

## PARAMEDIC

### PAR 101 ADVANCED AIRWAY MANAGEMENT

0 Lecture 2 Lab 1 Credit Hours(s)

This lab course is designed to review basic life support airway assessment and management techniques, and develop mastery in the ability to establish and maintain a patient airway, deliver oxygen and ventilate a patient at an advanced level. The focus of this course is on the complex cognitive and psychomotor skills necessary for assessing and treating airway compromise. Student will be introduced to out of hospital pharmacological intervention and surgical airway access in the critical patient.

Prerequisite: Current NYS EMT certification, EMB 101, and BIO 115 with a grade of "C" or better.

### PAR 102 PATHOPHYS & LIFE SPAN DEV

3 Lecture 0 Lab 3 Credit Hours(s)

This is an introductory course in pathophysiology as it relates to out of hospital medicine. This course focuses on human responses to illness expressed at the physiologic, pathophysiological, experiential and behavioral levels. Human responses are examined in terms of assessments appropriate to selected problems, rationale for paramedic and medical interventions, and therapeutic effectiveness. Topics include: General Principles of Pathophysiology and Life Span Development.

Prerequisite: Current NYS EMT Certification and BIO 115 with a grade of C or better.

### PAR 106 PHARMACOLOGY & IV THERAPY

2 Lecture 2 Lab 3 Credit Hours(s)

This course is designed to introduce the paramedic student to the categories of pharmacological agents and the application of pharmacological concepts to clinical paramedic practice. Emphasis will be placed on understanding physiological drug actions. Topics include pharmacology, intravenous therapy and medication administration. The lab section covers psychomotor skills of medication administration, blood drawing and intravenous therapy. Skills include phlebotomy, intramuscular and subcutaneous injections, intravenous cannulation, intravenous drug administration, inhalation administration, and sublingual drug administration.

Pre-Requisites: Current NYS EMT Certification, EMB 101 with a grade of "C" or better.

Co-Requisites: PAR 101

### PAR 108 PARAMEDIC PREP AND OPERATIONS

3 Lecture 1 Lab 3 Credit Hours(s)

An entry level course designed to orient the Paramedic student to the requirements of the Paramedic Curriculum and to expose the student to various field operations and procedures. The laboratory section allows for hands-on supervised practice of topics covered. Topics covered:

Orientation to the Curriculum, Research in EMS, Roles and Responsibilities of the Paramedic, Medical/Legal issues, The Well Being of the Paramedic, Illness and Injury Prevention, Ethics, Therapeutic Communications, Incident Command, Rescue Awareness and Operations, Vehicle Operations, Tactical EMS and Crime Scene Awareness, Hazardous Materials Awareness, Disaster Response, and Wilderness EMS.

Prerequisites: Current NYS EMT Certification and BIO 115 and EMB 101, both with a grade of C or better.

### PAR 120 CLINICAL I

0 Lecture 8 Lab 2 Credit Hours(s)

This clinical course is designed to accompany the Pathophysiology and Pharmacology and Advanced Airway Courses. Clinical rotations focus on the development of triage skills, recognition of disease pathology and progression, intravenous therapy, blood drawing and medication administration skills.

Pre-Requisites: Current NYS EMT Certification and EMB 101 with a grade of C or better. Pre- or Co-Requisite: PAR 106 with a grade of C or better.

### PAR 201 TRAUMA

2 Lecture 2 Lab 3 Credit Hours(s)

This course introduces the paramedic student to specific pathophysiology, assessment and management techniques for trauma patients. Topics include mechanism of injury, hemorrhage and shock, soft tissue trauma, burns, head and facial trauma, spinal trauma, thoracic trauma, abdominal trauma, musculoskeletal trauma and special considerations. The lab section teaches psychomotor skills of the management of the trauma patient. Skills include, trauma patient assessment, airway management of the trauma patient.

Prerequisite: PAR101, PAR102, and PAR106 with a grade of C or better.

### PAR 203 CARDIOLOGY AND PULMONOLOGY

3 Lecture 2 Lab 4 Credit Hours(s)

This course covers the specific pathophysiology, assessment and management of the respiratory and cardiac systems. Psychomotor skills included are cardiac monitoring, defibrillation, cardioversion, transthoracic pacing, cardiac emergency management and cardiac arrest management.

Prerequisite: PAR 101, PAR 102, and PAR 106 all with a grade of C or better. Co-requisites: PAR 201 and PAR 205.

### PAR 205 MEDICAL EMERGENCIES I

4 Lecture 0 Lab 4 Credit Hours(s)

This course covers specific pathophysiology, assessment, and management techniques for common medical conditions encountered in the field. Topics include: Neurology, gastroenterology, urology, endocrinology,

toxicology, allergies and anaphylaxis, hematology, infectious and communicable diseases. Special patient populations and circumstances are also addressed; acute interventions in the home care patient, abuse and assault, behavioral and psychiatric disorders, environmental conditions, and the challenged patient.  
Pre-Requisites: PAR 102, PAR 106 both with a grade of "C" or better.

#### PAR 206 PATIENT ASSESSMENT

2 Lecture 2 Lab 3 Credit Hours(s)  
This course is designed to integrate the technique of patient assessment for various chief complaints, starting with initial assessment of the patient through treatment modalities. Topics include: Culture of Safety, History taking, techniques of physical examination, scene size-up, initial assessment, history and physical exam, differential diagnosis, on-going assessment, and difficult communication. The lab section teaches the psychomotor skills of patient assessment, incorporating all advanced level skills along with proper communication and documentation..  
Pre-Requisites: PAR 201, PAR 203, PAR 205 all with a grade of "C" or better.  
Pre- or Co-Requisite: PAR 209  
Co-Requisite: PAR 240

#### PAR 209 MEDICAL EMERGENCIES II

2 Lecture 2 Lab 3 Credit Hours(s)  
This course focuses on the pathophysiology, assessment techniques and treatment modalities for illness and injury in the area of gynecology, obstetrics, neonates, pediatrics and geriatrics. Complex cognitive theory and psychomotor skills that are necessary for the practice of professional out of hospital emergency care are covered in the lecture and lab component of this course.  
Pre/Co-Requisites: PAR 205 with a grade of C or better.  
Co-Requisite: PAR 230

#### PAR 220 CLINICAL II

0 Lecture 8 Lab 2 Credit Hours(s)  
This clinical course is designed to follow the Advanced Airway Management course (PAR 101) and accompany the Cardiology and Respiratory (PAR 203), Trauma (PAR 201), and Medical Emergencies I (PAR 205) courses. Clinical rotations focus on the development of psychomotor skills and integrative skills.  
Pre-Requisites: PAR 120 with a grade of  $\frac{2}{3}$ C<sub>2</sub> or better.  
Co-Requisites: PAR 201, PAR 203, PAR 205.

#### PAR 230 CLINICAL III

0 Lecture 8 Lab 2 Credit Hours(s)  
This clinical course is designed to accompany or follow the Medical Emergencies II course. Clinical rotations focus on treatment of special patient populations and

special clinical situations and reinforcement of previous clinical lessons learned.  
Pre-/Co-requisite: PAR 203 and PAR 220 with a grade C or better in each.  
Co-requisite: PAR 209.

#### PAR 240 SUMMATIVE EVALUATION

0 Lecture 16 Lab 4 Credit Hours(s)  
This summative field evaluation determines if the student is competent to serve as an entry-level clinician. Field rotations place the student in the role of team leader for all calls and expect them to integrate history taking, physical exam and cognitive knowledge into the total management of the patient. Comprehensive examinations evaluate the candidate's knowledge base and psychomotor skills.  
Pre-/Co-requisite: PAR 230.  
Co-requisite: PAR 206.  
\* In addition, students must secure approval of the Medical Director, Paramedic Program Coordinator and Clinical Coordinator to take this class.

#### PAR 271 SPECIAL STUDY PROJECT I

1 Lecture 0 Lab 1 Credit Hours(s)  
A special learning experience designed by one or more students with the cooperation and approval of a faculty member. Proposed study plans require departmental approval. Projects may be based on reading, research, community service, work experience or other activities that advance the student's knowledge and competence in the field of paramedic or related areas. The student's time commitment to the project will be approximately 35-50 hours.

#### PAR 272 SPECIAL STUDY PROJECT II

2 Lecture 0 Lab 2 Credit Hours(s)  
Similar to PAR 271 except that the student's time commitment to the project will be approximately 70-90 hours.

#### PAR 273 SPECIAL STUDY PROJECT III

3 Lecture 0 Lab 3 Credit Hours(s)  
Similar to PAR 271 except that the student's time commitment to the project will be approximately 105-135 hours.