RESC 3720 - Mechanical Ventilation 1

Fall 2026 Syllabus, Section 01, CRN 40878,

Credit hours: 2

Instructor

Tori Halavick

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Public Instructor Information

Instructor Title: Tori Halavick MSRC, RRT, RRT-ACCS
Instructor Professional Qualifications: Master of Respiratory Care: Youngstown State 2019; Bachelor of Science in Respiratory Care: Youngstown State 2015
Instructor Office Location: Cushwa 2630
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Course Description

3720. Mechanical Ventilation 1. Basic theory and application of mechanical ventilation in critical care areas. Two hours lecture. Prereq.: Acceptance into the respiratory care program. Coreq.: RESC 3720L. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Mechanical Ventilation. Physiological and Clinical Applications, 7th Edition	Cairo, J.M. Pilbeams	9780323551274
Required	Workbook for Mechanical Ventilation. Physiological and Clinical Applications, 7th Edition	Cairo, J.M. Pilbeams	9780323551267

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	Introduction to MV I Basic Terms and Concepts Chpt 1 Cairo	Review syllabus Intro to MV 1	CH 1 Homework 8/25 CH 2 Homework 8/28 CH 3 Homework 8/28
Mon	8/31	Chpt. 4, 5, 6 and 7 Cairo	Establishing the Need for MV Setting the Ventilator and Mode Ventilator Settings/Alarms	CH 4 Homework 9/1 CH 5 Homework 9/4
Mon	9/7	No Class		
Mon	9/14	Chpt. 4, 5, 6 and 7 Cairo	Establishing the Need for MV Setting the Ventilator and Mode Ventilator Settings/Alarms	CH 6 Homework 9/15 CH 7 Homework 9/18
Mon	9/21	Chpt. 8 and 9 Cairo	Monitoring MV Initial Patient Assessment Graphics/Waveforms	Quiz 1 CH 8 Homework 9/22 Terms Assignment 9/23 CH 9 Homework 9/25
Mon	9/28			Exam 1 CH 10 Homework 9/30

Mon	10/5	CH 13 and 14, Cairo	ARDS and Ventilator Settings	CH 12 Homework 10/5 CH 13 Homework 10/7 CH 14 Homework 10/9
Mon	10/12	CH 16, 17, 18 Cairo	Extrapulmonary Effects of MV Troubleshooting and Problem Solving	CH 16 Homework 10/12 Quiz 2 10/14 CH 17 Homework 10/14
Mon	10/19	CH 44-48 Egans	Respiratory Failure and the need for Support Effects of Positive Pressure MV on Lung Mechanics	CH 18 Homework 10/19
Mon	10/26	CH 19 Cairo CH 49 Egans	Noninvasive Positive Pressure Ventilation	CH 19 Homework 10/26
Mon	11/2	CH 19 Cairo CH 49 Egans	Noninvasive Positive Pressure Ventilation	Quiz 3 Due by 11/4 at midnight
Mon	11/9			Exam 2
Mon	11/16		Capnography/Capnometry	
Mon	11/23	CH 15 Cairo	Sedatives, Analgesics, Paralytics	CH 15 Homework 11/23
Mon	11/30	CH 15 Cairo	Sedatives, Analgesics, Paralytics Review for Final	
Mon	12/7			FINAL EXAM FRIDAY 12/11 1030-1230

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.