

5/1/2025

DATE



REQUIRED COURSE



ELECTIVE COURSE

AHD

DIVISION



NEW COURSE



REVISION

# Lake Land College

## Course Information Form

<b>COURSE NUMBER:</b>		EMS-047		<b>TITLE: (30 Characters Max)</b>			Fundamentals of EMS						
<b>SEM CR HRS:</b>	6.0	<b>Lecture:</b>		6.0	<b>Lab:</b>	0.0	<b>ICCB Lab:</b>	0.0	<b>ECH:</b>	6.0			
<b>Course Level:</b>	<input type="checkbox"/> Gen Ed/IAI <input type="checkbox"/> Baccalaureate/Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/Not in Degree Audit		<b>Clinical Practicum:</b>	0.0	<b>Work-based Learning:</b>	0.0	<b>WBL ECH:</b>	0.0			
<b>COURSE PCS #</b>	12 - 51.0904		<b>IAI Code</b>		N/A			<b>Contact Hours (Minutes/Week)</b>					
<b>Repeatable (Y/N):</b>	Y	<b>Pass/Fail (Y/N):</b>	N	<b>Variable Credit (Y/N):</b>	N	<b>Min:</b>		<b>Max:</b>		16 Wks	300	8 Wks	600
<b>Prerequisites:</b>	Must be at least 18 years of age, with a high school diploma or GED at the time of board testing. Immunizations: Hepatitis B, TB, DT/Tetanus, MMR, Varicella (if you have immunizations, a copy of what you have is acceptable), physical exam, copy of current driver's license or state ID, background check and 12-panel drug screening.												
<b>Corequisites:</b>	Must take concurrently with EMS-048 lab course and EMS-049 work-based learning course and pass all three during the same semester.												
<b>Catalog Description: (40 Word Limit)</b>	This course provides the student with an understanding of his/her roles and responsibilities within the EMS system, including operations, patient assessment and emergency medical care. Students completing this course, EMS-048 and EMS-049 are eligible to take the NREMT EMT-Basic Licensing Examination. (Repeatable 3 Times)												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Preparatory	12			
Airway	15			
Patient assessment	15			
Medical	22			
Trauma	14			
Infants and children	6			
Operations	6			
<b>TOTAL</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>0</b>

EVALUATION			
<b>QUIZZES</b>	<input checked="" type="checkbox"/>	<b>EXAMS</b>	<input checked="" type="checkbox"/>
<b>LAB WORK</b>	<input type="checkbox"/>	<b>PROJECTS</b>	<input type="checkbox"/>
		<b>ORAL PRES</b>	<input type="checkbox"/>
		<b>COMP FINAL</b>	<input checked="" type="checkbox"/>
		<b>PAPERS</b>	<input type="checkbox"/>
		<b>OTHER</b>	<input type="checkbox"/>

COURSE MATERIALS	
<b>TITLE:</b>	Emergency Care and Transportation of the Sick and Inju
<b>AUTHOR:</b>	American Academy of Orthopedic Surgeons
<b>PUBLISHER:</b>	Jones and Bartlett
<b>VOLUME/EDITION/URL:</b>	12th
<b>COPYRIGHT DATE:</b>	2021

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Preparatory	12	1. Describe and discuss the roles and responsibilities, personal safety and well-being. 2. Identify medical-legal and ethical issues in traumatic and medical situations. 3. Identify the basic human anatomy and physiology.

Airway	15	<ol style="list-style-type: none"> <li>1. Distinguish the signs and symptoms of upper and lower airway diseases.</li> <li>2. Describe the basic anatomy and physiology of the respiratory system and demonstrate proper airway management using a variety of techniques and airway adjuncts.</li> <li>3. Describe the use of Capnography while monitoring a patient.</li> <li>4. Describe how to use pharmacological agents treat respiratory emergencies.</li> <li>5. Describe the use of airway devices in the treatment of all patients.</li> </ol>
Patient assessment	15	<ol style="list-style-type: none"> <li>1. Identify the proper components of patient assessment and initial management of patients in all emergency situations.</li> </ol>
Medical	22	<ol style="list-style-type: none"> <li>1. Identify the steps of the acquisition and submission of 12-Lead ECG data to medical control.</li> <li>2. Demonstrate the steps to assess a patient with mental health complications..</li> <li>3. Contrast signs and symptoms of thrombotic vs. hemorrhagic stroke.</li> <li>4. Identify the signs and symptoms of drug and alcohol overdoses.</li> <li>5. Identify the signs and symptoms of endocrinology emergencies.</li> <li>6. Identify signs and symptoms of GI bleeding.</li> <li>7. Discuss gynecological principles and assessment findings.</li> <li>8. Demonstrate an understanding of the anatomy and physiology of the female reproductive system.</li> <li>9. Describe complications of pregnancy and childbirth.</li> <li>10. Demonstrate care of the mother and infant post-delivery.</li> <li>11. Identify the need to activate the EMS system at a higher level of care for patients in medical emergencies</li> </ol>
Trauma	14	<ol style="list-style-type: none"> <li>1. Describe the assessment and management of a patient suffering from a traumatic emergency.</li> <li>2. Discuss the pathophysiological principles and assessment findings of hemorrhage and shock.</li> <li>3. Predict the likelihood of injuries based on the patient's mechanism of injury.</li> <li>4. Discuss the pathophysiological principles and assessment findings of burns.</li> <li>5. Formulate a treatment plan for patients involved in traumatic emergencies.</li> <li>6. Discuss the pathophysiological principles and assessment findings of burns.</li> <li>7. Identify the need to activate the EMS system at a higher level of care for patients in traumatic situations.</li> </ol>
Infants and children	6	<ol style="list-style-type: none"> <li>1. Describe and demonstrate the difference between pediatric and adult patients and how these differences affect patient assessment and management.</li> <li>2. Discuss caregiver's response to emergencies.</li> <li>3. Discuss signs and symptoms of child abuse.</li> <li>4. Discuss children with special health care needs.</li> <li>5. Discuss Sudden Infant Death Syndrome and the effects on family.</li> <li>6. Discuss illness and injury prevention.</li> </ol>
Operations	6	<ol style="list-style-type: none"> <li>1. Describe and discuss general EMS operations, MCI management and hazardous materials management as they relate to the EMT-Basic.</li> <li>2. Describe the standards and guidelines that help ensure safe and effective ground and air medical transport.</li> <li>3. Describe safe vehicle operation.</li> </ol>

<b>Outcomes*</b>	<b>Outcome Title</b>	<b>At the successful completion of this course, students will be able to:</b>
Course Outcome 1	EMS Sys Elements	Identify elements of an EMS system.
Course Outcome 2	EMT Role in System	Describe the EMT's role within the system.
Course Outcome 3	EMS Decr Mortality	Explain the EMT's role in decreasing mortality and morbidity in the trauma patient at any age.
Course Outcome 4	Var Med Disorders	Describe the management sequence for the patient with various medical disorders at any age.
Course Outcome 5	Obstetric Plan	Identify signs, symptoms and treatment plans for obstetrical patients during the delivery process.
Course Outcome 6	Pharm Ind Contra	List indications/contraindications of all basic pharmacological agents given in the prehospital setting.
Primary Laker Learning Competency Scientific Literacy: Students apply the scientific process to real-life situations.		
Secondary Laker Learning Competency	Global & Cultural Literacy: Students distinguish that society is a culturally diverse and global environment with differing opinions, practices and ideas.	

\*Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency.