Course Description:

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisites: RSPT 1161

Text, References and Supplies:


Data Arc

Student Learning Outcomes:

Upon successful completion of the course the student will:

1. Demonstrate airway care.
2. Demonstrate tracheostomy (trach) care.
3. Perform bedside ventilator assessment
4. Identify and analyze ventilator waveforms
5. Perform bedside cardiopulmonary assessment
6. Prepare a Bird Mark VII ventilator
7. Prepare a Bennett PR-2 ventilator
8. Prepare a Siemens 900 C ventilator
9. Prepare a Drager ventilator
10. Prepare an Infant Star ventilator
11. Prepare a Sechrist IV 100B ventilator
12. Explain mechanical ventilator modes
13. Calculate A-aDO₂
14. Calculate flow
15. Calculate I:E ratio
16. Calculate shunt
17. Calculate Vd/Vt
18. Calculate PaCO₂ change
19. Calculate FiO\textsubscript{2} needed
20. Apply ventilator therapy to a variety of patients
21. Display ventilator patient weaning on a variety of patients
22. Describe chest x-ray generation
23. Discuss methodology for chest x-ray interpretation
24. Identify normal and abnormal chest x-rays
25. Describe special radiologic techniques
26. Describe perfusion scan and ventilation scan
27. Demonstrate neonatal respiratory care techniques
28. Use neonatal respiratory equipment
29. Describe the principles of monitoring intracranial pressure and the techniques involved
30. Describe the principles of chest tube drainage and the techniques involved
31. Discuss the principles of counter pulsation and the techniques involved
32. Describe the principles of hemodynamics and the techniques involved
33. Perform General & Intensive Care respiratory procedures (list on the clinical V grade summary; but not limited to list)

Student Contributions, Responsibilities and Class Policies:

Each student will spend at least 8 hours per week preparing for class. Attendance is critical in this class. All clinical performance and behavior will be considered academic.

Evaluation of Students:

A. Tasks completed as per competency evaluations 50%
B. Participation 10%
C. Behavior 10%
D. Case Studies 10%
E. Oral and/or written exams* 20%

Total 100%

*Case studies must be complete or receive an incomplete grade (I). The following semester the incomplete case study will be due, in addition to the new case studies. The highest grade to replace the incomplete will be a “C”. If in that following semester there are any case studies not completed, the grade of “I” will become an “F” and the student will not be able to continue. *Student must pass clinical testing with 70% or better on oral exams; and/or 80% or better on written exams.

Americans with Disabilities Act (ADA):
Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the Shep Grinnan as soon as possible. Mr. Grinnan’s office is located in the Scharbauer Student Center Building. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation.

Division Information: Health Sciences

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