



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2007-2008

NEXT REVIEW: 2012-2013

STATUS:

COURSE TITLE: Selected Topics in Respiratory Care

COMMON COURSE NUMBER: RET 2934

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN

CLOCK HOURS: 16

Lecture: 16

Lab:

Clinic:

Other:

PREREQUISITE(S): RET1833L, RET 2418, RET 2414, RET 2414L

COREQUISITE(S): RET 2503, RET 2834L, RET 2714

PRE/COREQUISITE(S):

COURSE DESCRIPTION

The course will present information on recent changes in technology and therapeutic modalities used in respiratory care. The student will participate in literature review activities to enable them to remain knowledgeable of ongoing changes in the profession after they become respiratory care practitioners.

UNIT TITLES

1. Current concepts in critical care ventilator management
2. Review and application of new therapeutic modalities in critical care
3. Conduct a literature search on current topics in respiratory care

EVALUATION:

The student may be evaluated but not limited to the following:

Grading policy: There are 200 possible points which shall be awarded as follows:

- | | |
|------------|---|
| 80 points | Literature Search and presentation of an assigned current topic in respiratory care |
| 120 points | Attendance and punctuality. |

Grade assignments: A - 188 - 200
B - 168 - 187
C - 150 - 167
D - 130 - 149
F - Less than 160

A topic will be assigned on the first day of class. Student is to perform a search of the medical literature on the assigned topic (do not quote magazine articles) and present the findings in a written review and a short oral presentation. To receive any credit for this project it must be on time, thorough, complete and meet with the instructor's approval. The search must include at least five related articles/abstracts that are quoted and summarized.



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GENERAL EDUCATION Competencies and Skills *:

Please highlight in font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Write clearly and coherently	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	
10. Collaborate with others to achieve common goals.	
11. Research, synthesize and produce original work	
12. Practice ethical behavior	
13. Demonstrate self-direction and self motivation	
14. Assume responsibility for and understand the impact of personal behaviors on self and society	
15. Contribute to the welfare of the community	

* General Education Competencies and Skills endorsed by '05-'06 General Education Task Force



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RET 2934

UNITS

Unit 1: Current concepts in critical care ventilator management

General outcomes:

1.0 The student should be able to utilize state of the art ventilators to manage patients on life support.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 1.1 Describe how and why nitric oxide affects pulmonary vasculature
- 1.2 Demonstrate the ability to initiate nitric oxide therapy on a patient on mechanical ventilation
- 1.3 Describe the strategies used for lung recruitment in low compliance lungs
- 1.4 Demonstrate the ability to perform a pulmonary stress test and evaluate the data obtained from the test.
- 1.5 Describe adaptive support ventilation. Compare this modality of ventilation to conventional ventilation techniques

Unit 2: Review and Application of New Therapeutic Modalities in Critical Care:

General outcomes:

2.0 The student should be able to utilize on-line and printed material to maintain knowledge of ongoing changes in Respiratory Care specifically and medicine in general.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 2.1 Create a data base of published articles and on-line resources which review changes and trends in medicine in general and in respiratory care in particular.
- 2.2 Utilize professional periodicals in respiratory care to access current trends in the field.
- 2.3 Participate in journal activities, providing input on new technology and therapies.
- 2.4 Incorporate information regarding new procedures and concepts into daily clinical practice.



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Unit 3 Conduct a Search of The Medical Literature on Current Topics in Respiratory Care

General Outcome:

3.0 The student shall be able to utilize the medical databases to research a current topic in respiratory care

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

3.1 Utilize Medline database by the National Library of Medicine

3.2 Distinguish between a magazine and a medical journal

3.3 Evaluate abstracts and full articles in print

Order the full text of the article from the learning resource center when necessary

Present a summary of the researched topic.

Participate in a group discussion about the topic