

Less-Than-One-Year Diploma

Emergency Medical Services Program Cluster
 Center for Human and Protective Services
 Program offered at the West Campus, various locations
 For information call: (608) 828-7963 or
 (800) 322-6282 Ext. 7963

About the Program

This curriculum stresses the integration of knowledge and skills required to competently perform pre-hospital advanced life support. Graduates are eligible for national certification and Wisconsin licensure as an EMT-Paramedic.

Unique Requirements for Admission
 You must be at least 18 years of age, have a valid Wisconsin license as an EMT-Basic, EMT-Intermediate Technician or EMT-Intermediate and have successfully completed the program admission testing process. A COMPASS Reading score of 80 or higher, Writing score of 31 or higher, Pre-algebra score of 43 or higher are required for admission to the EMT Paramedic Program. A grade of C or better in a college level English and Math will also satisfy this requirement. Proof of this must be provided. Students must complete a Criminal History Check as required by the state for licensure and clinical sites. Upon acceptance, a physical examination is required.

Curriculum

The courses listed below outline the requirements for graduation for students entering this program in the 2011-2012 academic year. Requirements for graduation may vary depending on the semester in which a student is admitted to their program. Current/continuing students should consult their degree progress report available through their student center account for specific graduation requirements. Program requirements are subject to change.

		Hrs/week	
		Credits	Lec-Lab
First Semester			
30-531-370	Introduction to Advanced Emergency Care	2	4-0
30-531-371	Pharmacology	2	4-0
30-531-374	EMT-Paramedic Clinical 1	3	0-12
30-531-377	Advanced Cardiopulmonary Emergency Care.....	2	4-0
30-531-378	Adult and Pediatric Advanced Cardiac Life Support.....	1	2-0
30-531-379	EMT-Paramedic Clinical 2	3	0-12
	Total	13	
Second Semester			
30-531-372	Trauma Care for the Paramedic	2	4-0
30-531-373	EMS Operations	1	2-0
30-531-375	Medical Emergencies 1	2	4-0
30-531-376	Emergency Care for Specialties.....	2	4-0
30-531-380	Paramedic Seminar	1	2-0
30-531-381	EMT-Paramedic Internship.....	4	0-16
	Total	12	



Program Courses

**30-531-370 Introduction to Advanced
Emergency Care 2 credits**

Provides an introduction to the paramedic program with an emphasis on the role and responsibilities of a paramedic. Subjects covered include the study of human growth and development, and anatomy and physiology. The course continues with legal and ethical issues, communication and patient assessment. Medical history, data collection, physical examination and clinical decision-making will be addressed in both lecture and lab format. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: Healthcare Provider CPR course and Emergency Medical Technician-Basic, 10-531-101. Corequisites: 30-531-371, 30-531-374, 30-531-377, 30-531-378 and 30-531-379.

30-531-371 Pharmacology 2 credits

Offers an introduction to basic vocabulary and principles of pharmacology and clinical therapeutics. Study of fluid and electrolytes along with acid base balance are addressed. Administration of drugs, including intramuscular, subcutaneous, endotracheal and intravenous therapy will be studied along with the drug protocols. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: Healthcare Provider CPR course and Emergency Medical Technician-Basic, 10-531-101. Corequisites: 30-531-370, 30-531-374, 30-531-377, 30-531-378 and 30-531-379.

30-531-372 Trauma Care for the Paramedic 2 credits

Review of all systems, which include mechanism of injury, patient presentation and assessment, management techniques, including pharmacology and local protocols. Lecture format is used followed by a lab to utilize the knowledge learned in the classroom to apply in the laboratory setting. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: all first-semester courses. Corequisites: 30-531-373, 30-531-375, 30-531-376, 30-531-380 and 30-531-381.

30-531-373 EMS Operations 1 credit

Addresses the current issues involved in bioterrorism and the management of incidents involving hazardous materials. The operations, roles and responsibilities are addressed along with the resources available. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: all first-semester courses. Corequisites: 30-531-372, 30-531-375, 30-531-376, 30-531-380 and 30-531-381.

30-531-374 EMT-Paramedic Clinical 1 3 credits

Clinical experience provided during which the paramedic student utilizes the knowledge and skills learned in the classroom and labs. A preceptor will evaluate the student in the following areas: ambulatory care, emergency department, operating room and intensive care units. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: Healthcare Provider CPR course and Emergency Technician-Basic, 10-531-101. Corequisites: 30-531-370, 30-531-371, 30-531-377, 30-531-378 and 30-531-379.

30-531-375 Medical Emergencies 1 2 credits

Review provided of systems, definitions, signs and symptoms, assessment, management techniques including pharmacology and local protocols. The following specialties are addressed: gastroenterology, hematology, immune system, neurology, endocrinology, toxicology and communicable diseases. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites include all courses in the first semester. Corequisites: 30-531-372, 30-531-373, 30-531-376, 30-531-380 and 30-531-381.

30-531-376 Emergency Care for Specialties 2 credits

Continuation of review of systems, definitions, signs and symptoms, assessment, management techniques including pharmacology and local protocols. The following specialties are addressed: gynecology, obstetrics, neonatology, pediatrics and geriatrics. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: all first-semester courses. Corequisites: 30-531-372, 30-531-373, 30-531-375, 30-531-380 and 30-531-381.

**30-531-377 Advanced Cardiopulmonary
Emergency Care 2 credits**

Overview of the course includes the pulmonary, cardiovascular and renal systems. Systems, definitions, signs and symptoms, assessment and management techniques are reviewed and discussed. Labs include airway and ventilation management, ECG interpretation and pharmacology as it relates to the above systems. Upon completion of the course with a grade of a C or higher, the student will be eligible to attend the ACLS certification course. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: Healthcare Provider CPR course and Emergency Medical Technician-Basic, 10-531-101. Corequisites: 30-531-370, 30-531-371, 30-531-374, 30-531-378 and 30-531-379.

**30-531-378 Adult and Pediatric Advanced
Cardiac Life Support 1 credit**

The American Heart Association sponsored courses of advanced certification in the adult and pediatric patients. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: Healthcare Provider CPR course and Emergency Medical Technician-Basic, 10-531-101. Corequisites: 30-531-370, 30-531-371, 30-531-374, 30-531-377 and 30-531-379.

30-531-379 EMT-Paramedic Clinical 2 3 credits

Clinical experience provided during which the paramedic student utilizes the knowledge and skills learned in the classroom and labs. A preceptor will evaluate the student in the following areas: hospital, clinic, public health department and home health. This course is based on the Department of Transportation National Standard Curriculum, Wisconsin Revised Version for EMT-Paramedic. Prerequisites: 30-531-374.

30-531-380 Paramedic Seminar 1 credit

Allows the paramedic students' preceptors and clinical instructors to meet, plan, implement and evaluate the clinicals along with the field internship. Instruction on how to study for the licensure exam is included. Prerequisites: completion of all courses in the one-year diploma paramedic program with a grade of C or higher. Corequisite: 30-531-381.

30-531-381 EMT-Paramedic Internship 4 credits

Field Internship includes hours participating on-call, riding in the ambulance with direct patient care. Duties include direct patient care in the pre-hospital setting, documentation, maintenance and inventory of equipment, and duties as assigned by the preceptor and sponsoring agency. Students are eligible to sit for the National Registry Certification Exam upon successful completion of all Field Internship clinical hours. Upon passing the National Registry Exam for EMT-Paramedic, the student will be eligible for licensure by the State of Wisconsin. Prerequisites: completion of all courses in the one-year diploma paramedic program with a grade of C or higher. Corequisite: 30-531-380.

Career Potential:

With additional education and/or work experience, graduates may find employment as:

- Emergency Room Technician
- Firefighter
- EKG Technician
- Paramedic
- Medical Laboratory Technician
- Home Health Aide
- Medical Assistant
- Registered Nurse
- Respiratory Therapist
- Physician's Assistant

More detailed and updated information on this program may be available at: madisoncollege.org. The college reserves the right to make changes in the regulations and courses announced in this publication without notice.

Madison Area Technical College provides equal opportunity in education and employment.

Rev: 07/11