

**NEOSHO COUNTY COMMUNITY COLLEGE
MASTER COURSE SYLLABUS**

COURSE IDENTIFICATION

Course Code/Number: ALHE 200

Course Title: Emergency Medical Technician- Intermediate

Division: Applied Science (AS) Liberal Arts (LA) Workforce Development (WD)
 Health Care (HC) Lifetime Learning (LL) Nursing Developmental

Credit Hour(s): Five (5) See notes regarding lab hours.

Effective Date: Fall 2013

Assessment Goal Per Outcome: 75%

COURSE DESCRIPTION

This course is designed for individuals interested in providing care to patients in the pre-hospital setting. The course will provide the participant with opportunities to gain information, skills, and attitudes necessary for certification and practice as an Emergency Medical Technician-Intermediate (EMT-I) in the State of Kansas. This course addresses information and techniques currently considered to be the responsibilities of the EMT-I according to the United States Department of Transportation, National Standard Curriculum, and the Kansas authorized activities for the Emergency Medical Technician-Intermediate.

This program is approved by the Board of Emergency Medical Services. It addresses information Curriculum and the Kansas authorized activities for the Emergency Medical Technician-Intermediate.

MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES

Must be a Kansas Board of EMS Certified Emergency Medical Technician.

TEXTS

The official list of textbooks and materials for this course is found on [myNeosho](#).

GENERAL EDUCATION OUTCOMES

1. Practice Responsible Citizenship through:
 - identifying rights and responsibilities of citizenship,
 - identifying how human values and perceptions affect and are affected by social diversity,
 - identifying and interpreting artistic expression.
2. Live a healthy lifestyle (physical, intellectual, social) through:
 - listing factors associated with a healthy lifestyle and lifetime fitness,
 - identifying the importance of lifetime learning,
 - demonstrating self-discipline, respect for others, and the ability to work collaboratively as a team.
3. Communicate effectively through:
 - developing effective written communication skills,
 - developing effective oral communication and listening skills.
4. Think analytically through:
 - utilizing quantitative information in problem solving,
 - utilizing the principles of systematic inquiry,
 - utilizing various information resources including technology for research and data collection.

COURSE OUTCOMES/COMPETENCIES (as Required)

1. Student should demonstrate an understanding of the roles and responsibilities of the EMT-Intermediate
2. Student should demonstrate an understanding of the emergency medical services systems
3. Student should demonstrate an understanding of the legal considerations of emergency care.
4. Student should demonstrate an understanding of proper medical terminology.
5. Student should demonstrate an understanding of proper EMS communications.
6. Student should demonstrate an understanding of general patient assessment and initial management.
7. Student should demonstrate an understanding of advanced airway management and ventilation.
8. Student should demonstrate an understanding of fluids and shock.

COURSE COMPETENCIES

The program will contain information and skill practice opportunities that will enable a properly motivated and capable participant to:

1. Demonstrate an understanding of human anatomy and physiology, and the rationale and fundamentals of the prehospital care and treatment of the sick and injured.
2. Perform an initial, focused, detailed, and ongoing patient survey.
3. Understand, recognize, and provide appropriate basic life support (BLS) and advanced interventions for life-threatening emergencies.
4. Demonstrate correct application and use of BLS equipment and equipment needed for advanced interventions in the pre-hospital setting.
5. Demonstrate a laryngoscope, suction, endotracheal tubes, and bag-valve mask.

6. Understand and recognize indications and contraindications of endotracheal intubations.
7. Discuss alternatives to endotracheal intubations.
8. Recognize and discuss the importance of methods of preventing skill deterioration.
9. Recognize the need for, and have the ability to accomplish rapid and correct ET tube placement.
10. Understand and discuss dangers and precautions when using endotracheal and oropharyngeal suctioning.
11. Understand the rationale for practicing infection control procedures during and after any contact with a patient.
12. Demonstrate correct placement of an ET tube in a manikin within 45 seconds.
13. Demonstrate ventilation with bag-valve and endotracheal intubations.
14. Demonstrate methods of assuring and maintaining correct ET tube placement.
15. Demonstrate reventilation for missed intubations.
16. Demonstrate skills describe above on both manikin and live patients.
17. Demonstrate proficiency in recognizing the need for, and giving small volume mobilization breathing treatments.
18. Complete a written record of events for the receiving hospital and a permanent record for local use (written report).
19. Communicate necessary information, in an orderly manner, to other emergency personnel or to receiving facility from the scene and/or ambulance using mobile radio equipment.
20. Understand and discuss the rationale for personal and patient safety and care at the scene and throughout transport to receiving facility.
21. Demonstrate phlebotomy techniques utilizing aseptic technique and describe significance of laboratory values following laboratory analysis.
22. Demonstrate mastery of all objectives in Kansas Board of EMS EMT-I Kansas Enrichment.

MINIMUM COURSE CONTENT

The following topics must be included in this course. Additional topics may also be included.

The Prehospital Environment

1. Roles and Responsibilities of the EMT-Intermediate
2. Emergency Medical Services Systems
3. Medical –Legal Considerations of Emergency Care.
4. Medical Terminology
5. EMS Communications
6. General Patient Assessment and Initial Management
7. Advanced Airway Management and Ventilation
8. Fluids and Shock

STUDENT REQUIREMENTS AND METHOD OF EVALUATION

INSTRUCTIONAL METHODS

Instructional methods will include lecture, audiovisuals, handouts, demonstrations, group activity, Clinical and discussion. A State Preparatory Review Course will be conducted following completion of the

required curriculum. This prepares the student to challenge the State Certifying Examination for the Emergency Medical Technician-Intermediate. This will be provided at no charge to those individuals enrolled in the EMT-I course. Additionally, the hospitals providing clinical rotations are requiring each student to have his/her own liability insurance at the student's own expense. Neosho County Community College students have this provided to them at no additional expense.

STUDENT REQUIREMENTS

Due to the volume of material to be covered and the speed at which it will be presented, attendance will be expected at all classes. The maximum allowable number of absences is four classes. (KAR 109-11-8 requires 90% of the classes be attended.) If the student is unable to attend a session for any reason; it is the responsibility of the student to let the instructor know in advance when possible. Make-up assignments will be made for each session missed. At three absences the student will receive written notification of possibly being dropped from the course. At four absences, the student will receive written notification of possibly being dropped from the course. With the fifth absence, the participant will not be allowed to continue the course or challenge the state certifying examination.

- A. **Clinical Experience:** The Instructor/Coordinator in cooperation with Neosho County Memorial Hospital in Chanute, and Anderson County/St. Luke's Shawnee Mission Hospital in Garnett, and will provide the participants the opportunity to observe and train in the clinical setting. A total of 30 hours per student of hospital clinical experience and 25 hours ambulance experience are scheduled. Ambulance clinical will be coordinated with Neosho County EMS, or Anderson County EMS. This will enable the program participant to observe and participate in the care of patients in the hospital and the pre-hospital setting. All clinical rotations will be scheduled with the instructor's permission only. The hospital clinical hours will be with the surgery staff under direction of the anesthesiologist/CRNA of the facility, who will determine whether the student has successfully completed the mastery level of competency in airway management. The ambulance rotation will be under the direction of the shift supervisor/preceptor at the facility chosen, and will be a minimum of Kansas Certified EMT-I. All student activities while in the clinical setting must be documented. The minimum clock hours to successfully complete during hospital rotation are 30 hours. Any student who fails to comply with hospital policies and procedures will be subject to disciplinary action or be dropped from the course. Each student is required to successfully initiate a minimum of 3 documented, live tissue intubations in the clinical setting, as well as the required manikin testing before being eligible to do clinical. Live intubations must be witnessed and signed off to mastery level by an Anesthesiologist, CRNA, MD, or equivalent. Each student is required to successfully administer a minimum of 2 nebulae breathing treatment's while in the clinical setting. Documentation as to mastery level of this skill is required to be signed by the student's preceptor. Each student is required to successfully administer a minimum of 20 Venial Punctures, of which 10 being for IV therapy and 10 for phlebotomy, as well as the required orientation to ambulance operations at the advanced life support level. Additional information as to appropriate attire and behavior will be addressed prior to entering the clinical setting.
- B. **Participant Attire:** Practical skills will require bending, lifting, stooping, and other means of physical exertion. Clothing should be worn that allows for comfort and movement. The student should show respect for other class members in the selection of attire. Tank tops, halter tops, and shorts are not permitted.

- C. **Participant Progress Conference:** The Instructor/Coordinator will provide the program participant with a minimum of one progress conference during the course of the program.
- D. **Participant Safety:** Good mental and physical health is necessary for an individual to maintain the pace and demands that his course entails. All students performance in both the classroom and practical setting will be overseen by the Instructor/Coordinator and/or training assistant(s). Each student will address any problems or concerns that he/she may have regarding his/her safety immediately to the individual directly involved with the training in progress. Directions given by training personnel should be followed accurately and if not understood, should be questioned to prevent any problems. All students will perform with normal regard for personal safety and the safety of patients and others involved with patient care. AT NO TIME will the student perform any act inappropriate action for the student to take. Any student who has an infectious disease (common cold, flu, hepatitis, herpes or cold sore, etc) should not participate in practical skills stations or direct patient care in the clinical or classroom setting. These students will be expected to attend class – if their condition permits- and observe others in the practical stations. The student will be held responsible for the instruction and will be expected to practice on his/her own time to maintain skill levels in keeping with class progress at the time. Real patients in the pre-hospital or hospital setting should not be put at risk from the students with an infectious disease. All manikins, airway adjuncts, etc. will be properly cleaned with disinfectant between students use. Due to the nature of the training, it is imperative that all students maintain good personal hygiene at all times. A sink and disinfecting soap are available in the area of the classroom or restrooms and will be routinely used by students when working with patients and equipment. Any student with a history of chronic health problems, pregnancy, recent surgery, or back injury, will be required to present a medical release from a physician. The instructor has the option to request that a release be obtained at his discretion. Students should each be able to lift 100-150 pounds. All students will exercise prudent lifting techniques and physical exertion when working in labs that require patient lifting, cot lifting, extrication, etc. Any time a student suffers an injury while functioning as a student, he/she will immediately report to the Instructor/Coordinator within 48 hours of occurrence.

GRADING SCALE

Written examinations are the most appropriate and effective process for measurement and assessment of the participants' success in converting content into knowledge. Practical examinations provide feedback to both the instructor and the participant of the ability of the participant to perform specific tasks. Results of written and practical examinations, quizzes, and assignments, and observational reports detailing participants' attitudes interpersonal interactions, will be considered on the final grade. A passing grade of 'C' or better for the course will constitute permission to challenge the state exam.

There will be five unit exams that will be averaged at the end of the course and will count for 60% of the final grade. There will be frequent daily assignments and quizzes that will count for 20% of the final grade. The remaining 20% will include the final written and practical exam, and attitude and classroom participation.

Practical exams will be administered during the program must be successfully completed in order to continue. Testing will be conducted on a pass/fail basis. At the instructor's discretion, a second opportunity to demonstrate competency on skills may be arranged prior to the end of class. Failure to

show consistent and appropriate progress in skills' acquisition will result in the participant's possibility of being dropped from the course or not receiving permission to challenge the state certifying exam.

The grading scale will be as follows:

A=90-100% B=80-89% C=70-79% D=60-69% F<60%

A score of 75% is required on the final written exam.

NOTE: The candidate must be 18 years of age to challenge the state certifying exam.

ASSESSMENT OF STUDENT GAIN

Assessment begins at the beginning of the course when the instructor and the student determine through conference and observation the skill level of the student. During the beginning of the class each student will be observed and/or interviewed and initial exercises will be examined to determine needed competency development throughout the course. Both the student and instructor will analyze student gain at the conclusion of the course through both written and practical evaluation.

State Certification Requirements

- A. The candidate must be 18 years of age.
- B. The candidate must successfully complete an approved training program.
- C. If the candidate has been convicted of a felony, he/she must demonstrate to the Board of EMS that they have been admonished.
- D. Make application for certification within one year of the date of the last class.
- E. The candidate must successfully pass the State Certifying Examination.
- F. Must be a Kansas certified Emergency Medical Technician Basic.

Continuing Education

This course only part of the participant's experience in EMS. The participant should plan to devote sufficient time and effort to maintain certification in compliance with requirements set by Kansas Administrative Regulation 109-5-1. It is essential to maintain an appropriate level of knowledge and proficiency in patient care skills.

Attendance Policy

1. NCCC values interactive learning which promotes student engagement in the learning process. To be actively engaged, the student must be present in the learning environment.
2. Unless students are participating in a school activity or are excused by the instructor, they are expected to attend class. If a student's absences exceed one-eighth of the total course duration, (which equates to one hundred (100) minutes per credit hour in a face-to-face class) the instructor has the right, but is not required, to withdraw a student from the course. Once the student has been dropped for excessive absences, the registrar's office will send a letter to the student, stating that he or she has been dropped. A student may petition the chief academic officer for reinstatement by submitting a letter stating valid reasons for the absences within one week of the registrar's

notification. If the student is reinstated into the class, the instructor and the registrar will be notified. Please refer to the Student Handbook/Academic Policies for more information

3. Absences that occur due to students participating in official college activities are excused except in those cases where outside bodies, such as the State Board of Nursing, have requirements for minimum class minutes for each student. Students who are excused will be given reasonable opportunity to make up any missed work or receive substitute assignments from the instructor and should not be penalized for the absence. Proper procedure should be followed in notifying faculty in advance of the student's planned participation in the event. Ultimately it is the student's responsibility to notify the instructor in advance of the planned absence.

ACADEMIC INTEGRITY

NCCC expects every student to demonstrate ethical behavior with regard to academic pursuits. Academic integrity in coursework is a specific requirement. Definitions, examples, and possible consequences for violations of Academic Integrity, as well as the appeals process, can be found in the College Catalog, Student Handbook, and/or Code of Student Conduct and Discipline.

ELECTRONIC DEVICE POLICY

Student cell phones and other personal electronic devices not being used for class activities must not be accessed during class times unless the instructor chooses to waive this policy.

NOTE

Information and statements in this document are subject to change at the discretion of NCCC. Students will be notified of changes and where to find the most current approved documents.

ACCOMMODATIONS

If you are a student with a disability who may need accommodation(s), in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, please notify the Dean of Student Services in the Student Services Office, Sanders Hall, 620-432-0304, on the Chanute Campus, or the Dean for the Ottawa and Online Campuses, 785-248-2798, on the Ottawa Campus as soon as possible. You will need to bring your documentation for review in order to determine reasonable accommodations, and then we can assist you in arranging any necessary accommodations.

NON-DISCRIMINATION POLICY

The following link provides information related to the non-discrimination policy of NCCC, including persons with disabilities. Students are urged to review this policy.

<http://www.neosho.edu/Departments/NonDiscrimination.aspx>

SEXUAL MISCONDUCT POLICY (TITLE IX)

At NCCC, it is the responsibility of an instructor to help create a safe learning environment in the classroom, including both physical and virtual classrooms. All instructors are considered mandatory reporters at NCCC, therefore any information regarding sexual misconduct that is shared by a student in one-on-one meetings with the instructor must be reported to appropriate personnel at the College. Instructors will keep the information private to the greatest extent possible, but it is not confidential. Generally, climate surveys, classroom writing assignments or discussions, human subjects research, or events such as Take Back the Night events do not provide notice that must be reported to the Coordinator by employees, unless the reporting party clearly indicates that they wish a report to be made.

The following link provides information related to the sexual misconduct policy of NCCC, including resources, reporting options, and student rights. Students are urged to review this policy.

<http://www.neosho.edu/TitleIX.aspx>

COURSE NOTES

Lab Hours 25 - (1 Credit hour)