NORTHWEST ARKANSAS COMMUNITY COLLEGE
STANDARD COURSE OUTLINE / DIVISION OF HEALTH

COURSE NAME/NUMBER:

EMTP 1011 Emergency Respiratory Care

COURSE DESCRIPTION:

The pathophysiology, assessment, and prehospital emergency treatment of the most common respiratory emergencies encountered by field paramedics. Will include discussion, interactive lecture, simulations and practical skills labs focusing on asthma, COPD, pneumonia, CHF/pulmonary edema, pulmonary embolus, toxic inhalation, ARDS, hyperventilation syndrome, RSV, Bronchiolotis as encountered in the adult and pediatric patient

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:

1 Credit Hours, 16 hours of classroom with 16 hours of lab pracitcal
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Target Audience and Transferability:

This course is not intended to transfer in to a four year institution unless the student is transferring into an institution that has a paramedic degree specifically. The sutdent will need to obtain trnsfer information from the institution he/she is transferring to in order to dertemine transferability.

STUDENT LEARNING OUTCOMES:

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

1. Describe the basic physiology of pulmonary respiration/oxygenation.
2. Describe the physiology of pulmonary gas exchange and diffusion.
3. Identify basic respiratory anatomical structures.
4. List measures of respiratory functions and normal values for each.
5. Perform effective ascultation of the chest
6. Identify abnormal breath sounds per ascultation.

7. Select appropriate oxygenation adjuncts and settings for various problems.
8. Explain parameters for pulse oximetry and limitations of use.
9. Perform a complete and rapid patient assessment for a respiratory complaint.
10. Describe the underlying patho-physiological basis for asthma, COPD, CHF, pneumonia, pulmonary embolus, and hyperventilation syndrome.
11. List appropriate treatment methodology for the above mentioned entities.
12. Identify, calculate, draw-up, and administer appropriate pharmacological regimens for the treatment of specific respiratory emergencies in adults and children.
13. Develop an effective prehospital, emergency care treatment plan for adults and children presenting with respiratory problems.

TOPICS

Respiratory Physiology
Respiratory Pathophysiology
Airway Evaluation

FORMS OF ASSESSMENT

Written exam and quizzes. Lab practical exams on simulated patients