

Jefferson County Ambulance Service

EMS Academy

EMT Syllabus



- Course Title:** Emergency Medical Technician
- Course Location:** On-line, JCAS – Fairfield, IA
- Course Duration:** Sept 1 – Feb 28 (students have six months to complete the course, but may finish sooner if they meet graduation requirements)
- Course Instructor:** **Joshua Hemminger**, BA, PM
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jhemminger@jefferscountyia.com
- Course Description:** This course, based on the National EMS Education Standards, instructs students in a variety of topics, including: patient assessment, anatomy and physiology, pathophysiology, pharmacology, medication administration, medical and trauma conditions and emergencies of all ages, and EMS operations. Students will apply knowledge and critical thinking through a variety of hands-on scenarios and skills practice, as well as through clinical experiences, in order to complete the program and be eligible for national certification testing.
- Instructional Method:** This course is self-paced, meaning that student can advance through the content as they wish. The course is taught using a variety of instructional techniques including primarily online lectures and assignments, group discussions, laboratory skills practice, and scenarios. All lectures, homework, unit exams, and supplemental materials are accessed and obtained online.
- Students are required to have and maintain their own computer and internet access throughout the course. Students who lose internet access are encouraged to contact the program director and make alternative plans until access is regained.
- Required Materials:** The following items are required: These materials are included in the cost of the course
- National EMS Education Standards (2021)
 - Instructional Guidelines (2009).
 - Emergency Care, 15th ed.
 - Basic Life Support Provider manual (2020)
 - MyBradyLab
 - EMSTesting
 - Fidap

Assignments: All lectures and homework assignments are available online through MyBradyLab. All coursework must be completed in order, as outlined in the schedule below. Chapter assignments will account for 25% of the students' overall grade.

Skills/Labs: Students are responsible for scheduling their skills/labs days as they proceed through the course. Lab days are required, and skills evaluations and scenario performance will account for 25% of the students' overall grade.

Exams: All unit exams are considered "high-stakes." Students must pass each exam with a minimum of 75%. Failing an exam will constitute a retest for that unit. Retests cover the same material, but are not identical exams. Failure of the second attempt will result in dismissal from the program.

Unit exams will be completed on scheduled skills/labs days, and will be done in-person, using EMSTesting web-based platform.

Test scores account for 50% of the students' overall grade.

Grades: This is a pass/fail course. Students must maintain a 75% or higher at all times in the program. Students falling below 80% will be counseled, and remediation will be recommended. It is the student's responsibility to schedule remediation with the course instructor, or seek alternative sources.

Course Schedule:

Hours	Subject	Requirements
Unit 1 – Foundations		
2	Chapter 1 – Introduction to Emergency Medical Services	
2.5	Chapter 2 – Well-being of the EMT	
2	Chapter 3 – Lifting and Moving Patients	
2	Chapter 4 – Medical, Legal, and Ethical Issues	
1	Chapter 5 – Medical Terminology	
3	Chapter 6 – Anatomy and Physiology	
3	Chapter 7 – Principles of Pathophysiology	
2	Chapter 8 – Life Span Development	
2	Unit 1 Exam	Lifting, Moving, & loading. Fisdap.
4	Lab/Skills	
Unit 2 – Airway Management		
3	Chapter 9 – Airway Management	
3	Chapter 10 – Respiration and Artificial Breathing	
1	Unit 2 Exam	Airway management and breathing
4	Lab/Skills – Airway management, artificial breathing	
Unit 3 – Patient Assessment		
1	Chapter 11 – Scene Size-up	

1	Chapter 12 – Primary Assessment	
2	Chapter 13 – Vital Signs and Monitoring Devices	
2	Chapter 14 – Principles of Assessment	
2	Chapter 15 – Secondary Assessment	
0.5	Chapter 16 – Reassessment	
2	Chapter 17 – Communication and Documentation	
2	Unit Exam 3	Patient assessment scenarios, documentation
4	Lab/Skills – Patient Assessment scenarios	
Unit 4 – Medical 1		
2	Chapter 18 – General Pharmacology	
2.5	Chapter 19 – Respiratory Emergencies	
2	Chapter 20 – Cardiac Emergencies	
2	Chapter 21 – Resuscitation	
4	AHA - BLS	
2.5	Chapter 22 – Diabetic Emergencies	
1.5	Chapter 23 – Allergic Reaction	
2	Unit Exam 4	Medical Scenarios
4	Lab/Skills	
Unit 5 – Medical 2		
2.5	Chapter 24 – Infectious Diseases and Sepsis	
1.5	Chapter 25 –Poisoning and Overdose Emergencies	
2	Chapter 26 – Abdominal Emergencies	
2	Chapter 27 – Behavioral and Psychiatric Emergencies and Suicide	
2	Chapter 28 – Hematological Emergencies	
2	Unit Exam 5	Medical Scenarios
4	Lab/Skills	
Unit 6 – Trauma		
2	Chapter 29 – Bleeding and Shock	
3	Chapter 30 – Soft-tissue Trauma	
2	Chapter 31 – Chest and Abdominal Trauma	
2	Chapter 32 – Musculoskeletal Trauma	
3	Chapter 33 – Trauma to the Head, Neck, and Spine	
1	Chapter 34 – Multisystem Trauma	
3	Chapter 35 – Environmental Emergencies	
2	Unit 6 Exam	bleeding control, splinting, Trauma Scenarios
4	Lab/Skills	
Unit 7 – Special Populations		
3	Chapter 36 – Obstetrics and Gynecology Emergencies	
3	Chapter 37 – Emergencies for Patients with Special Challenges	
2	Unit 7 Exam	

4	Lab/Skills	Delivery scenarios, special population scenarios
Unit 8 – Operations		
3	Chapter 38 – EMS Operations	
2	Chapter 39 – Hazardous Materials, MCI, Incident Management	
2	Chapter 40 – Highway Safety and Vehicle Extrication	
3	Chapter 41 – EMS Response to Terrorism	
2	Unit 8 Exam	
4	Lab/Skills – final check-off	
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Clinical Requirements:

Clinical Requirements	
Emergency Room:	24 hours
Ambulance Ride Time:	24 hours
Contacts:	2 pediatric
	5 adult
	2 pediatric
Minimum 15 patient contacts	
Minimum 5 ambulance runs	

Additional information can be found in the Program Policy Manual.