



## **RESP 290B - Computer Simulations in Respiratory Care Course Outline**

**Approval Date:** 02/13/2020

**Effective Date:** 08/14/2020

### **SECTION A**

**Unique ID Number** CCC000456224

**Discipline(s)** Respiratory Technologies

**Division** Health Occupations

**Subject Area** Respiratory Care

**Subject Code** RESP

**Course Number** 290B

**Course Title** Computer Simulations in Respiratory Care

**TOP Code/SAM Code** 1210.00 - Respiratory Care Therapy/Therapist\* / A -  
Apprenticeship

**Rationale for adding this course to the curriculum** Updating SLOs, course content and methods of evaluation. Updating textbooks.

**Units** 1

**Cross List** N/A

**Typical Course Weeks** 18

### **Total Instructional Hours**

#### **Contact Hours**

**Lecture** 0.00

**Lab** 0.00

**Activity** 42.00

**Work Experience** 0.00

**Outside of Class Hours** 21.00

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**Total Contact Hours** 42

**Total Student Hours** 63

**Open Entry/Open Exit** No

**Maximum Enrollment** 30

**Grading Option** Letter Grade Only

**Distance Education Mode of Instruction** On-Campus Hybrid

## SECTION B

**General Education Information:**

## SECTION C

### Course Description

**Repeatability** May be repeated 0 times

**Catalog Description** This course prepares students for the National Board for Respiratory Care's Registry Examination, which requires specialized knowledge in solving patient management problems in a branching logic format. Students will practice with web-based clinical simulations, identify their strengths and weaknesses, and develop a study plan to prepare for this exam.

**Schedule Description**

## SECTION D

### Condition on Enrollment

**1a. Prerequisite(s):** *None*

**1b. Corequisite(s)**

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**1c. Recommended:** *None*

**1d. Limitation on Enrollment:** *None*

## SECTION E

### Course Outline Information

#### 1. Student Learning Outcomes:

- Students will perform a minimum of 10 computer-based clinical simulations, identify their strengths and weaknesses based on the results, and develop a plan for improvement.
- Students will take two secure self-assessment exams (the Therapist Multiple Choice Exam and the Clinical Simulation Exam), identify their strengths and weaknesses, and develop a plan for improvement.

#### 2. Course Objectives: Upon completion of this course, the student will be able to:

- Differentiate the functions of the Respiratory Care Board (RCB), the National Board for Respiratory Care (NBRC), American Association for Respiratory Care (AARC), California Society for Respiratory Care (CSRC), and the Committee on Accreditation for Respiratory Care (CoARC).
- Access and analyze information from the professional websites regarding Respiratory Care licensure and credentialing.
- Compare and contrast the two primary Respiratory Care examinations; content, format, number of items, passing scores, etc.
- Research the optional examinations and the value in obtaining these credentials by interviewing practitioners and department managers.
- Analyze one's strengths and weaknesses by researching the results of the computer lab simulations and self-assessment examinations.
- Develop a study plan for each of the two primary examinations, including areas of focus and a specific timeline.
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#### 3. Course Content

- A. Respiratory Care Organizations
  - a. Respiratory Care Board (RCB)
  - b. National Board for Respiratory Care (NBRC)
  - c. American Association for Respiratory Care (AARC)
  - d. California Society for Respiratory Care (CSRC)
  - e. Committee on Accreditation for Respiratory Care (CoARC)
- B. Required and Recommended Examinations in the Respiratory Care Profession
  - a. Therapist Multiple Choice (TMC)
  - b. Clinical Simulation Exam (CSE)
  - c. Other credentials available for Respiratory Care Practitioners
  - d. Value of obtaining optional professional credentials
- C. Self-Assessment Examinations
  - a. Available on National Board for Respiratory Care (NBRC) website
  - b. Napa Valley College's computer lab simulations
- D. TMC and CSE examination detailed content outlines
  - a. Self-evaluation
  - b. Personalized study plan – topics and timeline
  - c.

#### 4. Methods of Instruction:

**Discussion:**

**Lab:**

**Other:** Group activities ? Students collaborate to solve simulated patient problems. Class discussions - Students discuss correct/incorrect answers on sample exams. Lab activities ? Students perform simulated respiratory therapy techniques.

**5. Methods of Evaluation:** Describe the general types of evaluations for this course and provide at least two, specific examples.

#### Typical classroom assessment techniques

Quizzes -- Examples: Compare and contrast the three primary examinations. Include the following: Describe the exams' format. Discuss the three "difficulty" levels. Explain three strategies for taking the branching logic exam.

Simulation -- Students will take 35 Clinical Simulations complete them with a 75% or greater score.

Additional assessment information:

Final grade will be based on student's performance on quizzes, practice examinations, and purchased self-assessment examinations.

Letter Grade Only

**6. Assignments:** State the general types of assignments for this course under the following categories and provide at least two specific examples for each section.

#### A. Reading Assignments

Students will complete two chapters of their textbook per week, and will take the pretests and posttests in each chapter.

Examples:

1. Read chapters 1 and 2 in your textbook, take the pre- and post-test for each chapter, and identify areas of strength and weakness.

2. Visit the NBRC website (nbc.org) and answer the following questions:

1. How many years after graduation do you have to take the RRT exam? (1 point)
2. If someone does not take the RRT exam within the time limit, what must they do to

regain their eligibility? (2 points)

3. How many questions on the TMC exam? How many "pretest" questions are included? (2 points)

4. How many clinical simulations on the CSE? How many "pretest" simulations are included? (2 points)

B. Writing Assignments

1. Students will purchase and complete the self-assessment exams and pass with a 75% or greater.

2. Students will access the free RRT exams on the National Board for Respiratory Care (NBRC) website and pass with a 75% or greater.

C. Other Assignments

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## 7. Required Materials

### A. EXAMPLES of typical college-level textbooks (for degree-applicable courses) or other print materials.

Book #1:

Author: Sills, James R.

Title: The Comprehensive Respiratory Therapist Exam Review

Publisher: Mosby Elsevier

Date of Publication: 2016

Edition: 6th

### B. Other required materials/supplies.

- Secure self-assessment exam - Therapist Multiple Choice (TMC)
- Secure self-assessment exam - Clinical Simulation Exam (CSE)