RES 241T.01: Perinatal and Pediatric Respiratory Care

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Course Number and Title: RES 241 Perinatal and Pediatric Respiratory Care

Date Revised: Fall 2006

Semester Credits: 2

Contact Hours Per Semester: 30
  Lecture hours per week: 3
  Lab hours per week: 0

Prerequisite: RES 260T, RES 265T

Faculty:
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Relationship to Program: This course offers the students the opportunity to develop fundamental knowledge of assessing and treating the pediatric patient. The course includes techniques of resuscitation and mechanical ventilation.

Course Description: Study of perinatal and pediatric respiratory care with emphasis on assessment, resuscitation and mechanical ventilation of the neonate and pediatric patient. The theory of NRP and PALS will be presented. Students will participate in a neonatal assessment seminar.
Student Performance Outcomes:
Upon completion of this course, the student will be able to:
1. Complete the requirements of the first 18 hours workshop in Spokane.
2. Describe how to recognize abnormal transition of the fetus from uterine to extraterine life and to intervene appropriately.
3. Describe how to assess the fetus and newborn infant, explaining maternal and fetal factors that may lead to adverse outcomes.
4. Discuss the principles of mechanical ventilation of the neonate and pediatric patient.
5. Complete NRP certification requirements.
6. Complete PALS certification requirements.

Methods of Instruction:
Lecture, reference reading, group discussion and demonstrations.

Student Assessment Methods and Grading Procedures:

Exams
Unit Exams 70%
Assignments 10%
Pop Quizzes 5%
Final Exams 15%

Grading Scale
A = 4.0 95–100%  B- = 2.67 80-83%  D+ = 1.33 67-69%
A- = 3.67 90-94%  C+ = 2.33 77-79%  D = 1.00 64-66%
B+ = 3.33 87-89%  C = 2.00 74-76%  D- = .067 60-63%
B = 3.00 84-86%  C- = 1.67 70-73%  F = 0.00

Students in the Respiratory Care Program must have a "B-" final grade in order to progress within the program.

Test questions will be based on unit objectives. Unit objectives are to be used as study guides.

Attendance:
Class attendance is an integral part of this course. The test dates are included in this syllabus. Pop quizzes will be given randomly throughout the semester. Failure for the quizzes will result in a zero begin recorded and used in computing your average.

Other Policies:
Academic Misconduct:
All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.
All students need to be familiar with the Student Conduct Code. The Code is available for review online at [http://www.umt.edu/SA/VPSA/index.cfm/page/1321](http://www.umt.edu/SA/VPSA/index.cfm/page/1321).

Disabilities:
Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please speak with me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator.

Cell Phones/Pagers:
Due to an increasing number of students who own and use cell phones and pagers, it has become necessary to institute a policy regarding these tools during class times. As you are aware, these tools are distracting to an entire class. However, some students require them for business which allows them to further their education. Please follow these guidelines:
1. If the cell phone/pager is not business or emergency related, please turn it off.
2. Use the vibrating option on your pager.
3. Do not listen to the messages in class. Leave class quietly.
4. **CELL PHONES AND PAGERS MUST BE TURNED OFF DURING EXAM AND CLASS PRESENTATIONS.**

Seating:
Many classrooms have chairs to accommodate persons with disabilities. These chairs will display the international disability symbol and are assigned to a particular student. Please refrain from using these chairs or making adjustments to them unless the chair is assigned to you. If you think you may have the need for a specific chair, please contact Disability Student Services. Thank you for your cooperation.

Test/Quiz Makeup:
Make-up exams and lab experiences will only be given under extreme circumstances and then only if:
   a) permission is granted in advance by the course instructor, or
   b) a written excuse is provided by a medical doctor. The burden of proof is on the student, so you must document and prove a justifiable absence. Not following this procedure prior to the exam will automatically result in a zero score being recorded.
Missed tests need to be made up within one week of the original date given. You are responsible for contacting the Academic Support Center to schedule the make-up. Failure to do so will result in a **ZERO** grade for the missed test.

The faculty senate guidelines concerning the issuance of incomplete grades will be followed. Attention to critical dates such as P/NP. drop, etc. is in the responsibility of the student. Students wishing to drop the class after the drop deadline will need a documented justifiable reason for doing so. Dropping the class for fear of bad grade or to protect a GPA are **not** justifiable reasons. The principles embodied in the **Student Handbook Code** will be adhered to in this course.
c) It is the student’s responsibility to see that homework is turned in on the day it is due. If it is not in the instructor’s mailbox by 4:00 p.m. on the date due, a grade of zero will be used in computing the student’s average.
Required Texts:

**Title:** Neonatal Resuscitation Textbook, 4th Ed.
**Author:** Kattivenkel, et al
**Publisher:** American Academy of Pediatrics

**Title:** Clinical Assessment in Respiratory Care, 3rd Ed.
**Author:** Wilkins, et al
**Publisher:** Mosby

**Title:** PALS Provider Manual
**Author:** Hazinski, et al
**Publisher:** American Heart Association
Instructor Expectations:
Because the course has a great deal of new material, it is very important to study consistently. Some suggestions for better study are:

1. Read the unit objectives at the beginning of each chapter - - find what you are expected to learn.
2. Read the material before class - - this will help you understand the lecture.
3. Look up definitions to words you do not understand.
4. Attend every class and take notes - - but do not try to write everything down. Concentrate on concepts.
5. Review your notes as soon after class as possible - - make sure you can read them!
6. Study notes, material and compare with objectives.
7. Study no more than one hour before taking a short break.
8. Relate information to prior learning/examples to develop a “picture” in your mind.
9. Ask instructor for clarification as needed. Study regularly in a quiet place; set study hours and KEEP them.
10. See your instructor when you think you need help. Your instructor wants you to succeed and will have some ideas which should help.
11. Plan some time for fun and relaxation – stress management.
12. Review for unit exams and finals will be made easier by frequent review of chapter content.
13. Be in class and don’t miss pop quizzes.

Test Schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Exam/Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>Sep 5</td>
<td>NRP Certification, Written and Mega Code</td>
</tr>
<tr>
<td>Monday</td>
<td>Sep 11</td>
<td>Unit I test</td>
</tr>
<tr>
<td>Friday</td>
<td>Sep 15</td>
<td>Unit III test</td>
</tr>
<tr>
<td>Monday</td>
<td>Dec 11</td>
<td>PALS Certification, Written and Mega Code</td>
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Course Outline:
I. Assessment of Fetal Growth and Development.
II. Labor and Delivery.
III. Neonatal Resuscitation.
IV. The First Eighteen Hours.
V. Mechanical Ventilator of the Neonatal and Pediatric Patient.
VI. Pediatric Advanced Life Support
VII. Assessment of Respiratory Distress in the Pediatric Patient

Weekly Plan
Classes will be lecture and hands on labs. Students are required to pass NRP and PALS certifications by the end of the class. Attendance at the "First Eighteen hours: workshop is mandatory. If not accomplished, the student will not be able to graduate.

Student Learning Activities:
1. Read assigned material.
2. Attend class and take notes
3. Do exercises in text.
4. Take and review unit test.
5. Complete all NRP requirements.
6. Complete all PALS requirements
7. Attend 18 Hours workshop