

Bergen Community College
Division of Health Professions
Paramedic Science

PAR 205 Paramedic Clinical Concepts III

Date of most recent syllabus revision: New Course

Course typically offered: Spring Semester

Syllabus last reviewed by: BCC General Education Committee _____ Date: _____
Ad Hoc Committee on Learning Assessment
Curriculum Committee _____ Date: _____

Basic Information About Course and Instructor

Semester and Year Summer U + III 2015
Course and Section Number PAR 2XX-001
Meeting Times and Locations: Wednesday 8:30 – 12:30 Meadowlands Campus
Instructor: TBD
Office Location: TBD
Phone: TBD
Department Secretary: TBD
Office Hours: TBD
Email Address: TBD

Course Description

2 Lecture 0 lab 2 Clinical Total 3 credits

PAR-205 Paramedic Clinical Concepts III is designed to review materials covered by the National Standard Curriculum for the Paramedic. Emphasis is placed on validation of knowledge and skills through didactic review, skills lab performance, computer simulation and practice testing. Current trends in pre-hospital care will be reviewed. Upon course completion, students will be sufficiently prepared to sit for the paramedic licensure examination. Lecture [2.00], Clinical [2.00]. Prerequisite[s]: PAR-200, PAR-201, PAR-202, PAR-203, PAR-204. Co-requisite[s]: PAR-206, PAR-207.

Paramedic Program Core Competencies:

A. Ethics and EMS Structure

- A1. Exhibit a professional code of conduct with personal and professional integrity.
- A1. Provide compassionate care to all populations while respecting cultural differences.
- A3. Comply with all state and federal regulation/laws for an entry-level paramedic.

B. Patient Assessment and Skills

- B1. Utilize a systematic assessment to determine appropriate modalities for medical and trauma patients of all ages while prioritizing interventions needed to improve patient outcomes.
- B2. Demonstrate skill proficiency in all entry-level psychomotor skills, utilizing them when clinically appropriate and at the correct time to improve patient outcomes.
- B3. Function as a member of the paramedic team by using effective communication and proper behavior that promotes customer service and efficient care.

C. Safety and Personal Wellness

- C1. Correctly identifies potential hazards to promote a safe environment for self, co-workers, patients and bystanders.
- C2. Uses critical thinking skills to properly manage and diffuse stressful environments.
- C3. Identifies personal stress and utilizes stress management techniques to ensure physical and emotional health.

Student Learning Objectives:

As a result of meeting the requirements in this course, students will be able to:

Rapid Sequence Intubation/Induction

Integrate Rapid Sequence Induction into a complex patient assessment and correctly perform the skill within the assigned time limit and acceptable state standards.

Airway and Breathing

Implement effective airway and breathing management in complex patient cases using the correct methods and techniques as well as demonstrating cognitive competency.

Cardiology

Implement effective airway and breathing management in complex patient cases using the correct methods and techniques as well as demonstrating cognitive competency.

Medical

Implement effective airway and breathing management in complex patient cases using the correct methods and techniques as well as demonstrating cognitive competency.

Trauma

Implement effective airway and breathing management in complex patient cases using the correct methods and techniques as well as demonstrating cognitive competency.

OB/GYN/Pediatrics

Implement effective airway and breathing management in complex patient cases using the correct methods and techniques as well as demonstrating cognitive competency.

Operations

Implement effective airway and breathing management in complex patient cases using the correct methods and techniques as well as demonstrating cognitive competency.

Issues and Trends in Paramedicine

Understand current issues and trends impacting pre-hospital care both regionally and nationally.

Terminal Competency

Demonstrate cognitive and psychomotor competence as an entry level paramedic provider.

Instructional Resources

Available in the library and computer labs

Annals of Emergency Medicine

Journal of Emergency Medical Services (JEMS)

Journal of Accident and Emergency Medicine

New England Journal of Medicine

Pre-Hospital Emergency Care Journal

Means of Assessment

In accordance with accreditation standards, students will be provided ample feedback to allow them the ability to improve performance in cognitive, psychomotor and affective domains of learning. Assessment for this course will include feedback in the following areas written, psychomotor and behavior.

Quizzes (6)	30%
Tests (2)	10%
Affective Behavior Assessment (2)	20%
Terminal Competency Written Exam	20%
Terminal Competency Practical Exam	20%

From the BCC Distance Learning Education Website:

Partially online course: A partially online (hybrid) course (indicated by a suffix of **HY** -- eg., WRT-101-005**HY**) is a class that meets part of the time in a traditional classroom setting and the rest of the class work is done online via the Internet. Typically, a partially online (hybrid) course replaces at least one meeting time per week with online course activities through Moodle. The online work is completed within the week before the next in-class meeting, but normally does not require a student to be at their computer at a specific time of the day.

It is the responsibility of the student to login to their online or hybrid course to continue weekly discussions and submit assignments at the best time of day or night for the student, giving these types of courses flexibility not available to a regular classroom course. You must be willing to come to campus (usually once a week) because face-to-face class time is required and an attendance policy will be enforced.

Moodle Structure:

The delivery platform for this course is a hybrid format utilizing a Moodle program. Students must fully participate in both online and on campus components of the course to successfully complete the course.

The Moodle structure will provide opportunities for discussion boards, email communication, class announcements, online patient cases, and completion of tests and quizzes.

Course Menu in Moodle:

- Online Syllabus
- Course Announcements
- Forums
- Assignments
- Email
- My grades

Recommended Practice

To effectively manage this course for successful completion, you should do the following:

- Read and follow the course syllabus by adhering to the assigned dates of completion
- Read the messages under “Course Announcements”
- Follow the course calendar in Moodle
- Timely complete and submit all assignments – late assignments will not be accepted!
- Use the email communication platform to communicate with other students and the instructor.
- Actively participate in class and in online discussions

Course Content

This course will offer students the ability to gain cognitive knowledge related to patient care principles. The majority of the class will require students to work individually. Occasional group assignments may be utilized.

Special Features of the Course

Pass Rate:

The Paramedic Department pass rate is an 80%. Students are required to obtain a final average of an 80% in each core curriculum course. At the end of the semester, any student not achieving an 80% will be unable to continue in the program.

Course Texts

Aelert, Barbara. *ECGs Made Easy*, 4th Edition. 2009, Mosby JEMS (ISBN 978-0323069243)

American Heart Association. *Advanced Cardiovascular Life Support*, April 2011, American Heart Association Incorporated (ISBN – 978-1-6166-9010-6)

American Heart Association. *Advanced Cardiovascular Life Support Handbook*, April 2011, American Heart Association Incorporated (ISBN – 978-1-6166-9000-7)

American College of Surgeons. *Advanced Trauma Life Support*, 9th Edition, October 2012.

Caroline, Nancy. *Emergency Care in the Streets*, 6th Edition, 2008, Jones and Bartlett Publishing, Sudbury, Mass (ISBN – 978-0-7637-6469-2)

Walls, Ron. Manual of Emergency Airway Management, 4th Edition, 2012, Lippincott, Williams and Wilkins. (ISBN 9781451144918)

Research, Writing and Examination Requirements

Students will be required to develop patient case studies that effectively depict a common medical emergency. Requirements will include appropriate description of signs, symptoms, patient presentation, pertinent medical history, medications and/or recent surgeries. Student will present their case to group.

In addition to the program pass rate, students are required to obtain a minimum grade of 77% on all final exams. Any student not obtaining a 77% on the final exam will be unable to continue in the program.

Grading Scale

A	93-100
B+	89-92
B	85-88
C+	82-84
C	80-81
F	Below 80
N	Incomplete (course requirements not fulfilled)

Academic Conduct

The paramedic program faculty adheres to the policy statement governing academic conduct as outlined in the Bergen Community College catalog.

- Faculty may not post exam grades publicly due to privacy laws.
- Scholastic dishonesty including but not limited to plagiarism, cheating, and collusion will not be tolerated. Any student who has demonstrated any of these behaviors will be disciplined according to the Policy and Procedure Manual of the program.

Attendance Policy

Bergen Community College's attendance policy states: "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 of each course. These will be established in writing on the individual course outline."

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) requires that students meet a minimum number of didactic/lab, clinical and field internship hours. Therefore students are expected to attend all class sessions.

No make-up quizzes, tests or exams will be given. Any student who is absent for a quiz, test, or exam will receive a grade of "0".

Students will be allowed one excused absence per semester. An absence is considered excused when a student notifies the professor prior to the start of class that they will be absent. Any additional absences will negatively affect the student's grade. For each unexcused absence the final grade will reduce by 1 point. For each excused absence the final grade will reduce by 0.5 point.

Tardiness will not be tolerated. In accordance with New Jersey state regulation, an attendance sheet will be available at the beginning of the class. If a student is tardy 3 times it will be calculated as an unexcused absence.

Other College, School and/or Departmental Policy Statements

The Paramedic Program is accredited by two agencies, The Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the New Jersey Department of Health and Human Service – Office of Emergency Medical Services.

The Paramedic Department Policy and Procedure Manual will be reviewed at orientation and revisited at the start of any core courses. The manual will address specific policies required by either the state or national accrediting bodies. The purpose of the manual is to clearly outline the role and responsibility of each stakeholder in the education process; the student, the patient, the faculty, the clinical affiliate and the college. Students and faculty are expected to adhere to the policies of the program.

Student and Faculty Services

Students will be encouraged to utilize the support services offered by BCC. During the School of Health Profession orientation, these services will be highlighted. The faculty of the Paramedic Program will encourage students to access these services.

In addition, the Paramedic Program is structured to ensure the needs of the paramedic student will be met. Each squad will be assigned an adjunct faculty mentor to help facilitate their interaction positively within the program. There will be open skill labs and

simulation sessions available to allow students to access adjunct faculty for support with any learning difficulties. Peer tutors will be utilized to facilitate further success in the program.

Americans with Disabilities Act

Students who require accommodations in accordance with Americans with Disabilities Act (ADA) can request these services from the Office of Specialized Services. To learn more about the services offered at Bergen Community College, visit them at www.bergen.edu/oss.

Course Outline and Calendar

Week	Topic	Assignment
1	Course Orientation Rapid Sequence Intubation	<i>NJ State RSI Manual</i>
2	Rapid Sequence Intubation	<i>NJ State RSI Manual</i>
3	Rapid Sequence Intubation	<i>NJ State RSI Manual</i>
4	Rapid Sequence Intubation Test #1	<i>NJ State RSI Manual</i>
5	Practice Cognitive and psychomotor quiz 1 Airway and Breathing	
6	Practice Cognitive and psychomotor quiz 2 Cardiology	
7	Practice Cognitive and psychomotor quiz3 Medical	
8	Practice Cognitive and psychomotor quiz 4 Trauma	
9	Practice Cognitive and psychomotor quiz 5 OB/GYN/Pediatrics	
10	Practice Cognitive and psychomotor quiz 6 Operations	
11	Issues and Trends in Pre-Hospital Care	
12	Issues and Trends in Pre-Hospital Care	
13	Issues and Trends in Pre-Hospital Care Test #2	
14	Terminal Competency Written	
15	Terminal Competency Psychomotor	

Syllabus Subject to Change

Unit Objectives:

As a result of meeting the requirements in this course, students will be able to:

Rapid Sequence Intubation/Induction

During the RSI rotation, the paramedic student will interact in the medical simulation lab practicing the skill of RSI. Multiple scenarios will be presented in which the student must act appropriately as part of the paramedic team and assist with the accurate delivery of RSI procedure.

A New Jersey State written and practical exam will be administered. Students are required to achieve a 90 on the written assessment and perform the skill without causing harm to the simulation mannequin.

Upon successful completion of the RSI, the student shall be able to:

1. Describe the pharmacokinetics and general information of each medications used in the state protocol.
2. Based upon a specific patient scenario provided, choose the most appropriate medication.
3. Execute the RSI procedure without performing any critical actions as outlined on the skill sheet.
4. Demonstrate the required documentation related to the skill.

Airway and Breathing

1. Implement a patient care plan for proper management of Airway and Breathing difficulties.
2. Demonstrate proficiency in psychomotor skills related to Airway and Breathing management.
3. Participate with a professional demeanor that brings credibility to the paramedic profession.

Cardiology

1. Implement a patient care plan for proper management of cardiac patient care.
2. Demonstrate proficiency in psychomotor skills related to cardiac patient care management.
3. Participate with a professional demeanor that brings credibility to the paramedic profession.

Medical

1. Implement a patient care plan for proper management of medical patient care.
2. Demonstrate proficiency in psychomotor skills related to medical patient care management.
3. Participate with a professional demeanor that brings credibility to the paramedic profession.

Trauma

1. Implement a patient care plan for proper management of trauma patient care.
2. Demonstrate proficiency in psychomotor skills related to trauma patient care management.
3. Participate with a professional demeanor that brings credibility to the paramedic profession.

OB/GYN/Pediatrics

1. Implement a patient care plan for proper management of imminent birth and pediatric patient care.
2. Demonstrate proficiency in psychomotor skills related to imminent birth and pediatric patient care management.
3. Participate with a professional demeanor that brings credibility to the paramedic profession.

Operations

1. Implement a patient care plan for proper management of operations and responses to special situations.
2. Demonstrate proficiency in psychomotor skills related to operations and responses to special situations.
3. Participate with a professional demeanor that brings credibility to the paramedic profession.

Issues and Trends in Paramedicine

1. Discuss current trends impacting pre-hospital care regionally and nationally.
2. Evaluate new Emergency Medicine protocol changes.
3. Evaluate new Emergency Medicine devices.
4. Participate with a professional demeanor that brings credibility to the paramedic profession.

Terminal Competency

Student Learning Outcomes to be achieved prior to Terminal Competency

Assessment:

1. Demonstrate professionalism in all aspects of care
2. Demonstrate the delivery of a highly technical level of patient care
3. Demonstrate compassion and respect for human dignity
4. Demonstrate the ability to provide emotional support for patients and families
5. Demonstrate mastery of the following as they relate to NJAC 8:41A
6. Demonstrate medical knowledge necessary to function as an entry-level paramedic
7. Demonstrate competency in performance of all paramedic clinical skills and special procedures
8. Demonstrate knowledge of treatment protocols, including NJ state Standing Orders, NJ state medication formulary, and NJ state paramedic scope of practice
9. Formulate a field impression and implement the appropriate medical care based on that impression.
10. Develop an appropriate treatment plan for patients experiencing a critical illness or injury.
11. Perform a complete patient assessment and assign priorities of care.
12. Assess the effects of all treatments.
13. Prepare for and transport the patient to the appropriate facility.
14. Transfer patient care and provide appropriate verbal and written documentation to the receiving medical team.
15. Complete a full and accurate documentation of the call.

Clinical (in-hospital) Skills	Minimum # successful
Safely Administer Medications	25
Endotracheal Intubation	10
Live Intubation	5
Safely Gain Venous Access	50
Ventilate a Patient	10
Assessment of Newborn	3
Assessment of Pediatric Patient Toddler, Preschooler, School Aged, Adolescents	5
Assessment of Adult	40
Assessment of Geriatric Patient	5
Assessment of Obstetric Patient	5
Assessment of Medical Patient	15
Assessment of Trauma Patient	5
Assessment of Psychiatric Patient	3
Assess and Plan Rx of Cardiac Patient	5
Assess and Plan Rx of Respiratory Patient	5
Assess and Plan Rx of Syncope Patient	3
Assess and Plan Rx of Abdominal Complaint	3
Assess and Plan Rx of Altered Mental Status	3

Field Externship Skills	Minimum # successful
Safely Administer Medications	25
Live Intubation	3
Safely Gain Venous Access	50
Ventilate a Patient	3
Assessment of Newborn	0
Assessment of Pediatric Patient Toddler, Preschooler, School Aged, Adolescents	5
Assessment of Adult	100
Assessment of Geriatric Patient	10
Assessment of Obstetric Patient	0
Assessment of Medical Patient	90
Assessment of Trauma Patient	10
Assessment of Psychiatric Patient	5
Assess and Plan Rx of Cardiac Patient	20
Assess and Plan Rx of Respiratory Patient	20
Assess and Plan Rx of Syncope Patient	10
Assess and Plan Rx of Abdominal Complaint	10
Assess and Plan Rx of Altered Mental Status	10
Field Externship Team Leader	25