Kacmarek RM & Stoller JK. Egan's Fundamentals of Respiratory Care (11th Ed.) Mosby (2016).
ISBN: 0323341365

Wehrman SF. Egan's Fundamentals of Respiratory Care Workbook (11th Ed.) Mosby (2016).
ISBN: 9780323358521
Des Jardins, T & Burton, GC. Clinical Manifestations and Assessment of Respiratory Disease. 5th Edition, Mosby/Elsevier
ISBN: 0-323-02806-3

RSPT-1140 - Cardiopulmonary Pathology
3.00 credits

Prerequisite: Admission into the Respiratory Therapy program; and RSPT-1050 and RSPT-1060 and RSPT-1080 and RSPT-1090, with grade C or better.
Corequisite: RSPT-1111, RSPT-1120, RSPT-1200, RSPT-1210

(formerly RSP 114) This course is a detailed study of disease affecting the cardiovascular and pulmonary systems. The student will study the assessment process and the role of the Respiratory Care Practitioner in developing and implementing therapist-driven protocols. The anatomic alterations, etiology, clinical manifestations, and patient care plan will be reviewed for each disease process. (3 contact hrs) Center Campus. Winter semester only.

Des Jardins, T & Burton, GC. Clinical Manifestations and Assessment of Respiratory Disease. 8th Edition, Mosby/Elsevier (2019)
ISBN: 978-0323553698

RSPT-1200 - Cardiopulmonary Pharmacology
1.50 credits

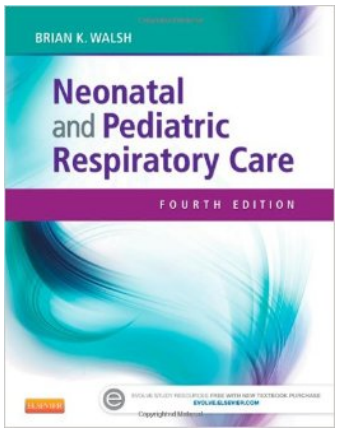
Prerequisite: Admission into the Respiratory Therapy program; and RSPT-1050 and RSPT-1060 and RSPT-1085 with grade C or better.
Corequisite: RSPT-1140

(formerly RSP 120) This course is designed to teach aerosol delivery of respiratory medications that are specifically delivered by respiratory care practitioners. An in-depth study of the autonomic nervous system will be covered to explain mechanism of drug actions. The student will learn indications, modes of delivery, dosages, and adverse reactions of respiratory medications. The student also will be introduced to critical care pharmacology. (3 contact hrs per week for the first 8 weeks) Center Campus. Winter semester only.

Colbert BJ & Kennedy BL. Integrated Cardiopulmonary Pharmacology (4th Ed.), 2016.BVT Publishing.
ISBN: 978-1-62751-619-8

RSPT-1210 - Pediatric/Neonatal Respiratory Care
1.50 credits

Prerequisite: Admission into the Respiratory Therapy program; and RSPT-1050 and RSPT-1060 and RSPT-1085 and RSPT-1200, with grade C or better.
Corequisite: RSPT-1115, RSPT-1120, RSPT-1140



(formerly RSP 121) This course will introduce the student to neonatal and pediatric respiratory care. The course covers fetal lung development, anatomy and physiology, neonatal development, pathology, CPR, acid-base monitoring, and introduction to mechanical ventilation of the newborn. (3 contact hrs per week for the second 8 weeks) Center Campus. Winter Semester only.

Beachey W (3rd Ed.) Mosby (2012).
ISBN: 0323078664

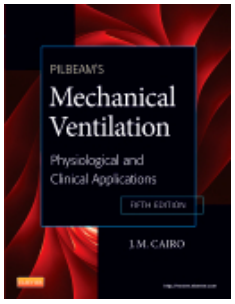
Walsh, B Perinatal and Pediatric Respiratory Care, 4th Ed.
ISBN: 978-1-4557-5319-2

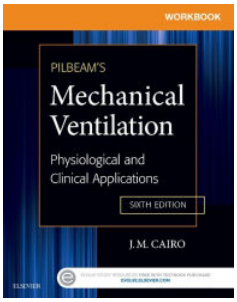
RSPT-1260 - Clinical Internship 1
4.00 credits
Course Fee: $43.00

Prerequisite: Admission into the Respiratory Therapy program; and RSPT-1115 and and RSPT-1140 and RSPT-1200 and RSPT-1210, with grade C or better.

(formerly RSP 126) This course introduces the student to clinical practice by providing 32 hours/week of clinical training in a hospital setting. Students perform basic respiratory therapy procedures learned in the procedures laboratory (RSPT-1120). The laboratory portion of the course includes an eight-hour/week workshop held at the college. The lab is designed to introduce the student to the concepts and psychomotor skills necessary to care for patients on mechanical ventilators. This course is graded on a pass/fail basis. Pass/fail grades are not included in GPA calculations. Students are required to pass this course in order to progress in the program. (40 contact hrs per week for 8 weeks) Center Campus. Spring/Summer semester only.

Clinical Internship Manual – RSPT 1260





Cairo JM. Pilbeam's Mechanical Ventilation: Physiological and Clinical Applications (5th Ed.) Mosby (2012)
ISBN 978-0-323-07207-6

Cairo JM. Workbook to Accompany Mechanical Ventilation: Physiological and Clinical Applications, (5th Ed.) Mosby (2012)
ISBN 9780323320986

Kacmarek RM & Stoller JK. Egan's Fundamentals of Respiratory Care (11th Ed.) Mosby (2016).
ISBN: 0323341365

Practical Math for Respiratory Care: A Text and Workbook by Raymond Sibberson, Mosby 1996, ISBN 0-8151-8001-2

Laboratory Manual

RSPT-2250 - Clinical Internship 2
2.00 credits
Course Fee: $43.00

Prerequisite: Admission into the Respiratory Therapy program and RSPT-1260.
Corequisite: RSPT-2330

(formerly RSP 225) This course provides clinical experience for the respiratory therapy student. The student must complete 160 hours of clinical training. Objectives focus on pulmonary function testing, critical care pharmacology, arterial blood gases, and an introduction to mechanical ventilation. This course is graded on a pass/fail basis. Pass/fail grades are not included in GPA calculations. Students are required to pass this course in order to progress in the program. (20 contact hrs per week for the first 8 weeks) Center Campus. Fall semester only.

Clinical Internship Manual – RSPT 2250/2260

RSPT-2260 - Clinical Internship 3
2.00 credits
Course Fee: $43.00
Prerequisite: Admission into the Respiratory Therapy program and RSPT-2250.
Corequisite: RSPT-2330

(formerly RSP 226) This course provides additional clinical experience for the respiratory therapy student. The student must complete 160 hours of clinical training in an affiliated hospital. Objectives focus on pulmonary function testing, critical care pharmacology, arterial blood gases, and mechanical ventilation. This course is graded on a pass/fail basis. Pass/fail grades are not included in GPA calculations. Students are required to pass this course in order to progress in the program. (20 contact hrs per week for the second 8 weeks) Center Campus. Fall semester only.

Clinical Internship Manual – RSPT 2250/2260

RSPT-2335 - Mechanical Ventilation – Lecture & Laboratory
5.00 credits

Prerequisite: Admission into the Respiratory Therapy program and RSPT-1260.
Corequisite: RSPT-2350

(formerly RSP 233) Course content reviews cardiopulmonary physiology and the effects of mechanical ventilation on the infant, pediatric, and adult patient. Topics covered include the different types of mechanical ventilators and their features, indications, initiation, assessment, maintenance, monitoring, adjustments, complications, protocols, discontinuation, and documentation. (2 contact hrs) Center Campus.

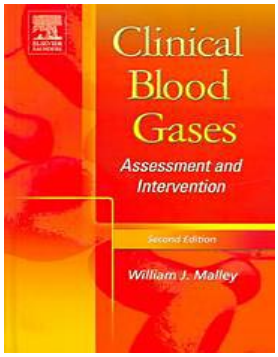
Cairo JM. Pilbeam's Mechanical Ventilation: Physiological and Clinical Applications (5th Ed.) Mosby (2012)
ISBN 978-0-323-07207-6

Cairo JM. Workbook to Accompany Mechanical Ventilation: Physiological and Clinical Applications, (5th Ed.) Mosby (2012)
ISBN 9780323320986

RSPT-2350 - Acid-Base & Electrolyte Balance & Advanced Diagnostics
3.00 credits **Course Fee: $11.00**

Prerequisite: Admission into the Respiratory Therapy program and RSPT-1260.
Corequisite: RSPT-2250

(formerly RSP 235) This theory course is designed to teach the student how to draw, analyze, interpret, and evaluate arterial/venous blood gas and electrolyte data, and make appropriate recommendations for treatment. Students also will learn how to use data obtained from non-invasive monitoring to aid in the diagnosis and treatment of pulmonary disease. (3 contact hrs) Center Campus. Fall semester only.



Malley WJ. Clinical Blood Gases: Assessment and Intervention (2nd Ed.). Mosby (2005)
ISBN: 0-7216-8422-X

Kacmarek RM & Stoller JK. Egan's Fundamentals of Respiratory Care (11th Ed.) Mosby (2016).
ISBN: 0323341365

Practical Math for Respiratory Care: A Text and Workbook by Raymond Sibberson, Mosby 1996, ISBN 0-8151-8001-2

RSPT-2360 - Clinical Internship 4
2.00 credits
Course Fee: $43.00

Prerequisite: Admission into the Respiratory Therapy program, and RSPT-2260, RSPT-2330, and RSPT-2350.
Corequisite: RSPT-2420, RSPT-2435

(formerly RSP 236) This course provides additional clinical experience for the respiratory therapy student. The student must complete 160 hours of clinical training in an affiliated hospital. Objectives focus on acid-base balance, mechanical ventilation, pulmonary function testing, electrocardiography, and hemodynamic monitoring. This course is graded on a pass/fail basis. Pass/fail grades are not included in GPA calculations. Students are required to pass this course in order to progress in the program. (20 contact hrs per week for the first 8 weeks) Center Campus. Winter Semester only.

Clinical Internship Manual – RSPT 2360/2370

RSPT-2370 - Clinical Internship 5
2.00 credits
Course Fee: $43.00

Prerequisite: Admission into the Respiratory Therapy program, and RSPT-2260, RSPT-2335, and RSPT-2350.
Corequisite: RSPT-2360, RSPT-2370, RSPT-2430

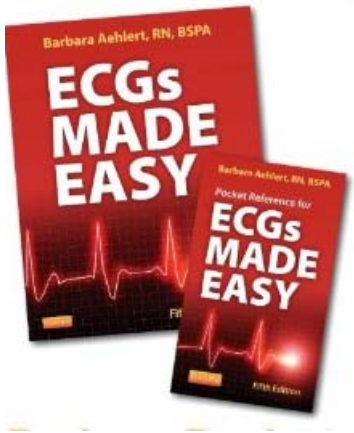
(formerly RSP 237) This course provides additional clinical experience for the respiratory therapy student. The student must complete 160 hours of clinical training in an area hospital. Objectives focus on pulmonary function testing, acid-base balance, mechanical ventilation, electrocardiology, and hemodynamic monitoring. This course is graded on a pass/fail basis. Pass/fail grades are not included in GPA calculations. Students are required to pass this course in order to progress in the program. (20 contact hrs per week for the second 8 weeks) Center Campus. Winter semester only.

Clinical Internship Manual – RSPT 2360/2370

RSPT-2420 - Advanced Concepts in Respiratory Care
3.00 credits **Course Fee: $31.00**

Prerequisite: Admission into the Respiratory Therapy program, and RSPT-2260, RSPT-2335, and RSPT-2350. *Corequisite*: RSPT-2360, RSPT-2370

(formerly RSP 242) This course is a forum for discussion of new and advanced applications in clinical practice. Topics covered include pulmonary function testing, EKGs, myocardial infarction, chest tube drainage systems, and hemodynamic monitoring. Each student will give an oral presentation on a topic of interest in Respiratory Care. (3 contact hrs) Center Campus. Winter semester only.

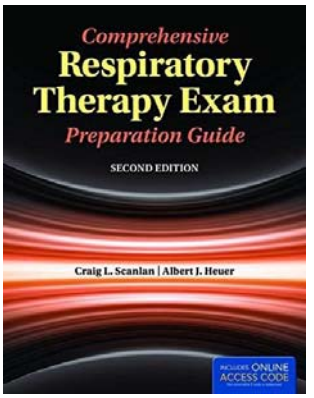


Aehlert B. ECGs Made Easy (5th Ed.) Mosby (2012)
ISBN: 0323101062

RSPT-2431 - Certification & Registry Review

2.00 credits
Course Fee: $31.00

Prerequisite: Admission into the Respiratory Therapy program, and RSPT-2260, RSPT-2330, RSPT-2340, and RSPT-2350.
Corequisite: RSPT-2360, RSPT-2370, RSPT-2420



(formerly RSP 243) This course is a comprehensive review to prepare students for the NBRC Certification and Registry Examinations. Students will become familiar with clinical simulation testing through use of computer simulations and latent imaging. NBRC Self-Assessment Examinations will be administered during this course. A program exit exam will be given at the end of the semester. (2 contact hrs) Center Campus. Winter semester only.

Scanlan CL & Heuer AJ Comprehensive Respiratory Therapy Exam Preparation Guide 2nd Ed. ISBN: 1284029034