



South Portland, Maine 04106

Respiratory Therapy

Title: Respiratory Care Senior Seminar

Catalog Number: RESP 250

Credit Hours: 3

Total Contact Hours: 45

Instructor: Karen McDonald MS, RRT-NPS, RPFT

Office Hours: Monday 2:00 to 3:30 pm, Wednesday 10 am to 12 noon, and by appointment

Office Location: HSC 205 D

Contact Information: kmcDonald@smccme.edu

Course Syllabus 2017

Course Description

This course is designed as a continuation of the Clinical Mechanical Ventilation course resulting in in-depth study and care of the critically ill patient. The senior seminar course is designed to examine the theoretical aspects of providing respiratory care in high-risk situations to include intensive care units (ICU), cardiopulmonary emergencies, disaster management, rapid response situations, and patient transport (land/air between hospitals and within a hospital). Students will develop patient care plans using evidence-based or clinical practice guidelines. Students will explore current topics related to respiratory care and critical care medicine to include without limitation; ethics, health literacy, patient education, patient safety and medical advances.

Prerequisites – RESP-200, RESP-210, RESP-220, RESP-225

Corequisite - RESP 275

Course Objectives

After successfully completing the course, the student will be able to:

- Perform a complete assessment of critically ill patients' oxygenation, ventilation, and hemodynamic status and develop an appropriate respiratory care plan.
- Describe appropriate infection control strategies implemented in the ICU.
- Discuss medical ethical dilemmas such as end of life decision making, terminal wean, and organ donation in the ICU.

- Describe psychological and physical stress factors that affect both patient and staff in the ICU.
- Describe the basic principles of extracorporeal membrane oxygenation (ECMO) and Mechanical Circulatory Assist (MCS) devices in the ICU.
- Discuss the role of the respiratory therapist in patient transport within the hospital, by air and by land.
- Explain the composition, roles, and purpose of rapid response teams.
- Identify and provide examples of the Joint commission's National Patient Safety Goals as they apply to respiratory care.
- Categorize the role of the respiratory therapist in disaster preparedness and disaster management.
- Define patient education and related terms including health literacy.
- Identify the major components of the patient education process and explain how education can be incorporated into asthma management, Chronic Obstructive Pulmonary Disease (COPD) management, pulmonary rehabilitation, discharge planning, and smoking cessation.
- Develop patient education materials.
- Discuss respiratory and critical care trends and advances expected in the next decade.

Course Requirements

Presentations: Students will prepare and present two group presentations. The first will be a newborn cardiac disorder and will include a patient care plan. The second will be a patient education topic. This topic may include a care plan as appropriate. The goal of this presentation is to create and present a patient education product. Finally, students will also choose a respiratory care topic and make an individual presentation of their chosen topic. This topic will be chosen based on individual analysis of the NBRC matrix with the goal of enhanced preparation for the NBRC TMC exam. Education brochure and presentation grading rubrics will be provided.

Examinations: Students will complete two NBRC style examinations covering hemodynamics, disorders seen in the ICU setting, and topics covered by student and guest speakers.

Service Learning: Students are expected to complete a minimum of 4 hours of service learning during the course of the program. To earn the credit for service learning an essay describing the community service experience is required. Students must provide documentation/verification of their activity. A grading rubric will be provided.

In the event a student is unable to document or perform the service learning activity an alternative assignment is available. Students can read "When Breath Becomes Air" by Paul Kalanithi. Write an essay addressing two aspects of the book. First, what was learned about how the main character approached his diagnosis of stage IV cancer and his impending death. Second, discuss how the author viewed the role of

developing medical skills and caring for patients including his understanding that “good intentions were not enough”.

Student Evaluation and Grading

Exam 1 – 20%

Newborn Cardiac Disorder Presentation – 10%

Topic Presentation – 15%

Exam 2 – 20%

Service Learning Experience – 15%

Group Education Brochure & Presentation – 20%

Text, Tools and / or Supplies

J.M. Cairo, Pilbeam’s Mechanical Ventilation Physiological and Clinical Applications 6th edition and Workbook

R.M. Kacmarek, Egan’s Fundamentals of Respiratory Care 10th edition and workbook

D. C. Shelledy, Respiratory Care Patient Assessment & Care Plan Development

Attendance Policy:

Attendance, punctuality, and participation in all classes of this course are essential to achieving the course objectives. Course grade will be reduced by one full letter for each absence beyond three. Lateness by more than 10 minutes will result in dropping one half letter grade for each lateness beyond three. Exams are to be taken as scheduled. Missed exams may be made-up with a 5% penalty if the student contacts the instructor *prior* to missing the exam. Make-up exam format will be altered and the exam will be given during final exam week.

Cell Phone Policy:

Cell phones can be left on and should be silenced upon entering class. No texting in class.

Course Evaluation:

Students complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal. Students can access the course evaluations beginning one week before the end of classes. The deadline for submission of evaluations occurs Monday at 5 PM following the last day of the class. You will receive an email to your student email account when course evaluations are available.

ADA Statement (Americans with Disabilities Act):

Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call (207) 741-5798. If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the Disability Services Coordinator, Sandra Lynham, who can be reached at 741-5923. Further information about services for students with disabilities and the accommodation process is available upon request at this number. Course policies about online testing are modified to suit each individual's accommodations.

SMCC Pay-For-Print Policy:

Each semester students receive a \$20 printing credit. The balance resets at the end of the semester and any remaining credits are removed. The College's pay-for-print system monitors printing on all printers (including those in general access labs, library printers, Tutoring Services, Campus Center Lounge and technology labs). Be sure to log OUT of the system when you've finished your printing, to prevent unauthorized access to your account. Students can check the number of pages they have printed by using the Printing Balance tool available on SMCC computers (located in the lower right corner of the screen, near the clock). Departments with work study students who need to print documents for the department should contact the Help Desk at 741-5696 to have a special account set up. To find ways to reduce your printing charges, please go to the IT Help tab on My SMCC. If you have questions about the pay-for-printing policy or your printing charges, please contact the Help Desk at 741-5696 or send an e-mail to helpdesk@smccme.edu.

Refunds

Print jobs are eligible for a refund in the event of mechanical or electronic error on the part of the printer, print server, or software used to submit the job. Jobs are not eligible for a refund in cases where the job was not set up correctly, was submitted multiple times, or the student is not satisfied with the result. To request a refund, please bring the offending print to the IT Department in the basement of the Ross Technology Center. Refunds will be granted in the form of a credit to the student's account.

Add-Drop Policy:

Students who drop a course during the one-week "add/drop" period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a pro-rated add/drop period. There is no refund for non-attendance.

Withdrawal Policy:

A student may withdraw from a course only during the semester in which s/he is registered for that course. The withdrawal period is the second through twelfth week of the Fall and Spring semesters and the second through ninth week of twelve-week Summer courses. This period is pro-rated for shorter-

length courses - usually 75 percent of course meeting times; please check with the Registration Office. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Registration Office. This process must be completed either in person or by using SMCC e-mail accounts.

Plagiarism Statement:

If an instructor suspects that a student has knowingly committed a violation defined in the Maine Community College System Policy on Student Grade Appeals and Academic Misconduct, the instructor has the authority to review the alleged misconduct and determine the grade that the student should receive for the assignment and the course. The instructor may assign a failing grade for the assignment or course and may require the student to complete additional work for the course. The instructor may consult with the department chair and/or the College's chief academic officer prior to making such decisions. If a student seeks to challenge an instructor's determination, the student should submit a grade appeal. Grade appeal forms are available in the Advising Office on the South Portland Campus or in the administrative offices in the Learning Commons on the Midcoast Campus. An instructor may also refer the matter to the College's disciplinary officer for review under the procedures of the MCCS Student Code of Conduct.

Topical Outline of Instruction

All dates are tentative and subject to change

January 17 – NO & HFOV, Heather Higgins

January 23, 24, 30, 31 - Hemodynamic Monitoring

February 6 – Shock

February 7 - Neuromuscular Diseases

February 13 **EXAM 1**, NBRC Topic Presentation Declaration

February 14 & 21 Cardiac Disorder Team Presentations

February 20 – No Class President’s Day

February 27 – Rapid Response and the RRT’s Role – Hannah Keaney BS, RRT

February 28 – Simulation Lab Experience (wear scrubs and name badges)

March 7 – Trauma

March 8 – Burns and Inhalation Injury

March 13, 14 – **No class Spring Break!**

March 20 - COPD New Standards - Chris Salamone BS, RRT

March 21, 27 - NBRC Topic Presentations

March 28 – Disaster Medical Assistance Teams – David Kissin BS, RRT-ACCS

April 3 – Health Literacy – Daren Rainey BS, RRT

April 4 – Education Project Planning & Nursing Lab Assistance

April 10 - Patient Transport – Patrick Underwood BS, NRP, NREMT-P, CCEMT-P

April 11 - **Exam 2**

April 17– **No class Patriot’s Day**

April 18 – Supporting Your Profession, AARC Membership & Participation – Norma Hay RRT

April 24 – Hyperkalemia RRT in Rapid Assessment & Treatment – Cheryl Dedian BS, RRT,
Cindy Pinette RRT

April 25 - Team Time

May 1- RRT Experience as Giver and Receiver of Patient Care Services – Keith Siegel MBA,
RRT

May 2 - Team Time

May 8 & 9 – **Patient Education Team Presentations**