

# Paramedic Science (PAR)

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## Courses

### PAR-120. Paramedic Science I. 11 Credits.

LECT 120 hrs LAB 120 hrs

This course introduces the student to EMS systems and the roles and responsibilities of a paramedic. Building on the student's foundation of knowledge from program pre-requisites, this course will relate principles of human anatomy, physiology, and pathophysiology, to emergency pre-hospital care. Students will be introduced to pharmacology, medication administration, fluids and electrolytes, cardiology, and airway management. Focus will be placed on emergency topics including: cardiology, respiratory, neurology, toxicology, and psychiatric emergencies. In the skills laboratory students will demonstrate and practice patient assessment, vascular access and medication administration, and basic and advanced airway management. Skills practice and demonstration of proficiency will follow the National Highway Traffic Safety Administration paramedic curriculum and New Jersey regulations for paramedic training (N.J.A.C. 8:41-A).

**Prerequisites:** Permission of department chair

**Additional Fees:** Course fee applies.

### PAR-125. Paramedic Clinical Experience I. 2 Credits.

CLIN 90 hrs

This course serves as the first clinical experience for paramedic students providing practice of acquired skills on live patients in the hospital setting under direct supervision of a clinical preceptor. The course meets the minimum requirements as set forth by N.J.A.C.8:41A-2.5: Specific Clinical Objectives- Category I/Skills Division to provide the educational clinical experience required to prepare the student to achieve licensure as a paramedic. Specific clinical areas include interventions for advanced airway management, respiratory care, IV access, cardiac care, and cadaver lab. Clinical rotations are meant for application of learned theory and patient care skills while under the direct supervision of a clinical preceptor.

**Prerequisites:** PAR-120

**Additional Fees:** Course fee applies.

### PAR-130. Paramedic Clinical Experience II. 3 Credits.

CLIN 135 hrs

This course serves as the second clinical experience for paramedic students providing practice of acquired skills on live patients in the hospital setting under direct supervision of a clinical preceptor. The course begins the minimum requirements as set forth by N.J.A.C.8:41A-2.6: Specific Clinical Objectives- Category II/Skills Division to provide the educational clinical experience required to prepare the student to achieve licensure as a paramedic. Specific clinical areas will include ICU/CCU, Burn ICU, and psychiatric/crisis. Clinical rotations are meant for application of learned theory and patient care skills while under the direct supervision of a clinical preceptor. Must remain as a 6 week Summer II course.

**Prerequisites:** PAR-125

**Additional Fees:** Course fee applies.

### PAR-220. Paramedic Science II. 11 Credits.

LECT 120 hrs LAB 120 hrs

This course prepares the student for assessment, treatment, and care of the pediatric patient, and discusses disease-specific focused assessment and care for patients of all ages. Focus will be placed on emergency topics including: gynecology, obstetrics, neonatal care, pediatric respiratory emergencies, infectious diseases, immunology, renal system, abdominal/GI/GU, and hematology. Students will also receive instruction in response to large scale incidents, hazardous materials incidents, terrorism and disaster response. In the skills laboratory students will demonstrate and practice patient assessment, pediatric resuscitation, and emergency childbirth. High fidelity simulation will be used to provide students with practice integrating knowledge and skills acquired throughout the paramedic program. Skills practice and demonstration of proficiency will follow the National Highway Traffic Safety Administration paramedic curriculum and New Jersey regulations for paramedic training (N.J.A.C. 8:41-A).

**Prerequisites:** PAR-120

**Additional Fees:** Course fee applies.

### PAR-225. Paramedic - Clinical Experience III. 5 Credits.

CLIN 225 hrs

This course prepares the student to recognize and manage medical emergencies across the life span. Students will apply the knowledge and skills acquired in prior coursework within a variety of critical care environments. Areas of focus will include: trauma, neurology, pediatrics, labor and delivery, geriatrics, psychiatric crisis, and emergency department care. Clinical rotations and skills practice will follow the National Highway Traffic Safety Administration paramedic curriculum and New Jersey regulations for paramedic training (N.J.A.C. 8:41-A).

**Prerequisites:** PAR-130

**Additional Fees:** Course fee applies.

### PAR-230. Paramedic Clinical Experience IV. 1 Credit.

CLIN 45 hrs

This course prepares the student to recognize and manage medical emergencies across the life span. Students will apply the knowledge and skills acquired in prior coursework within the emergency department. Students will have the opportunity to synthesize the knowledge and skills acquired in prior coursework, under the guidance of nurse and physician preceptors. Clinical rotations and skills practice will follow the National Highway Traffic Safety Administration paramedic curriculum and New Jersey regulations for paramedic training (N.J.A.C. 8:41-A).

**Prerequisites:** PAR-225

**Additional Fees:** Course fee applies.

### PAR-235. Paramedic Internship-Field Experience. 10 Credits.

CLIN 450 hrs

This course provides the field internship experience required to prepare the student for certification and/or licensure as a paramedic. The field internship is completed under the guidance of paramedic preceptors, and allows the student to apply the knowledge and skills acquired in prior coursework to the pre-hospital setting. Focus will be placed on scene safety, patient assessment, formulating a field impression and treatment plan, and communicating effectively with colleagues and other healthcare providers.

**Prerequisites:** PAR-230 Paramedic Clinical Experience IV

**Additional Fees:** Course fee applies.