JEFFERSON COLLEGE
COURSE SYLLABUS

RCP200
Respiratory Care Specialties
3 Credit Hours

Prepared by:
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Elizabeth Check, Dean, Career and Technical Education
Mary Beth Ottinger, Division Chair
I. CATALOGUE DESCRIPTION
   A. Prerequisite – RCP155 Airways, RCP150 Cardiopulmonary Pathophysiology, RCP160 Arterial Blood Gases, RCP140 Respiratory Care Clinical I, and RCP145 Respiratory Care Skills Lab II; all courses must be completed with a grade of “C” or better.

   B. Credit hour award - 3

   C. Description – This course will present information relevant to: The theory application and equipment for the purpose of diagnosing respiratory pathologies through the measurement of lung gas volumes, capacities, and flows. This course also includes evaluation through stress (exercise) testing, cardiac stress testing, bronchoscopy, and polysomnography. Students will study specialized procedures including but not limited to chest tubes, bronchoscopy, and invasive cardiac monitoring. This course will also explore the field of respiratory care in the home patient environment and pulmonary rehabilitation. Specialty areas that are explored include: rehabilitation, critical care, geriatrics, ground & air transport, laboratories, quality control, research, asthma education, disaster planning, education, and management. (F)

II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

<table>
<thead>
<tr>
<th>Expected Learning Outcomes</th>
<th>Assessment Measures</th>
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<tr>
<td>Describe diagnosing respiratory pathologies through the measurement of lung gas volumes, capacities, and flows</td>
<td>Class activity</td>
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<td>Homework/case studies</td>
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<td>Summative Exam</td>
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<td>Demonstrate specialized knowledge of home care patients and pulmonary rehabilitation</td>
<td>Class activity</td>
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<td>Homework/case studies</td>
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<td>Summative Exam</td>
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<td>Describe differences applicable to geriatrics, ground &amp; air transport, laboratories, quality control, research, asthma education, disaster planning, education, and management</td>
<td>Class activity</td>
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<td>Summative Exam</td>
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<tr>
<td>Demonstrate specialized procedures of chest tubes, bronchoscopy, and invasive cardiac monitoring</td>
<td>Class activity</td>
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<td>Homework</td>
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<td>Summative Exam</td>
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<td>Perform and evaluate case studies of stress (exercise) testing, cardiac stress testing, bronchoscopy, and polysomnography</td>
<td>Class activity</td>
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<td>Homework</td>
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<td>Summative Exam</td>
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III. OUTLINE OF TOPICS:
   A. Diagnosing respiratory pathologies through pulmonary function testing
      1. Theory application and equipment
      2. Lung gas volumes
      3. Capacities
      4. Flows
5. Spirometry
6. Interpretation

B. Evaluation of patients through
   1. Stress (exercise) testing,
   2. Cardiac stress testing
   3. Bronchoscopy
   4. Polysomnography.

C. Specialized procedures
   1. Chest tubes
   2. Bronchoscopy
   3. Invasive cardiac monitoring.

D. Specialized fields of study
   1. Home patient environment
   2. Health care reimbursement
   3. Pulmonary rehabilitation
   4. Critical care
   5. Geriatrics
   6. Ground & air transport
   7. Laboratories and quality control
   8. Research and scientific literature
   9. Asthma education and community health
   10. Neonatal and pediatric
   11. Disaster planning
   12. Education and health promotion

IV. METHOD(S) OF INSTRUCTION
   A. Lecture
   B. Readings from textbook
   C. Supplemental handouts
   D. Classroom activities
   E. Participation in active learning by computer programs, games, and internet based activities.
   F. Peer interactive activities and discussions in classroom and online

V. REQUIRED TEXTBOOK


   Kacmarek, Robert M. Dimas, Steven Mack, Craig W. (2005), The Essentials of Respiratory Care, St. Louis, MO, Elsevier Mosby
VI. REQUIRED MATERIALS
   A. Course homepage available through jeffco.edu
   B. A computer with internet access (available through the Jefferson College Labs).
   C. Paper, notebooks, pens, pencils with erasers.

VII. SUPPLEMENTAL REFERENCES
   A. Class handouts
   B. Videos

VIII. METHOD OF EVALUATION (basis for determining course grade)
   A. Classroom activities   10%
   B. Homework             20%
   C. Summation examinations-comprehensive 60% - Final is worth at least 30% of total grade
   D. Attendance           10%
   E. Grading scale:
                            A=92-100%
                            B=86-91.9%
                            C=80-85.9%
                            D=70-79.9%
                            F=0-69.9%

IX. ADA STATEMENT
   Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library; phone 636-797-3000, ext. 169).

X. ACADEMIC HONESTY STATEMENT
   All students are responsible for complying with campus policies as stated in the Student Handbook. Any student who cheats or plagiarizes will be subject to dismissal from the respiratory program and will be referred to the college for disciplinary action. (see College website, http://www.jeffco.edu/jeffco/index.php?option=com_weblinks&catid=26&Itemid=84)