South Portland, Maine 04106

Respiratory Therapy

Title: Critical Respiratory Care
Catalog Number: RESP 250
Credit Hours: 3
Total Contact Hours:
Lecture: 45

Instructor: Karen McDonald MS, RRT-NPS, RPFT
Office Hours: Monday & Tuesday 2 pm to 3 pm, Wednesday 10 am to 12 noon, and by appointment
Location: HSC 205 D
Contact Information: kmcdonal@smccme.edu

Course Syllabus

Course Description
This class is designed to give second-year Respiratory Therapy students insight into the organization and structure of the Intensive Care Unit; included will be discussion of the roles, relationships and stresses upon the ICU health-care team. Also discussed will be infection control in, and psychological implications of, the ICU environment. Major course emphasis will center on Hemodynamic Monitoring as well as assessment and treatment of the patient with specific pathologic conditions commonly seen in the ICU. The interrelations between organ systems and disease entities in the critically ill patient will also be discussed.

Prerequisite(s)
RESP-170, RESP-175

Course Objectives
After successfully completing the course, the student will be able to:
Describe techniques used in monitoring the ICU patient.
List indications for and hazards of hemodynamic monitoring.
Describe equipment used in hemodynamic monitoring with respect both to principles of operation and set-up and troubleshooting.
State normal values for arterial, central venous and pulmonary artery pressures.
State normal values for mixed venous oxygen saturation.
State normal values for cardiac output and index as well as systemic and pulmonary vascular resistance.
List appropriate medications used in pharmacological control of hemodynamics.
Interpret hemodynamic monitoring values for critically ill patients.
Discuss respiratory and neurologic monitoring of the ICU patient.
Describe assessment, diagnosis, treatment and prognosis of the patient with cardiopulmonary and neurologic conditions seen in the adult and pediatric ICU.
Describe appropriate infection control strategies in the ICU.
Discuss ethical issues in the ICU.
Describe psychological and physical stress factors that affect both patient and staff in the ICU.

Topical Outline of Instruction

All dates are subject to change due to weather and speaker availability.
January 19, 25, 26, February 1, 2 – Hemodynamic and ICU Monitoring
February 8 – Hemodynamic/Diagnostic Tech Role – Chris Salamone
February 9 Shock
February 15th – No class President’s Day
February 16 Exam 1 & Topic/Disease Selection
February 22 – Trauma
February 23 - Burns and Inhalation injury
February 29 - Mechanical Circulatory Support (MCS)/Extracorporeal Membrane Oxygenation (ECMO)
Arnold Benak, C.C.P.
March 1 Neuromuscular Disease – Alex Dikinson
March 7 – Rapid Response Hannah Keaney
March 8 – Simulation Practice
March 14, 15 – No class Spring Break
March 21, 22 – Pediatric Disorders
March 28 – COPD GOLD standards
March 29 – Simulation Practice
April 4 – Health Literacy Daren Rainey
April 5 – Patient Education – Team Development
April 11 – EXAM 2 & Team Project Decisions
April 12 – Disaster Management
April 13, 14, – Team Time & Disease Presentations
April 18 – No class Patriot’s Day
April 19 – Ethics
April 25, 26 & May 2, 3 – Team Time & Disease Presentations
May 9, 10 – Patient Education Projects, Team Presentations
Course Requirements

Exam 1 – February 16
Exam 2 - April 12

Topic/Disease Presentation – TBA, topic must be chosen by February 16th

Team Project Presentations – May 9 & 10, topic must be chosen by April 11th

Projects

Students will be responsible for two projects this semester. Each student will lead the class in discussion of a topic or disease common to the population of patients treated by respiratory therapists. The second project will be to design patient education materials. Students will work in teams to create patient education materials (brochure) that demonstrate an understanding health literacy. Students will present their project to the class and demonstrate how the team worked together, researched, and designed materials created. Students will use health literacy tools to design the education brochure. A rubric will be provided for grading of projects/presentations.

Student Evaluation and Grading

Two scheduled exams at 25% each. One individual disease/topic presentation 25%, one group patient education presentation 25%.

Text, Tools and / or Supplies

J.M. Cairo, Pilbeam’s Mechanical Ventilation Physiological and Clinical Applications 5th edition and Workbook
R.M. Kacmarek, Egan’s Fundamentals of Respiratory Care 10th edition and workbook
R.L. Wilkins, Respiratory Disease a Case Study Approach to Patient Care, 3rd edition

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 Phones

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

End-of-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 Syllabus Statement**

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**

**Per Page Costs**

Each semester students receive a $20 printing credit. The balance resets at the end of the semester and any remaining credits are removed. The cost varies depending upon page size and whether printing is done in black and white or color.

- **a.** There is a $0.10 per page fee for standard 8.5" by 11" black and white documents.
- **b.** The reverse sides of duplex (double-sided) documents are free.
- **c.** There is a $.50 per page fee for standard 8.5" by 11" color documents.
- **d.** There is a $.20 per page fee for 8.5" by 14" (legal) or 11" by 17" (tabloid) black and white documents.
- **e.** There is a $1.00 per page fee for 8.5" by 14" (legal) or 11" by 17" (tabloid) color documents.

Duplex charges (printing on both sides of a page) work in the following fashion: One page is $0.10, two pages are $0.10, three pages are $0.20, and four pages are $0.20, etc. The flipsides are free, but another sheet of paper is $0.10. Please be aware that a document with any color at all (when printed to a color printer) will by default be printed in color. You are responsible for setting the print job to print black and white if you do not need color. For directions, please go to the IT Help tab in My SMCC.

**How does it work?**

The College’s pay-for-print system monitors printing on all printers (including those in general access labs, library printers, the Academic Achievement Center, Noisy Lounge and technology labs). 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.

**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.

**Why is SMCC charging for printing?**

The pay-for-print system is an effort to control escalating printing costs. Charging for printing helps offset the increasing cost of supplies and encourages students to conserve resources. 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 email to helpdesk@smccme.edu.

Be sure to log OUT of the system when you’ve finished your printing, to prevent unauthorized access to your 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. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Enrollment Service Center (no phone calls, please). The designation “W” will appear on the transcript after a student has officially withdrawn. A course withdrawal is an uncompleted course and may adversely affect financial aid eligibility. Failure to attend or ceasing to attend class does not constitute withdrawal from the course. There is no refund associated with a withdrawal.

**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.