

# Emergency Medical Services

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The Emergency Medical Services Program (EMS) leads to one of two levels of certificates or an Associate in Applied Science in Emergency Medical Services.

These programs are directed towards individuals engaged in the delivery of pre-hospital emergency medical care and to prepare the student to pass the National Registry certification written and practical exams at the EMT and Paramedic levels. Lecture, classroom demonstrations, skills practice, case studies, and actual hands on experience based on State and National standards provide the basis for the instruction. The program will provide a thorough presentation of the role of the Emergency Medical Technician or Paramedic, and stresses the recognition of abnormal conditions through analysis of assessment findings and appropriate management for patients with illness or injury at the scene or during transport to a medical facility. The EMS program has options available to meet the student's individual needs for a career in the Emergency Medical Services field or in the municipal fire service.

Students must first be admitted to the college and designate Emergency Medical Services (EMS) as their major. Admission to the college does not automatically include admission to the EMS Program. Additionally, all students must attend an EMS orientation session and will then be given the information needed to enroll in the EMS program.

## EMS Program Admission Requirements

1. Acceptance by the college through OCC application completion
2. High school graduation, GED, or EMS Staff approval
3. Have accessibility to internet service and printing capabilities
4. Attend an Emergency Medical Services orientation session, fill out an application to the EMS program, and pass a criminal background investigation and drug test.
5. Be at least 18 years of age by completion date for EMT certification or obtain EMS staff approval
6. Must be free of any handicaps or disabilities that could affect his/her ability to deliver prompt and efficient care to the sick and injured
7. Provide all required documentation to the EMS program staff of good physical and mental health signed by a physician, and all other forms and waivers associated with the program.
8. EMS courses have a prerequisite of placement into ENG 1510 or successful completion of ENG 1510 with a GPA of a "C" (2.0) or better.

## Paramedic Program Requirements

- High school graduation or GED
- Be accepted by the college through OCC application completion.
- Have accessibility to internet service and printing capabilities.
- Have attended and successfully passed an accredited EMT program.
  - Students who possess a valid Michigan EMT license and/or initial or current National Registry certification may be granted credit for EMS 1010, EMS 1020, and EMS 1100 by providing a notarized copy of either of these documents or bringing the originals to the EMS office so copies may be sent to the Registrar with the EMS Program Director's signature.

- Attend an EMS orientation session, fill out an application for admission to the program, and pass a criminal background investigation and drug test as stated below.
- Must be free of any handicaps or disabilities that could affect his or her ability to deliver prompt and efficient care to the sick and injured.
- Provide adequate documentation to the EMS Program staff of good physical and mental health signed by a physician, and all other forms and waivers associated with the program
- EMS courses have a prerequisite of placement into ENG 1510 or successful completion of ENG 1510 with a GPA of a "C" (2.0) or better.
- Completion of BIO 1650 (or BIO 2630 & BIO 2640) and BIO 2660 with a GPA of a "C" (2.0) or better in each class.

All provisions of the program will be explained at the orientation session prior to enrollment in the program. In addition to tuition, Emergency Medical Services students incur extra costs such as health examinations, inoculations, uniforms, supplies, and National Registry and licensure applications.

A criminal history check and drug screen are required for all students entering the program. Exclusionary factors will include

1. Conviction of a felony or conviction of an attempt to commit a felony within the last 15 years immediately preceding the date of the criminal history check; or
2. conviction of a misdemeanor involving abuse, neglect, assault, battery, or criminal sexual conduct, or involving fraud or theft against a vulnerable adult, within ten years immediately preceding the criminal history check.

Additionally, students will be required to pass a drug screen as part of their orientation process. Students in the EMS programs must achieve a minimum grade of 2.7 (B-) for each EMS course in order to be eligible for EMS program certificates, EMS related degrees, or to advance to the next level EMS courses. For additional information, please contact the EMS Department at **(248) 232-4232**.

## Degree

- Emergency Medical Services (EMS.APP) (<http://catalog.oaklandcc.edu/programs/emergency-medical-services/emergency-medical-services-aas>)

## Certificate

- Emergency Medical Services - Paramedic (EMS.PAR.CT) (<http://catalog.oaklandcc.edu/programs/emergency-medical-services/paramedic-certificate>)

## Certificate of Achievement

- Emergency Medical Services - EMT (EMS.EMT.CA) (<http://catalog.oaklandcc.edu/programs/emergency-medical-services/emt-certificate>)

## Emergency Medical Services Courses

**EMS 1010 EMT I ..... 5 Credit Hours**

**Equivalent:** EMT 1540

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS Orientation and placement into ENG 1510 or higher or successful completion of ENG 1510 or equivalent with a GPA of 2.0 or better.

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

**Corequisite:** EMS 1020 EMS 1100 and EMS 1200.

This course, in conjunction with EMS 1020, EMS 1100 and EMS 1200, is designed to teach the knowledge, skills, and appropriate behavior to prepare students for the National Registry Certification examinations which will enable them to obtain a Michigan Emergency Medical Technician (EMT) license. The focus of this particular course is related to the medical aspect of patient care. Students will be under the direct supervision of a licensed EMS Instructor-Coordinator. Successful completion of this course requires the student to pass a written and practical examination consistent with State and National standards. This class contains an on-line component. BILLABLE CONTACT HOURS: 6

**EMS 1020 EMT II ..... 5 Credit Hours**

**Equivalent:** EMT 1550

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS Orientation and placement into ENG 1510 or higher or successful completion of ENG 1510 or equivalent with a GPA of 2.0 or better.

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

**Corequisite:** EMS 1010 EMS 1100 and EMS 1200 (Recommended).

This course, in conjunction with EMS 1010, EMS 1100 and EMS 1200, is designed to teach the knowledge, skills, and appropriate behavior to prepare students for the National Registry Certification examinations which will enable them to obtain a Michigan Emergency Medical Technician (EMT) license. The focus of this particular course is related to the trauma aspect of patient care. Students will be under the direct supervision of a licensed EMS Instructor-Coordinator. Successful completion of this course requires the student to pass both written and practical skill examinations consistent with state and national standards. This class contains an on-line component. BILLABLE CONTACT HOURS: 6

**EMS 1100 Basic EMT Clinical ..... 1 Credit Hour**

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS Orientation

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

**Corequisite:** EMS 1010 EMS 1020 and EMS 1200.

This course, in conjunction with EMS 1010, EMS 1100 and EMS 1200, is designed to teach the knowledge, skills, and appropriate behavior to prepare students for the National Registry Certification examinations which will enable them to obtain a Michigan Emergency Medical Technician (EMT) license. The focus of this particular course is related to the trauma aspect of patient care. Students will be under the direct supervision of a licensed EMS Instructor-Coordinator. Successful completion of this course requires the student to pass both written and practical skill examinations consistent with state and national standards. This class contains an on-line component. BILLABLE CONTACT HOURS: 1

**EMS 1200 Rescue and Extrication ..... 1 Credit Hour**

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS Orientation.

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

**Corequisite:** EMS 1010 EMS 1020 and EMS 1100.

The course emphasizes the methods of gaining entry, freeing, and removing an injured and trapped individual from a vehicle without causing further harm. The class is taught by state certified instructors utilizing multiple methods of instruction. The second day is scheduled at an appropriate outdoor site and includes actual hands-on experience with light and medium extrication tools. This course is intended to be taken as part of the Basic EMT Program. BILLABLE CONTACT HOURS: 1

**EMS 1400 EMT Extended Clinical ..... 3 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS 1010 EMS 1020 and EMS 1100 or consent of EMS Department placement into ENG 1510 or successful completion of ENG 1510 or equivalent with GPA of 2.0 or better and minimum math placement into MAT 1100 within the past 2 years. ,

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

This course is designed to provide the student with hospital and ambulance skill experience beyond the minimum 60 hours provided in EMS 1100. Students will continue to acquire a working knowledge of practices and procedures in the field of emergency care, and experience other areas of health care in other hospital and pre-hospital settings. Through hands-on training, the student will complete specified performance objectives to the satisfaction of their hospital/ambulance evaluator. BILLABLE CONTACT HOURS: 3

**EMS 1500 Emergency Medical Communications ..... 2 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS 1020 or EMS Orientation.

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

**Corequisite:** EMS 1400

This course is designed to provide the student with the techniques of communications within the emergency medical system including general communication skills, medical terminology, technical report writing, written verbal and radio communications using classroom lectures, situation drills and on-site visitation of appropriate functioning communications centers when available. BILLABLE CONTACT HOURS: 2

**EMS 2000 Paramedic I Including IV and Intubation .....5 Credit Hours****Equivalent:** EMT 2601**English/ESL Placement:** Placement into ENG 1510.**Pre- or Corequisite:** EMS 1400 and BIO 1650 (or BIO 2630 for those taking the BIO 2630 and BIO 2640 sequence.)

This course is designed to provide Emergency Medical Technicians (EMTs) the knowledge and skills necessary for the students to perform within a limited advanced life support system and/or to continue on to Paramedic courses. Students are expected to attend weekly sessions in the classroom under the direct supervision of a licensed EMS Instructor-Coordinator for lecture, testing, and hands-on applications. The advanced life support skills of intravenous therapy and endotracheal intubation as they relate to emergency field use are introduced. Additionally, this course will enable the student to upgrade and refine their EMT skills. This class also contains an online component. BILLABLE CONTACT HOURS: 6

**EMS 2100 Paramedic I Clinical ..... 2 Credit Hours****Equivalent:** EMT 2400**English/ESL Placement:** Placement into ENG 1510.**Corequisite:** EMS 2000

This course is designed to provide the student with opportunities in a clinical setting within the hospital and EMS system. Focus will be on performing IV therapy and ET intubations on actual patients to obtain competency. Specific criteria and documentation will be required in order to successfully complete this level of clinical experience. Student will be supervised and evaluated by professional personnel who will facilitate verification of competency. BILLABLE CONTACT HOURS: 2

**EMS 2200 Paramedic II Including Pharmacology .....5 Credit Hours****Equivalent:** EMT 2611**English/ESL Placement:** Placement into ENG 1510.**Prerequisite:** EMS 2000 and BIO 1650 or BIO 2630**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.**Pre- or Corequisite:** EMS 2100 or BIO 2640 for those taking the BIO 2630 and BIO 2640 sequence.

The emphasis of this course is pharmacology and drug therapy as they relate to advanced pre-hospital emergency care. Aspects of drug administration such as mechanisms of action, indications, contraindications, metabolism, excretion, and side effects of a wide range of drugs will be explored. In addition, paramedic care of the medical patient including appropriate advanced level interventions will be discussed. This class contains an online component. BILLABLE CONTACT HOURS: 6

**EMS 2300 Paramedic III Including Cardiology ... 5 Credit Hours****Equivalent:** EMT 2621, EMT 2620**English/ESL Placement:** Placement into ENG 1510.**Prerequisite:** EMS 2000 and BIO 1650 or BIO 2630.**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.**Pre- or Corequisite:** EMS 2100 or BIO 2640 for those taking the BIO 2630 and BIO 2640 sequence.

The emphasis of this course is on teaching the principles of the electrocardiogram, the cardiac conduction system and the techniques of interpretation and treatment of cardiac dysrhythmias. In addition, paramedic care of the trauma patient including appropriate advanced level interventions will be discussed. This course is designed to provide the paramedic student with a body of knowledge and skills to assist in preparing them for the National Registry Paramedic Certification examination and enable them to assess and treat acutely ill and seriously injured patients under the control and supervision of a medical control physician. This class contains an online component. BILLABLE CONTACT HOURS: 6

**EMS 2400 Paramedic II Clinical / Internship I ..... 4 Credit Hours****English/ESL Placement:** Placement into ENG 1510.**Prerequisite:** EMS 2300**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

This course is designed to provide the paramedic student with hospital and advanced life support unit experience to perform skills learned in the paramedic courses. Hospital experience will include emergency room, operating room, post-anesthesia recovery, and critical care areas for both adult and pediatric patients. In addition, students will be placed in labor and delivery, psychiatric care areas, triage, morgue, and on paramedic ambulances including fire department units. Competency of skills will be evaluated by clinical preceptors and the course instructor to assure readiness for Internship courses. This course contains an online component. BILLABLE CONTACT HOURS: 4

**EMS 2500 Paramedic III Internship II .....3 Credit Hours****English/ESL Placement:** Placement into ENG 1510.**Prerequisite:** EMS 2400**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

This course is designed to provide a means for paramedic students to experience actual clinical settings where they will function as a team member and have team leader expectations. Students entering this stage of their training must be fully competent in their paramedic skills. Preceptors will monitor each student's progress through this experience and communicate directly with the course instructor. Final completion of this course and competency will be determined by the EMS Program Director and the Program Medical Director. Successful completion of this course will conclude the paramedic program and allow the student to apply for the National Registry certification exams. BILLABLE CONTACT HOURS: 3

**EMS 2600      National Registry Paramedic Exam Prep      .....2 Credit Hours**

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** EMS 2300 or consent of instructor.

**Note:** Prerequisites for courses in this department are not automatically waived for College Guest students and students with a bachelor's degree or higher from a U.S. institution.

This course prepares prospective paramedic student candidates for the National Registry Paramedic practical skills examination. The 12 skill stations tested at the NR exam will be practiced until mastery is achieved and students will complete a performance examination of each skill modeling the National Registry practical exam. This course is a requirement for completion of the OCC paramedic program or may be a stand-alone course for candidates who have completed their training outside of OCC and are preparing to take the National Registry practical exam. BILLABLE CONTACT HOURS: 2

**EMS 2700      Advanced Cardiac Life Support (ACLS)**

**Provider      ..... 2 Credit Hours**

**Equivalent:** EMT 2700

**English/ESL Placement:** Placement into ENG 1510.

**Prerequisite:** Current certification in Basic Life Support (Healthcare Provider) according to AHA standards.

This course is designed to teach the essential skills of Advanced Cardiac Life Support according to current standards, but at a slower pace for students who are not involved with cardiac emergencies on a regular basis. Students are strongly encouraged to have a background in medical, nursing, and/or paramedic fields. A basic understanding of interpreting EKGs is also encouraged. Basic Life Support, advanced airway maneuvers, defibrillation, cardioversion, cardiac pacing, pharmacological therapy, and algorithm proficiency are all components of the course. Successful completion will result in ACLS certification. BILLABLE CONTACT HOURS: 2