

RESC 1530 - Foundations of Respiratory Care

Fall 2026 Syllabus, Section 01, CRN 42272,

Credit hours: 3

Instructor

Heather O'Connell

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Public Instructor Information

Instructor Title: Dr. Heather O'Connell DHA, RRT, RRT-ACCS, CPFT

Instructor Professional Qualifications: Doctorate of Healthcare Administration- Walden University- 2022; Masters Healthcare Administration- Southern New Hampshire University- 2016; Bachelors of Science- Cardiopulmonary Sciences- University of Central Florida- 2008

Instructor Office Location: Cushwa Hall 1110

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Course Description

1530. Foundations of Respiratory Care. Review of the professional scope of practice for a respiratory therapist including key organizational roles within the profession. Basic application of scientific gas laws and theories will be examined along with basic description and function of oxygen delivery equipment related to respiratory care. Includes applied anatomy and physiology of the respiratory system and basic patient assessment. 3 hour lecture. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Egan's Fundamentals of Respiratory Care (12th edition)	*Kacmarek, Stoller, Heuer (2020)	9780323082037
Required	Workbook for Egan's Fundamentals of Respiratory Care 12th Edition		978-0-323355366-7
Optional	Mosby's Respiratory Care Equipment (10th ed.)	Cairo, J.M. (2014).	

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Mon	8/24		Review of course syllabus/student handbook	
Wed	8/26	Hess CH 56	Professional Organizations	
Mon	8/31	Chapter 1- Egans	Early History of Respiratory care, Professional organizations	
Wed	9/2	Chapter #2- Egans	The profession of Respiratory Therapy	
Mon	9/7	Chapter #3- Egans	Quality, Patient Safety and Communication	uploaded student handbook uploaded policy and procedures forms

Wed	9/9	Chapter #4- Egans	Principals of Infection Control	By 9/11 upload programmatic policy Hazardous Risks Acknowledgement By 9/11 upload Physician form By 9/11 upload respiratory care essentials standards form By 9/11 upload resp care student information form
Mon	9/14	Chapter #5- Egans	Ethical and Legal implications of Practice	
Wed	9/16	Chapter #6- Egans	Physical principles of Respiratory care	
Mon	9/21	Chapter #7- Egans	E-Medicine in Respiratory Care	Review for Exam 1
Wed	9/23		Exam 1	
Mon	9/28	Chapter #9- Egans (located in section 2)	The Respiratory System	
Wed	9/30	Chapter # 10- Egans	The Cardiovascular System	
Mon	10/5	Chapter #12- Egans	Gas Exchange and transport	
Wed	10/7	Chapter #15- Egans	Regulation of Breathing	
Mon	10/12		AARC address	Discussion: Professional Code of conduct
Wed	10/14	Chapter #16- Egans	Patient Assessment	
Mon	10/19		VE, VT, VC, PEFR, NIF Bedside patient parameter instruction	
Wed	10/21		Review for Exam 2	Review for Exam 2
Mon	10/26		Exam 2	
Wed	10/28	Chapter #4 Mosby	Oxygen Devices; PPT provided	
Mon	11/2	Chapter #4- Mosby	Regulators and flowmeters; PPT provided	
Wed	11/4	Chapter #41- Egans	Storage of medical Gas therapy	
Mon	11/9	Chapter #41- Egans	Storage of medical Gas therapy Medical gas therapy	
Wed	11/11	No Classes per University Schedule		
Mon	11/16	Chapter #39- Egans	Humidity and Bland aerosol therapy	
Wed	11/18	Chapter #40- Egans	Aerosol Drug therapy	
Mon	11/23		Recognition of devices Bedside Parameters	
Wed	11/25	No Class for Thanksgiving!		
Mon	11/30	Chapter# 58- Egans	Ethics and the end of life Stress and the Health care worker	Discussion: Clinical Practice guidelines
Wed	12/2		Review/ Open Lab	
Mon	12/7		Final Exam	

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