

NorthWest Arkansas Community College

Standard Course Outline

EMTP 1022 Shock & Fluid Therapy

Prerequisite: Admission into the paramedic program and enrolled as a student at NWACC

Course Description: The pathophysiology, assessment, and prehospital emergency treatment of physiological shock (inadequate perfusion of body cells) will be covered in this course. Specific content will include osmolarity and properties of body and resuscitative fluids, etiology of the shock state, arterial blood gas analysis, and appropriate field assessment, diagnosis, and management.

Target Audience and Transferability: This course is not intended to transfer into a four year institution unless the student is transferring into an institution that has a paramedic degree specifically. The student will need to obtain transfer information from the institution he/she is transferring to in order to determine transferability.

Credit Hours: 2 credit hour

Instructional Material:

Current edition of selected paramedic text and workbook.
Citations from the current emergency medical literature

Course Objectives: Upon successful completion of course the student will be able to:

1. Describe basic pathophysiology and etiology of Shock
2. Identify major body fluid compartments and total fluid capacity
3. Explain the etiology of various types of shock
4. Understand physiological factors effecting fluid shifts within the body
5. List and describe the major components of human blood
6. Describe blood types and significance to emergency management of shock
7. Select appropriate fluids and drip sets for intravenous resuscitation of patients
8. Identify abnormal arterial blood gas values
9. Explain appropriate emergency treatment for critical arterial blood gases
10. Describe the physiological stages of shock
11. Demonstrate appropriate rapid physical assessment to R/O and/or diagnose shock
12. Indicate/perform basic and advanced life support modalities in the treatment of shock
13. Demonstrate peripheral intravenous access for fluid and blood resuscitation
14. Identify common complications and remediation for IV resuscitation
15. Perform successful phlebotomy on human subjects
16. Perform successful peripheral intravenous access in human subjects
17. Describe and perform appropriate procedures for avoidance of blood borne pathogens

18. Explain and perform accurate administration of IV fluids for Tx of shock
19. Demonstrate effective methods for securing IV tubing following intravenous access
20. Demonstrate application, inflation, and deflation of the PASG.