

# **PERCOM EMS Medical Education Consortium Paramedic Program**

## **PARAMEDIC P2 DIDACTIC EMERGENCY MEDICAL SERVICES ACADEMY**

### **Course Syllabus**

**TARGET AUDIENCE:** Candidates for this program must be and remain certified as at least EMT level and have successfully completed the Program's Paramedic 1/AEMT course and must be able to produce a course completion certificate or proof of current certification as an EMT or EMT-Intermediate/AEMT. Candidates will be required to take a general content pretest to assess entry general knowledge. Students will be required to produce and maintain evidence on file of a current NREMT or TDSHS certification at EMT or higher prior to attending the first skills practice in Texas. Rules in other states in which skills sites are located may vary, and students may be required to meet those individual state requirements.

Human Anatomy and Physiology course(s) is/are considered to be a pre-requisite for this Program. However, if students have not completed this prior to enrolling for this program, successful completion of the Program chosen Anatomy and Physiology course will be required. All students who can produce evidence of completion of the full Human Anatomy and Physiology components from another school via transcript will be required to take and pass the online final exam for the PERCOM Anatomy and Physiology course online prior to beginning Paramedic 2 content for full credit toward program completion requirements, subject to Program Director approval. Challenge students who do not pass the A&P final exam on the first attempt will be required to complete the entire A&P course and pass the final exam for credit. Those who do not hold those transcripts verifying successful completion of college level Human Anatomy and Physiology in its entirety or its equivalent will be required to complete the entire Program selected A&P course.

**PROGRAM GOALS AND EXPECTED OUTCOMES:** PERCOM EMS Medical Education Consortium strives to ensure that competent, entry-level students graduate, become certified or licensed and move into patient care jobs and volunteer positions that continue to be desperately needed in the community. To achieve this overall course goal, the Paramedic Program is broken into 2 primary Paramedic course segments, Paramedic 1 and Paramedic 2 (P1 and P2). (Students seeking only NREMT-Advanced – AEMT certification will only be required to complete P1, P1 labs and P1 clinical and field rotations.) Students who wish to be eligible for Paramedic certification must successfully complete both P1 and P2 segments, including associated Labs, Clinical and Field Experiences, Final Field Internship and a summative Graduate Scenario Examination with the Medical Director. The following outcomes and objectives have been adopted and must be demonstrated by each student prior to successful completion of the program.

## Student Learning Outcomes Statements

### Objectives

The program prepares its graduates to:

- Demonstrate individual professional behaviors consistent with employer and community expectations of an entry-level paramedic.
- Demonstrate technical proficiency in all of the skills identified for the role of an entry-level paramedic.
- Comprehend, apply, and evaluate information relative to the expected duties, roles and responsibilities of the entry-level paramedic.

### Expected Outcomes

Students in the program will demonstrate:

1. Cognitive knowledge level expected of an entry level paramedic and as necessary to function in a healthcare setting.
2. General medical knowledge expected of an entry level paramedic and as necessary to function in a healthcare setting.
3. The ability to collect data from charts and patients and appropriately interpret that data.
4. The ability to thoroughly assess a patient utilizing various diagnostic tools and procedures.
5. The ability to recommend appropriate therapeutic procedures and make sound patient care judgments as expected of an entry level paramedic.
6. The ability to perform a broad range of clinical skills, procedures and equipment.
7. The ability to communicate and interact effectively with non-clinical and clinical persons in various healthcare and scene environments.
8. The ability to present oneself in an ethical and professional manner.
9. The ability to manage time efficiently while functioning in a healthcare setting.
10. The ability to use critical thinking skills to assess and treat patients in emergency settings.

**METHODS OF EVALUATION:** To graduate from the Paramedic program, students must demonstrate minimum levels of competency in the following areas: cognitive (knowledge), psychomotor (skills and hands-on type performances) and affective (behavior and attitude). The last area, affective, involves the student's ability to demonstrate the following characteristics throughout the program, and students will be graded on each at various stages and throughout the entire course: integrity, empathy, self-motivation, appearance and personal hygiene, self-confidence, communications, time management, teamwork and diplomacy, respect, patient advocacy, and careful delivery of service.

Students proceed through the didactic portion of the program, which is delivered in

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various methods but not limited to textbook reading, online presentations, videos, “hand-outs”, links to outside sources of learning, chat rooms, forums and other means. Students are required to submit homework assignments (most are essay or fill in the blank in nature) that demonstrate a minimum level of cognitive “grasp” of the material covered. The Lead Instructor may return the assignment to the student one or more times with feedback and instructions for improvement prior to assigning a final grade. Students will also complete a series of “Research Exams”, which are designed to allow the student to research material as necessary and help guide learning, prior to submitting the exam for grading. During this process, students are required to maintain a minimum course average of 80%. Once all didactic requirements are met and graded, students are required to take a proctored webinar based multiple choice Final Exam and must pass with a minimum of 70%. If the student fails the first attempt, he/she is allowed a second attempt after paying a retest fee, but the grade that must be attained on the retest will be a minimum of 80% to pass. If the student fails the second attempt on the Final Exam, he/she will be required to seek outside tutoring from a state or nationally certified EMS instructor per policy and at the student’s expense, be cleared by this instructor for retest, pay the retest fee and schedule and pass the retest with a minimum grade of 80% by the deadline designated by the Program Director or designee to pass this component of the course.

Students will also be required to practice and successfully demonstrate minimum levels of competency on designated psychomotor skills and skills competencies to include formative and summative scenario practice and testing. This segment of the Program is called “Lab Practice/Testing Skills Sessions for P2”. Please refer to that syllabus for information on that segment of the Program.

Following passing the summative Paramedic Final Exam and then all Skills Practice and summative Testing components and competencies, students will schedule and complete all Clinical and Field Rotation requirements. The syllabus for these segments are entitled “Lab Practice and Skills Sessions for P2”, “Clinical and Field Experiences” and “Final Field Internship”. Please refer to these syllabi for further information.

The final Graduation Requirement must be completed as a “pass” no matter what the student’s didactic overall grade or performance in skills or rotations. The student has one retest attempt to pass the entire course.

1. The student must attend and pass a Medical Director led scenario based final summative Graduate Interview.

Students who pass each above component (didactic through the summative Paramedic Final Exam, Lab/Skills Practice and summative psychomotor Testing, Clinical and Field Rotations through Final Field Internship, and the final summative Graduation Scenario Interview Exam will be cleared for course completion and marked ready to take the NREMT Paramedic certification examinations. Students may request early clearance for the NREMT Psychomotor Examination once P2 Skills Testing is successfully completed.

**DISABILITIES OR HANDICAPS:** Students who enter the program with a disability or handicap must notify the course coordinator or lead instructor by the beginning of the third class. Any alterations in testing or clinical rotations during the course do not ensure that the same alteration will be made for the student in the national-testing situation. If a student needs accommodation for a disability at a national-testing site, the student must notify the coordinator by the beginning of the third class. Any accommodation for disability at the national-testing site must be pre-arranged with the national examination program. It is not the responsibility of PERCOM to arrange or make decisions regarding the national approval of any disability or handicap that might affect the candidate during the testing process, nor does PERCOM take any responsibility for any refusal or denial of lack of acceptance by the national examination or state certifying organizations. Disabilities and Handicaps that are to receive an accommodation at the national-testing site shall be confirmed by a physician's statement of disability/handicap or any other requirements as listed by the national testing or state certifying organizations or agencies.

**SCHOLASTIC DISHONESTY:** Students are responsible for adhering to the PERCOM policy on academic dishonesty on Pgs. 26-27 of the online Student Handbook located at the web address below:

<https://www.percomcourses.com/percom-policies>

Students should also read this entire Handbook for all general Rules and Policies governing the Program and its students.

**CLASS DATES AND TIMES:** Didactic class times vary and are student dependent except for chat sessions, which are typically offered on Tuesday evenings at 6:00 p.m. Texas time. However, schedule changes will be posted on the Chat Room calendar and/or in the P2 Course Blog or Newsfeed at percomcourses.com . Students are required to log in and do coursework once each week minimum as “roll call” throughout the program and may be dropped from the course for non-participation for not meeting this standard. Students who cannot fit the posted skills sessions into their busy schedules may request “one on one” skills sessions but they are based on site/instructor availability and have associated fees not covered in base tuition. Rotation dates and times are site dependent as scheduled through the appropriate scheduling system and through the Clinical Coordinator.

### **Recommended**

**Textbooks:** Nancy Caroline “Emergency Care in the Streets”  
Gail Walraven “Basic Arrhythmias with 12 Lead ECG”  
(Alternative choices of other texts available may be used  
as the course design is not matched to a specific textbook)

Other texts are highly recommended including ECG/12 Lead and all texts for card courses: AMLS, ACLS, PALS, PHTLS, GEMS

**Primary Instructors:** Gabriel Helms, B.S., EMT-P, NRP  
([gabrielhelms@percomonline.com](mailto:gabrielhelms@percomonline.com))

## EMT-PARAMEDIC 2 COURSE SCHEDULE

Hours	Topic/Assignment/Test
1.75	<b>Mandatory Course Pretest and Assessments</b>
3.0	<b>Mandatory Chat Rooms x 3</b>
3.0	<b>Mandatory MD Roundtable Discussions</b>
1.0	Course Orientation
0.5	<b>Assignment 1 – What I Must Do to Complete this Program</b>
	<b>SECTION 1 - PHARMACOLOGY</b>
2.5	General Pharmacology Part 1 presentation
1.5	General Pharmacology Part 2 presentation
1.25	<b>Exam 1</b>
1.0	Introduction to Drug Calculations presentation
1.5	Medical Math presentation
1.0	<b>Exam 2</b>
1.0	Central Nervous System Medications presentation
1.0	Antihypertensive Medications presentation
1.5	Rapid Sequence Induction presentation
3.0	Skills Videos and Skills Sheet Review
2.0	Pharmacology Practice Quizzes (Repeat as many times as necessary)
3.0	<b>Drug Cards/Drug Classifications – Begin NOW! Will serve as an Exam grade!</b>
5.0	<b>Assignment 2 - Drug Administration</b>
1.5	<b>Assignment 3 – Pharmacology Scenario</b>
1.0	<b>Proctored Pharmacology Qualifying Exam – Will serve as an Exam Grade!</b>
	<b>SECTION 2 – PULMONARY AND CARDIOLOGY</b>
3.0	Respiratory Emergencies presentation
2.0	Respiratory Emergencies AGAIN presentation
1.5	Continuous Positive Airway Pressure (CPAP) presentation
0.25	Differences between CPAP and BIPAP Article
0.25	In a Prolonged Asthma Attack Article
1.2	<b>Exam 3</b>
3.0	Skills Videos and Skills Sheet Review
3.5	RSI/DSI Reading Assignments
2.0	<b>Assignment 4 – CHF/PE (may submit item completed from P1)</b>
1.0	Cardiovascular Emergencies – Part 1 presentation
3.0	Cardiovascular Emergencies – Part 2 presentation

1.0	Rules for ECG Interpretation presentation
15.0	Independent Basic ECG textbook study
1.0	Key Points for Atrioventricular Blocks presentation
2.5	Cardiovascular Emergencies – Part 3 (3.1 through 3.4) presentation
2.0	Cardiovascular Emergencies – Part 4 (4.1 and 4.2) presentation
1.0	<b>Exam 4</b>
20.0	Independent textbook study of 12 Lead textbook
0.5	Introduction to the 12 Lead presentation
1.5	12 Lead ECG Interpretation presentation
1.0	Review of Handouts
2.0	Anatomy of the 12 Lead presentation
8.0	12 Lead ECG Advanced Tutorials Parts 1-4
1.0	<b>ECG Strips Practice Only</b>
1.0	<b>Exam 5</b>
10.0	Skills Videos, Skills Sheets and ACLS Algorithm Review
2.0	Cardiac Jeopardy Review
2.0	<b>Proctored ECG Qualifying Exam – Will count as an Exam grade!</b>
	<b>SECTION 3 – MEDICAL EMERGENCIES AND SPECIAL PATIENTS</b>
3.0	Nervous System Disorders presentation
2.0	Skills Videos Review
2.0	Comprehensive Neuro Study Guide
0.75	<b>Exam 6</b>
2.5	Endocrine Emergencies presentation
1.0	Anaphylaxis presentation
1.0	<b>Exam 7</b>
1.5	Gastrointestinal Emergencies presentations
1.0	Urological and Renal Emergencies
1.0	<b>Exam 8</b>
1.5	Toxicological Emergencies presentation
2.0	Hematologic Emergencies presentation
1.0	Transporting Patients with Blood Infusing
1.0	<b>Exam 9</b>
2.0	Medical Emergency Jeopardy
2.5	Environmental Emergencies presentation
0.5	Use of the Morgan Lens
2.5	Infectious Diseases presentations

1.0	Guidance on Air Medical Transport for Patients with Ebola Virus Disease
4.5	Behavioral and Psychiatric Emergencies presentation
1.0	<b>Exam 10</b>
1.5	Obstetrical Emergencies – Part 1 presentation
1.5	Obstetrical Emergencies – Part 2 presentation
1.5	Obstetrical Emergencies – Part 3 presentation
0.5	Childbirth Videos
1.5	Neonatal Emergencies presentation
1.25	<b>Exam 11</b>
1.0	Pediatric Medical Emergencies presentation
1.0	Pediatric Respiratory Emergencies presentation
1.5	Pediatric Trauma Emergencies presentation
1.0	Pediatric Shock presentation
1.0	Pediatric Resuscitation presentation
2.0	Pediatric Airway Videos 1-6
2.0	Geriatric Emergencies presentation
1.25	<b>Exam 12</b>
1.0	Abuse and Neglect presentation
1.5	Special Healthcare Patients presentation
1.0	Venous Access Devices
1.0	Acute Interventions for the Chronic Care Patient presentation
1.0	<b>Exam 13</b>
	<b>SECTION 4 – RESCUE AND OPERATIONS</b>
1.75	Ambulance Operations presentation
0.75	Ambulance Operations Videos
0.75	<b>Exam 14</b>
13.0	MCI presentations and NIMS Training Online through FEMA/National Trauma Triage/START and SALT
	<b>Assignment 5 - Submit proof of completion of FEMA NEMS training course to instructor</b>
1.5	Bioterrorism Overview presentation
1.5	Anthrax Overview presentation
4.5	Tactical Emergency Response from Centers for Domestic Preparedness Center presentation
2.0	Rescue Operations presentation and Skills Drills
0.25	Gaining Access Video
1.0	<b>Exam 15</b>
3.5	<b>Assignment 6 - Submit proof of successful completion of HAZMAT Awareness Course Online</b>

3.5	<b>Assignment 7 – Submit proof of successful completion of Radiation Awareness Course Online</b>
0.25	Acute Radiation Syndrome Video
1.0	Crime Scene Awareness presentation
0.75	<b>Exam 16</b>
	<b>SECTION 5 – ASSESSMENT BASED MANAGEMENT</b>
0.25	Effective Assessment presentation
0.25	Factors Affecting Assessment and Decision Making presentation
0.25	Assessment and Management Choreography presentation
0.25	The Right Stuff presentation
0.25	General Approach to the Patient presentation
0.25	Presenting the Patient presentation
1.5	Review of Common Complaints presentation
1.0	NREMT Oral Station Videos
4.0	<b>Assignment 8 – Final Summative Scenarios</b>
2.0	<b>TDSHS Juris Prudence and Quiz</b>
3.0	<b>Exam 17 – Review Exam</b>
64	<b>Skills Practice and Testing</b>
3.5	<b>Final Exam</b>
Total	<b>243.7 hrs P2 didactic + 64 hrs skills + minimum 456 hrs clinical and field rotations = 763.7</b>

**Total Online Didactic Hours  
for this portion of the Paramedic  
Course**

**= 241.7 hours**

**Total Online Hours  
for Paramedic 1**

**= 175.0 hours**

**A&P**

**= 45.5 hours**

**Paramedic 1 Skills Labs**

**= 48 hours**

**Paramedic 2 Skills Labs**

**= 64 hours**

**Clinical/Field Average**

**= 456 hours**

**Hospital ER – 128 Hours**

**Hospital OB – 16 Hours**

**Hospital Respiratory Dept. – 8 Hours**

**Hospital OR – 24 Hours**

**Hospital Cardiac unit – 8 Hours**

**Hospital Cath Lab – 8 Hours**

**Hospital Neonatal ICU – 8 Hours**

**Hospital ICU – 16 Hours**

**EMS – 96 Hours**

**Final Field Internship – 144 Hours**

**Total**

**= 1032.2 hours**

## NREMT OBJECTIVES 2015

Course content is guided by the National Emergency Medical Services Education Standards and the National Registry of EMT's Objectives, more specific P1 Learning Objectives and Competencies are broken out and listed more definitively in the online coursework to assist students as a Study Guide to guide overall learning and success. These are located inside the course online at [percomcourses.com](http://percomcourses.com).

The NREMT objectives for Paramedic 1 and 2 are:

### AB AIRWAY AND BREATHING

- AB1** Assess, manage, and pathophysiology for airway management
- AB2** Assess, manage, and pathophysiology regarding ventilation
- AB3** Assess, manage, and pathophysiology for a patient in respiratory distress
- AB4** Assess, manage, and pathophysiology for a patient in respiratory failure
- AB5** Assess, manage, and pathophysiology for a patient in respiratory arrest
- AB6** Assess, manage, and pathophysiology for a patient having an upper airway respiratory emergency
- AB7** Assess, manage, and pathophysiology for a patient having an lower airway respiratory emergency

### CA CARDIAC

- CA1** Assess, manage, and pathophysiology for a patient with chest discomfort
- CA2** Assess, manage, and pathophysiology for a patient with a cardiac rhythm disturbance
- CA3** Assess, manage, and pathophysiology for a patient in cardiac arrest
- CA4** Assess, manage, and pathophysiology for a patient with stroke-like symptoms
- CA5** Assess, manage, and pathophysiology for a patient in post-resuscitation care
- CA6** Assess, manage, and pathophysiology for a patient with hypotension/hypertension from a non-traumatic cause

## ME MEDICAL EMERGENCIES

- ME1** Assess, manage, and pathophysiology for a patient with a neurological emergency
- ME2** Assess, manage, and pathophysiology for a patient with abdominal disorders
- ME3** Assess, manage, and pathophysiology for a patient with immunological emergencies
- ME4** Assess, manage, and pathophysiology for a patient with infectious disease
- ME5** Assess, manage, and pathophysiology for a patient with endocrine emergencies
- ME6** Assess, manage, and pathophysiology for a patient with psychiatric emergencies
- ME7** Assess, manage, and pathophysiology for a patient with toxicological emergencies
- ME8** Assess, manage, and pathophysiology for a patient with hematological emergencies
- ME9** Assess, manage, and pathophysiology for a patient with genitourinary and/or renal emergencies
- ME10** Assess, manage, and pathophysiology for a patient with gynecological emergencies
- ME11** Assess, manage, and pathophysiology for a patient with obstetrical emergencies
- ME12** Assess, manage, and pathophysiology for a patient with special healthcare needs

## OP OPERATIONS

- OP1** Maintain vehicle and equipment readiness
  - OP2** Operate emergency vehicles
  - OP3** Provide scene leadership/care
  - OP4** Resolve an emergency incident
  - OP5** Provide emotional support
  - OP6** Maintain medical/legal standards
  - OP7** Maintain community relations
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**OP8** Provide administrative support

**OP9** Enhance professional development

**TR** TRAUMA

**TR1** Assess, manage, and pathophysiology for a patient with bleeding or in shock

**TR2** Assess, manage, and pathophysiology for a patient with chest trauma

**TR3** Assess, manage, and pathophysiology for a patient with abdominal and/or genitourinary trauma

**TR4** Assess, manage, and pathophysiology for a patient with orthopedic trauma

**TR5** Assess, manage, and pathophysiology for a patient with soft tissue trauma

**TR6** Assess, manage, and pathophysiology for a patient with head, neck, spine, and/or face trauma

**TR7** Assess, manage, and pathophysiology for a patient with multisystem trauma