

Bergen Community College
Division of Health Professions
Department of Respiratory Therapy
Respiratory Care Clinical Externship III

Semester and Year: Summer I

Course and Section Number: RSP-226-001, Respiratory Care Clinical Externship III

Meeting Times and Locations:

Instructor:

Office Location:

Phone:

Departmental Secretary:

Office Hours: via appointment

Email Address:

Course Description

Lecture hours, laboratory hours, and credits: 0 lectures, 40 hours/week labs, 2 credits

Co-requisites: RSP-210, RSP-220, RSP-222, and RSP-225

Course Description: This course gives the student an opportunity to develop their clinical skills of airway management, cardiopulmonary resuscitation, aerosol therapy, arterial puncture and analysis, oxygen therapy, hyperinflation therapy and patient evaluation rounds. In addition, the student will begin learning basic mechanical ventilation concepts. Students will have exposure to the ICU's during this rotation.

Student Learning Objectives: As a result of meeting the requirements in this course, at a minimum proficiency of 78%, the student will:

General course objectives

1. Perform and enhance their skills in:
 - a. Arterial blood gas puncture
 - b. Adult CPR
 - c. Endotracheal extubation
 - d. Endotracheal suctioning
 - e. Airway / cuff management
 - f. Nebulizer treatments
 - g. Physical assessment of the chest
 - h. Incentive spirometry therapy
 - i. Bedside pulmonary assessment skills
 - j. Oxygen therapy
 - k. ECG interpretation
2. Demonstrate and perform the proper hand-washing technique.
3. Demonstrate proper isolation procedures with an understanding of the specific isolation category and cause.
4. Discuss and observe various equipment cleaning / sterilization processes, such as pasteurization, gas sterilization, and chemical disinfection/sterilization.

5. Observe and/or assist with various equipment cleaning / sterilization procedures, including disassembling and reassembling equipment.
6. Properly demonstrate initiation, application, and / or change of simple oxygen delivery devices during actual patient use.
7. Demonstrate proper use of bland aerosol devices and related delivery of therapeutic equipment.
8. Construct, justify, and describe the goals, indications, contraindications, side-effects, and hazards for various types of therapy administered to patients. This will include oxygen therapy, humidification therapy, bland aerosol, and sustained maximal inspiration.
9. Identify and properly demonstrate the various sustained maximal inspiration (SMI) devices that each hospital utilizes.
10. Demonstrate proper administration of sustained maximal inspiration (SMI) therapy including discussing the indications, contraindications, and hazards /side-effects.
11. Perform proper suctioning procedures and assist with patient assessment and oxygenation during the procedure.
12. Demonstrate the correct procedure for aerosol medication therapy administration.
13. Demonstrate proficiency in MDI administration including use of a spacer device.
14. Demonstrate proficiency in peak flow administration.
15. Describe the steps of an intubation procedure (both oral and nasal). Including indications, hazards / side-effects, important anatomical features, patient monitoring techniques, and methods for evaluating the adequacy of the established airway.
16. Perform the various tasks performed on patients in need of routine care in a non-critical care area.
17. Perform regular cleaning, sterilization, and preventive maintenance of respiratory care equipment.
18. Perform emergency treatment of patients in need of trauma care, CPR, and routine care of patients prior to admission to a hospital.
19. Assemble and demonstrate proficiency in the utilization of a functional CPAP & Bi-PAP device capable of delivering a variable, monitored, and accurate FIO₂ via:
 - a. Mask CPAP / BiPAP
 - b. Nasal prongs

Specialty rotation objectives

20. Physician Rounds:

The student will intern with the program's medical director for the clinical day. Student must be in full clinical uniform.

Simulation Lab:

The student's will be expected to interact with one another during a simulation case studies for the day in the college's simulation lab. The student's must be in full clinical uniform while in the simulation lab.

Course Content

This course will be presented and delivered at specific hospital sites. Each site can offer different exposures to the different patients and equipment used in respiratory care.

Special Features of the Course

MoodleRooms is used to enhance the interaction with the student.

Anecdotal Notes:

Each student is required to complete, and review with his or her instructor, an anecdotal note form for each day in clinical into the DataArc system. Each clinical instructor must validate these notes in the DataArc system

Uniforms:

Special uniform (such as scrubs) maybe required for a specialty rotation, the department that the rotation is with will provide it for you. You must wear your regular uniform to clinical, even if you expect to wear another type of uniform for the entire day. Changing rooms will be available for you.

Course Texts and/or Other Study Materials

Texts:

- Kacmarek R. Egan's Fundamentals of Respiratory Care, 11th ed. Elsevier: ISBN: 978-0-323-34136-3
- Computer software: competency system by: DataArc

Reading Assignemnts

- Acid-Base Balance
- Interpretation of Clinical Laboratory
- Interpreting the Electrocardiogram
- Analysis and Monitoring of Gas Exchange
- Airway Pharmacology
- Airway Management
- Emergency Cardiovascular Life Support
- Aerosol Drug Therapy

Research, Writing, and/or Examination Requirement(s)

Competency Evaluations:

Prior to performing a competency in the clinical setting, the student must have successfully completed the competency in the laboratory. The clinical instructor will then evaluate individual competencies performed by the student in the hospital and enter them into the DataArc system. The competency evaluation for each task must be attained at a satisfactory level. For this portion of the final course grade, the student will be graded on completing a minimum of 78% of assigned competencies to receive full credit.

A student who has successfully achieved a competency will be expected to repeat the competency, when necessary, at an acceptable level during subsequent clinical experiences.

Oral Presentations:

Students may be required during the semester to present an oral case study to the medical director, any clinical staff members, and their fellow students. Case study outline form can be found in the media library to be used as reference.

Special Topics Reports (due):

Students will complete a topic report paper outlining a specific area in respiratory care. The topics will be assigned by the course instructor. The paper will be graded on several areas including (see grading rubric posted on Moodle):

- Organization

- Quality and completeness of information investigated
- Citations
- Complexity level of the research
- Grammar and writing style

The topic paper must be typed, use standard font and text size, and include citation page. Students can utilize *The Writing Center* at the college to assist in preparing the paper. The paper must be uploaded to Moodle using *Turnitin Assignments* module.

Means of Assessment

Students will be assessed in the following methods: clinical instructor evaluations entered via the DataArc system, procedural competency evaluations via DataArc system, special topics report, and a final written exam in multiple choice format via MoodleRooms.

Grading Policy

Grade Computation:

The clinical instructor will evaluate individual competencies performed by the student. The competency evaluation for each procedure must be attained at a satisfactory level within a prescribed time period.

Evaluation of Clinical Performance:

Each student will have an evaluation of overall clinical performance at the end of each clinical rotation. Each day the clinical instructor will complete a Daily Evaluation form located in DataArc. The average of these evaluations will be the basis for part of the final course grade.

Grading Format:

Instructor Evaluations	50%
Special Topics Reports	15%
Competencies	10%
Final Comprehensive Exam.	25%

Grade Determination:

A	Student must excel with theoretical knowledge; excel in laboratory and Clinical performance areas	93 - 100
B+	Student must 'show distinction with superior theoretical knowledge in Laboratory / practical performance	88 – 92.9
B	Student must show above average knowledge and an above average standard of achievement in laboratory / practical performance areas	83 – 87.9
C+	Student must meet and attain the standard of achievement with reasonable theoretical knowledge and laboratory / practical skills	78 – 82.9
F.	Student fails to meet acceptable standards in classroom or laboratory / practical performance areas	<78
N	Incomplete	Student has not completed Course requirements

Late work or assignments:

Late work and make-up examinations will be penalized with a grade being no greater than 78%. Late work will be submitted as soon as possible; makeup exams will be completed at the end of the semester.

Attendance Policy

BCC Attendance Policy:

All students are expected to attend punctually every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor for each section of each course. These will be established in writing on the individual course outline. Attendance will be kept by the instructor for administrative and counseling purposes.

Course Attendance Policy:

No absence exceptions for any reason. For every absence in any given semester there will be a total of 5 points taken off the student's final clinical grade.

Departmental Policy Statements

1. Acceptable quality of work and mature behavior are expected from every student at all times. Students are regarded as professionals and are expected to conduct themselves accordingly.
2. High standards of professional performance demand that students maintain good academic progress throughout their course of study in the program.
3. Students demonstrating chronic tardiness or absenteeism will be placed on academic warning or probation, and may be subjected to termination from the program.
4. Absence from a class during a scheduled exam will be subject to the policy of the instructor for that specific course. If the student is going to miss a scheduled exam it is expected that the student will contact the instructor ahead of time by e-mail or phone to the department office.
5. All students are required to adhere to the policies and procedures of the school as outlined in the college catalogue.
6. Additional department policies are located in the Student Policies and Procedures Manual.

Student and Faculty Support Services

1. The program faculty maintain office hours for counseling and are available to provide tutorial assistance to students.
2. Students must make appointments in advance to meet with the respective instructors.
3. Students may also obtain assistance from the College Tutoring Center. Appointments must be made in advance through this center.
4. The College has a personal counseling center for those students who may need personal assistance. Appointments are made directly through this center.
5. Any problems, concerns, or questions should be directed to the course instructor or the student's advisor.
6. Statement on Civility:
 - a. Refer to the Standards of Conduct Subsection found in the Student Judicial Affairs Policies & Procedures Section found in the Student Handbook.
7. Academic Integrity
 - a. Refer to the Academic Integrity Subsection; found in the Academic Regulations, Academic Policies Section found in the Academic Policies & Regulations Area of the College Catalog
8. Other possible College, Divisional, or Departmental Policy Statements to be referenced
 - a. ADA statement.
 - i. Students with documented disabilities who require accommodations by the American with Disabilities Act (ADA) can request support services from the Office of Specialized Service of Bergen Community College. <http://www.bergen.edu/Pages1/Pages/5175.aspx>
 - b. Sexual Harassment statement.
 - c. Statement on acceptable use of BCC technology.

d. Statement on the purpose and value of faculty office hours.

9. Student and Faculty Support Services

a. List support services, e.g., the Writing Center, the Math Lab, the Tutorial Center, Online Writing Lab (OWL), Office of Specialized Services, etc.

10. BCC Library

a. The Sidney Silverman Library is committed to providing a quiet, welcoming, respectful atmosphere conducive to study and research in an environment that is comfortable, clean, and safe. The use of the library will be beneficial in providing resources on researching topic information, citation styles, finding current articles among many other media services available.