

# EMT-2330: PARAMEDIC THEORY I

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## Cuyahoga Community College

### Viewing: EMT-2330 : Paramedic Theory I

**Board of Trustees:**

2012-05-24

**Academic Term:**

Fall 2020

**Subject Code**

EMT - Emergency Medical Technology

**Course Number:**

2330

**Title:**

Paramedic Theory I

**Catalog Description:**

Principles and practices of emergency medical technician paramedics based on the Department of Transportation National Standard Paramedic Curriculum, current to at least 2011, and the State of Ohio Paramedic Curriculum effective 2012. Includes roles and responsibilities, Emergency Medical Services systems, well-being of the paramedic, therapeutic communications, medical/legal considerations, stress management and life span development.

**Credit Hour(s):**

6

**Lecture Hour(s):**

4

**Lab Hour(s):**

4

## Requisites

**Prerequisite and Corequisite**

BIO-2331 Anatomy and Physiology I, and BIO-2341 Anatomy and Physiology II; or EMT-1401 Anatomy & Physiology for Paramedics; and current Ohio Certified EMT-B, and departmental approval.

## Outcomes

**Course Outcome(s):**

Use strategic management and ethical decision making skills to lead, schedule, and staff EMS Systems.

**Objective(s):**

1. Describe the roles and responsibilities of EMT's.
2. Describe the components of EMS systems.
3. Explain various stress management techniques appropriate for pre-hospital emergency care.
4. Explain the medical/legal/ethical considerations of EMS communications including HIPPA.

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**Course Outcome(s):**

Use patient assessment skills to identify mechanism of injury or nature of illness to determine therapeutic modalities for the medical and trauma patient, and establish the priority of interventions needed to improve the patients' outcome.

**Objective(s):**

1. Demonstrate correct intravenous administration.
2. Demonstrate correct injection techniques.
3. Demonstrate required paramedic-level performance standards in the clinical setting.
4. Define the components of medical terminology as related to emergency medical care.
5. Manage general patient assessment in the pre-hospital setting.
6. Explain the use and application of therapeutic communication in the pre-hospital setting.

7. Recognize the pathophysiology of shock and anaphylaxis in the emergency patient.
8. Describe medications and drug usage in emergency pharmacology.

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**Course Outcome(s):**

Assess signs/symptoms of infectious diseases, take appropriate body fluid precautions, and begin appropriate treatment.

**Objective(s):**

1. Describe signs/symptoms of infectious diseases.
  2. List the appropriate body fluid precautions.
  3. Demonstrate appropriate disposal procedures for contaminated equipment, clothing and sharps.
  4. Identify appropriate assessment and treatment modalities regarding patients of all ages.
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**Methods of Evaluation:**

1. Written examination
2. Practical in-class skill evaluations to National Registry standards
3. Practical examinations
4. Projects and presentations

**Course Content Outline:**

1. Concepts
  - a. Roles and responsibilities of certification levels (EMT-B, EMT-I, EMT-P)
  - b. Laws governing the EMT-P
  - c. Medical terminology
  - d. Circulatory, cellular structure and function
  - e. Body fluid precautions
  - f. Types and appropriate situations for using IV Therapy
  - g. When to use fluid and electrolytes therapy
  - h. EMS Systems and Procedures
  - i. Life span development
2. Skills
  - a. Basic assessment and skills review
  - b. Paramedic assessment
  - c. Starting appropriate IV therapy and using appropriate body fluid precautions
  - d. Administering of fluids and electrolyte therapy.
  - e. Administering medications by sub-q, IM, and IV routes.
3. Issues
  - a. Stress management
  - b. Death and dying
  - c. Universal precautions
  - d. Scope of practice
  - e. Communicating with diverse population

**Resources**

Bledsoe, Bryan E.;. *Essentials of A P for Emergency Care Providers*. 11th ed. Upper Saddle River, NJ: Prentice Hall, 2014.

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Bledsoe, Bryan E., and Robert S. Porter. *Paramedic Care: Principles Practice*. 5th ed. Upper Saddle River, NJ: Prentice-Hall, 2017.

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American Heart Association. *AHA - Healthcare Provider Manual -2015*. {ts '2016-04-29 00:00:00'}.

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Video Series. "Emergency Medical Update"

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**Resources Other**

1. <http://www.ems.ohio.gov/>
2. *Jems Journal of Emergency Medical services*. Mosby.
3. <http://www.emstesting.com>

**Instructional Services**

**CTAN Number:**

Career Technical Assurance Guide CTEMS004 (2 of 6 courses, all must be taken)

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