

Bergen Community College
Division of Health Professions
Respiratory Care Program

RSP- 225 Respiratory Care Clinical Externship II

Course Information

Semester and Year:

Course and Section Number: RSP-225-001

Meeting Times and Locations:

Instructor:

Office Location:

Departmental Secretary:

Office Hours:

Contact information:

Course Description

This course provides the appropriate setting for the connection of practicing and refining skills obtained throughout the course of the initial Clinical experience. The student is provided the opportunity to administer medication through various types/modalities of therapy. They will also perform cardiopulmonary resuscitation, perform airway care and management, infection control procedures, patient assessments, apply non-invasive ventilation therapy, and evaluate pertinent data in the patient's chart.

Credits: 2 credits (16 hours clinical)

Prerequisites: RSP-110, RSP-119, and RSP-121

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

Student Learning Outcomes

As a result of meeting the requirements in this course the student will:

1. Assess and evaluate the patient's condition and formulate a care plan.
2. Assemble equipment and perform procedures safely with minimal supervision.
3. Independently demonstrate the required clinical competencies.
4. Interprets and communicates information with all team members.

5. Explain to a patient the procedure being performed.
6. Demonstrate integrity and professional qualities and accept responsibilities.

Means of Assessments

A student in this course is assessed through:

1. Completing required competency check offs that are used to assess the student's affective, cognitive, and psychomotor skills.
2. A final written exam that contains multiple choice and calculation questions that are used to assess cognitive competency.
3. A practical exam that is used to assess affective, cognitive, and psychomotor domains.
4. Summative evaluations assessing a student's preparation, knowledge, psychomotor skills, professionalism, and organization.

Course Content

This course will be presented and delivered at specific hospital sites. Each site offers exposure to various equipment and procedures used in respiratory care.

Anecdotal Notes:

- A student is required to complete a daily journal which is entered into the Clinical Trac system.

Clinical learning outcomes

1. Demonstrate proficiency in previous clinical course competencies and clinical learning outcomes.
2. Assess cough effectiveness, suggest alternative methods of airway clearance, and demonstrate proficiency in the instruction of the proper coughing techniques.
3. Recognize indications, contraindications, hazards, and side effects for chest physiotherapy.
4. Demonstrate proficiency in the administration of chest physiotherapy.
5. Recognize indications, contraindications, hazards, and side effects for incentive spirometry therapy.
6. Demonstrate proficiency in the administration of incentive spirometry therapy.
7. Demonstrate proficiency in administration of airway clearance devices (e.g., MetaNeb therapy, Flutter valve, Acapella, PEP therapy).
8. Identify equipment utilized for airway care.
9. Assemble the equipment utilized for airway care.
10. Describe the functions of airway management equipment.
11. Explain the importance and the procedures for maintaining a patent airway.
12. Demonstrate proficiency in the airway management equipment maintenance of a patent airway.
13. Describe the steps of an intubation procedure, including indications, hazards, side effects, anatomical features, patient monitoring techniques, and methods for evaluating the airway.

14. Describe the steps of an extubation procedure, including indications, hazards, side effects, anatomical features, patient monitoring techniques, and methods for evaluating the airway.
15. Demonstrate proper cuff inflation procedures.
16. Demonstrate tracheostomy care.
17. Demonstrate proficiency with an in-line and sterile suctioning procedure.
18. Attending cardiopulmonary arrests to observe techniques employed to resuscitate a patient.
19. Demonstrate proficiency in ventilation via mask, ET tube, or tracheostomy tube.
20. Demonstrate proficiency in arterial blood sampling.
21. Demonstrate proficiency in arterial blood analysis.
22. Interpret arterial blood gas results.

Course Texts Assessment Materials

Required

- Kacmarek R. Egan's Fundamental of Respiratory Care, 12th ed. Elsevier, 2021 ISBN 13: 978-0-323-51112-4
- Computer software: competency system by Clinical Trac

Exams, Checkoffs, and Evaluation Requirements

- Competency check offs are used to determine a student's level of knowledge and skill. Each checkoff must be satisfactorily completed. The competency evaluation for each procedure must be attained at a satisfactory level within the prescribed time. 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. 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 80% 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.
- The written final exam is used to assess comprehension of the clinical learning outcomes of the course.
- The practical exam will evaluate psychomotor and cognitive skills that require higher-level critical thinking skills.
- Each student will have an evaluation of clinical performance at the end of each clinical rotation. The average of these evaluations will be part of the final course grade.

Grading Policy

Assessment	Percentage
Instructor Evaluations	50%

Competency checkoffs	15%
Practical Exam	20%
Written Exam	15%

Grade Scheme

Letter	Description	% Range
A	The student must show superior theoretical knowledge and demonstrate superior laboratory skills.	93 – 100
B+	The student must merit high-quality classroom work and theoretical knowledge and demonstrate high-quality laboratory skills.	88 – 92.9
B	The student must show above-average knowledge and laboratory skills.	83 – 87.9
C+	The student meets the standard of achievement with reasonable knowledge and demonstrates reasonable laboratory skills.	78 – 82.9
F	The student fails to meet minimum course standards.	<78

Missed Exams and Late Work

Missed exams and late work will be penalized with a grade no greater than seventy-eight percent (78%). Clinical competency checkoffs cannot be reconciled because the evaluation method is participatory and will be recorded as zero (0). Exams are to be completed before the end of the semester. A grade of zero (0) will be recorded if an exam is not completed before the end of the semester.

Academic Integrity Policy and Attendance Policy

Academic Integrity

Academic dishonesty is a serious violation of BCC policy and personal ethics and will be treated as such if the reason for suspicion should arise. Students should be careful to avoid plagiarism, falsification, and compliance. Academic integrity is vital to an academic community and for fair evaluation of student assessments. All assessments submitted must be your own, completed in accordance with the college's academic policies and the student code of conduct. You may not engage in unauthorized collaboration or make use of any artificial intelligence (AI) composition systems. Academic dishonesty also includes cheating on examinations. Refer to the BCC student code of conduct, student handbook for additional information, and the statement on plagiarism (<https://catalog.bergen.edu/content.php?catoid=4&navoid=163#academic-dishonesty>).

BCC Attendance Policy

All students are expected to attend 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 maintained by the instructor for administrative and counseling purposes.

Course Attendance Policy

Students are allowed one (1) absence per semester. Any absences after that will have a 5-point deduction from the final grade. The absence should be scheduled ahead of time and the instructor should be notified so that they can plan accordingly. See the department policy and procedure manual for details on the course attendance and lateness policy.

Departmental Policy Statements

- Acceptable quality of work and mature behavior is always expected from every student. Students are regarded as professionals and are expected to conduct themselves accordingly.
- High standards of professional performance demand that students maintain good academic progress throughout their course of study in the program.
- Students demonstrating chronic tardiness or absenteeism will be placed on academic warning or probation and may be subjected to termination from the program.
- 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 email or phone the department office.
- All students are required to adhere to the policies and procedures of the school as outlined in the college catalog.
- Additional department policies are in the Student Policies and Procedures Manual.
- Remediation
 - The program's defined process for addressing deficiencies in a student's knowledge, skills, professional behavior, and competencies so that the correction of these deficiencies can be ascertained and documented. The program must conduct these evaluations equitably and with sufficient frequency to facilitate prompt identification of learning deficiencies and the development of a means for their remediation within a suitable time frame.
 - The remediation process is initiated by faculty when any student is at risk of failing a course due to difficulty accomplishing course objectives and / or requirements. At risk behaviors include academic deficiency (non-passing quiz, examination, laboratory competency), lack of clinical competency (not abiding by policy and procedures, unsafe behavior), and lapses in professional conduct.

Support Services

- The program faculty maintains office hours for counseling and is available to provide tutorial assistance to students.
- Students must make appointments in advance to meet with the respective instructors.
- Students may also obtain assistance from the [College Tutoring Center](#). Appointments must be made in advance through this center.
- The College has a [personal counseling center](#) for those students who may need personal assistance. Appointments are made directly through this center.

- Any problems, concerns, or questions should be directed to the course instructor or the student's advisor.
- Statement on Civility
 - Refer to the [Standards of Conduct](#) Subsection found in the Student Judicial Affairs Policies & Procedures Section found in the Student Handbook.
- Academic Integrity
 - Refer to the Academic Integrity Subsection; found in the [Academic Regulations](#).
- Other possible College, Divisional, or Departmental Policy Statements to be referenced.
 - ADA statement
 - 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 located in room L-115 of the Pitkin Learning Center. (www.bergen.edu/oss)
 - Sexual Harassment statement
 - Statement on acceptable use of [BCC technology](#).
- Support Services
 - [Writing Center](#)
 - [Math Lab](#)
 - [Online Writing Lab](#) (OWL)
 - [Office of Specialized Services](#)
- BCC Library
 - 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, and finding current articles among many other media services available.

Weekly Assignments / Objectives

Week	Topic / Activity
1	Review the assessment and evaluation of patients with various clinical conditions. Review aerosol / humidity therapy that are used to deliver medication and bland aerosol to artificial airways. Review proper isolation procedures.
2	Discuss and review means of assessing cough effectiveness, suggest alternative methods of airway clearance, and demonstrate proficiency in the instruction of the proper coughing techniques.
3	Evaluate pulse oximetry results and make appropriate recommendations regarding results. Begin arterial punctures.
4	Review the rationale, initiation, application, and patient assessment of oxygen delivery devices. Determine the FiO ₂ of various oxygen delivery systems. Discuss air-oxygen calculations.
5	Review various aerosolized medications including normal dosage, drug category, hazard / side effects, action, indications, contraindications, and limitations. ABG review – respiratory and metabolic acid-base status.
6	ABG review – oxygenation status Demonstrate proficiency in drug administration via aerosol and MDI therapy.
7	Review and demonstrate administration of chest physiotherapy and incentive spirometry therapy. Discuss and review mucous clearance adjuncts. <i>Practical exam</i>
	Spring break
8	Review and observe ECG recording. Review assessment of oxygen delivery devices, O ₂ content, and A-a DO ₂ calculations.
9	Continue to practice ECG interpretation. Begin patient application of non-invasive ventilation.
10	Review of respiratory and metabolic acid-base status. Continue to demonstrate application and modification of non-invasive ventilation.
11	Review competencies from current and prior semesters.
12	Review competencies from current and prior semesters.
13	Application of prior procedures performed.
14	Application of prior procedures performed.
15	<i>Final written exam</i>

Note to Students: This course outline is tentative and subject to change, depending upon the progress of the class.

Competency Topics from Clinical Trac

These competencies are required to be completed or reevaluated this semester. It is the responsibility of each student to complete the competencies listed below.

Competency		Optional
B.02 Arterial Puncture	C.17 High Flow Nasal Cannula	A.22 MetaNeb System
A.03 Continuous Bland Aerosol Therapy	F0.1 Isolation	A.06 MDI instruction-patient teaching
A.10 Chest Physiotherapy (CPT or PDP & V)	A.19 Artificial Airway Suction (Closed Suction System)	A.11 Vibratory PEP (via Acapella®, EzPAP®, Vest, et al)
A.14 Cuff Management (Artificial Airways)	F.10 Patient assessment	C.13 Manual Ventilation Mask / Endotracheal Tube
A.13 Airway Suctioning (Exposed Catheter Technique)	A.05 Nebulized Medication Therapy	C.11 Secure Endotracheal Tube
C.10 Extubation	A.20 Tracheostomy Care	
F0.4 Hand washing	C.22 Adult Manual Ventilation with Transport	

All students are required to purchase protective eyewear (goggles) and to wear masks when performing tasks where splashing of fluids may occur, such as suctioning their patients.