

**NorthWest Arkansas Community College**  
**Standard Course Outline**  
**Division of Health**

**Course Number and Title**

EMTP 1026, Paramedic Clinical I

**Course Description**

During this time the student will refine their IV initiation and medication administration skills. A significant emphasis will be placed on advanced patient assessment involving adult patients with both traumatic and medical etiologies. At the completion of this course, the paramedic student should be able to effectively perform an advanced level patient assessment, arrive at an acceptable diagnosis, and formulate an appropriate pre-hospital treatment plan for adult aged patients presenting with common acute and chronic medical problems as well as traumatic injuries. Hospital and EMS service clinical rotation assignments are made by the faculty, clinical coordinator, preceptor committee, and the medical director.

**Prerequisite**

EMTA 1013 First Responder

EMTA 1008 EMT-Basic

Admission into the Paramedic Program by the Division of Health Professions

Although not required prerequisites, it is of great benefit to the student to have completed the following courses prior to entering the paramedic program:

BIOL 2214 Anatomy & Physiology I

BIOL 2224 Anatomy & Physiology II

AHSC 1001 Medical Terminology

**Credit Hours/Contact Hours**

Six hours of credit is given to this section. Contact hours are dependent on patient load exposure and number of procedures procured during time spent in the clinical setting. Time is not as crucial as procedures performed by the student. Approximately 350 hours are required for this section.

**Target Audience/Transferability**

Students enrolled in this program must be admitted in the paramedic program. This program does not typically transfer to other institutions.

**Student Learning Outcomes and Topics**

Minimum Required skills include:

**Adult Patients:** In the emergency department, the student will conduct an effective advanced level patient assessment on adult patients presenting with multi-systems trauma, chest pain, abdominal pain, altered level of consciousness, respiratory distress, diabetes mellitus, possible cerebral vascular accident, and/or seizure disorders. The student will formulate an appropriate

pre-hospital treatment plan for these patients. (Document all assessments on Patient Assessment Log)

**Adult Patient Assessment:** Minimum: **95** urgent/emergent adult patients. (From ED and/or Pre-hospital)\*\*

A total of **150** patient assessments must be completed. Some categories will over lap.

**30** Chest Pain assessments

**20** Respiratory Distress assessments

**10** Syncope assessments

**10** OB assessments (The student will use every opportunity to assess the pregnant patient during their emergency department and EMS clinical time.)

**20** Altered Level of Consciousness assessments

**10** Psychiatric Patient assessments

**60** successful IV insertions,

(**48** of which to be placed outside the AC space)

**30** IV medication bolus prep, calculations, and administrations **20** IM medication calculations, preparations, and administrations **3** Foley (urinary) catheter insertions

**2** Nasogastric/orogastric tube insertions

Auscultation of Lung Sounds\*\*: As many as possible.

**Dysrhythmias Recognition\*\*:** Practice interpretation as often as possible.

Utilization of IV pumps (i.e. Travenol, Plum, etc.)

**10 Hours: EMERGENCY DEPT. ORIENTATION AND OBSERVATION (July-August)**

During this time the student will familiarize themselves with ED equipment and procedures, and observe IV and medication administration. The hours will be divided as follows: Five hours at primary clinical site and five hours at alternate site.

**200 Hours: EMERGENCY DEPT. CLINICAL PRACTICUM (August-December)**

During this time the student will practice supervised IV placement, medication administration, oxygen administration, ECG monitoring, Auscultation of Lung Sounds, and observe physician and nurse/paramedic patient assessment methodologies and advanced airway management. Students will also obtain and interpret 12 lead ECGs, place and assess urinary catheters and gastric tubes.

**16 Hours: O.R. ANESTHESIA CLINICAL ROTATION**

During this time the student will be assigned a 2-3 day rotation with an anesthesiologist or certified registered nurse anesthetist and will observe and perform patient ventilatory assistance and endotracheal intubation in the operating room. You will be assigned an OR. **DO NOT go to SURGERY until you are released by the clinical coordinator. Required skills include:**

**5** successful oral intubations along with ventilatory assistance as needed in live patients (operating room).

**10** successful intubations with no mistakes using the national check off form (lab room)

**1** graded intubation via faculty

**10** successful CombiTube placements with no mistakes using the national check off form

graded CombiTube placement via faculty  
Airway Cam Videos (actively viewed 72 hours prior to OR clinical rotation)  
Watch and document viewing of two assigned Airway Cam videos and return to Health Professions. (**Sign off sheet provided**)

#### 8 Hours: RESPIRATORY THERAPY ROTATION

During this time the student will both observe and perform bronchodilator nebulized treatment set up and administration as well as tracheobronchial suctioning. Students will also observe ventilator procedures utilized on intubated patients and arterial punctures for blood gas analysis.

Required skills include:

Preparation and administration of nebulized bronchodilator treatments

**3** tracheobronchial suctioning of patients

(Documentation of procedures and signatures of respiratory therapist(s) will be completed using provided sign-off sheet from Clinical Manual) **DO NOT** proceed to respiratory therapy until you are released by the clinical coordinator.

#### 24 Hours: EMS Orientation Ride Time (In patient compartment of ambulance)

The time will be divided in the following way: 12 hours at the student's primary agency and 12 hours at the student's alternate (secondary) agency.

Primary agency: Students that work full-time for their primary agency will be exempt from the 12 hour orientation. All students are required to return a fully completed EMS Service Orientation Primary Agency form signed by a department preceptor and the department training officer or his/her designee.

Alternate agency: All students are required to complete a 12 hour orientation with their assigned alternate agency as a 3<sup>rd</sup> rider. This is to allow the student to be in attendance in the patient compartment. All students are required to return a fully completed EMS Service Orientation Alternate Agency form signed by a department preceptor and the department training officer or his/her designee.

EMS Agency Orientation Rationale: During this time the student will familiarize themselves with the daily operations of the assigned EMS services. This will include participation in ambulance and equipment checks, 3<sup>rd</sup> rider observation, and practice in loading and unloading patients, on scene equipment retrieval and set up as well as performance of as needed Basic EMT skills.

#### 38 Hours: EMS SERVICE EMT/B REVIEW

During this time the student will familiarize themselves with the daily operations of the assigned EMS services. This will include participation in ambulance and equipment checks, 3<sup>rd</sup> rider observation, and practice in loading and unloading patients, on scene equipment retrieval and set up as well as performance of as needed Basic EMT skills. (**Your assigned EMS services will be given a student evaluation form at the end of this component for student evaluation**).

#### EMS SERVICE CLINICAL ROTATION

**DO NOT** begin this component of your EMS rotation until cleared to do so per the clinical coordinator. During this time the student will continue to participate as a 3<sup>rd</sup> rider with a designated paramedic level ambulance service. Students will practice both EMT basic and advanced level skills under the direction of the lead

paramedic. The student will be required to respond to a minimum of **25 emergency calls** where ALS level care was provided and the student successfully participated in the advanced care. **Twenty (20)** of these ALS calls will be completed at the student's primary agency and **five (5)** will be completed at the student's alternate agency.

ALS care includes initiating one (1) of the following: IV access, ECG monitoring and interpretation (including 4 lead or 12 lead ECG interpretation), medication administration (IV, ET, IO, SQ, or IM), or advanced airway maneuvers. Students will also be required to perform advanced level patient assessment at the discretion of the lead paramedic. At the completion of these requirements, the paramedic preceptors and training officers will evaluate the student's performance and readiness to advance to the next clinical phase of the program.

### **FORMS OF ASSESSMENT**

**Student Evaluation:** At the completion of EMTP 1026, the following skills will be evaluated and graded. A minimum of 75% on this evaluation is required for continuation in the paramedic program. The overall grades for EMTP 1026 will be based on completion of the required skills, assessments, and procedures by the end of the course in the fall, successful completion of the Skills "Check-off" Evaluation, and completion of the 25 ALS patient transports. **The check off evaluation will be supervised and conducted in the emergency department utilizing actual consenting patients.** The following skills and behavior will be evaluated utilizing the "evaluation form" included in the clinical handbook:

IV set up, insertion, phlebotomy, IV securing, and drip rate calculation for adult patients. Trouble shooting IV problems.

Dysrhythmia recognition/interpretation.

IV medication selection, dose calculation, and administration.

Correct IM medication selection, dose calculation, and administration.

Appropriate auscultation of lung sounds.

Utilization of BSI and aseptic techniques.

Utilization of the IV pumps to deliver fluids and medications to the patient.

Preparation will occur during the preceding weeks in the classroom environment as well as the hospital and the pre-hospital setting.

#### **Clinical Material Submission:**

*Students* are responsible to submit all monthly clinical material to the clinical coordinator by *noon on the last Thursday of each month* (unless otherwise specified). This material includes, but is not limited to the following list:

ED sign in sheet. For credit highlight each line where your name, date, and time appear. IV insertion record.

IV medication record.

IM medication record.

12 lead ECG record.

OR time record.

Intubation record. Respiratory Therapy record. Patient Assessment records.

Preceptor (emergency services rotation) records. Advanced Procedures records.

Preceptor Evaluation Forms.

Make copies prior to your arrival at the Division of Health Professions. Place the original copies of the material in a manila folder. Label the folder with your name and date. Complete the form in the log book (located in the clinical coordinator's office) following the directions provided.

If material is submitted after designated date and time, there will be a deduction

of four (4) % points from the respective student's final grade for the course for each business day (utilizing the noon deadline) the material is delinquent from the student's file.