Paramedic Technology

AS- Paramedic Technology

Couse Abbreviation	Program Student Learning Outcomes / Course Level Learning Competencies	Perform a Patient Interview and History Taking and Interpret the results.	Perform and Interpret a Physical Examination and Assessment	Determine the appropriate Diagnosis/Differential Diagnosis list/ and Formulate an appropriate Treatment Plan	Develop and Demonstrate the Skills necessary to deliver patient care.	Make use of appropriate Communication techniques and formats	Identify Professional Behavior/Affect and successfully Integrate into patient care scenarios.	Evaluate and Adapt Team Performance to fit the situational needs	Develop and Effectively Utilize Operational/Situational Awarencess	Appraise Professional Responsibilities
EMS103 Introduction to Paramedicine	Define the role of the paramedic and describe how this role functions within healthcare.	I	I	I	I	I	I	I	I	I
	Define EMS and describe EMS Systems that are currently found within the USA and the world.	I	I	I	I	I	I	I	I	I
	Describe the types of Communication systems employed within EMS.	I	I	I	I	I	I	I	I	I
	Describe the working conditions typically found in EMS, and safety concerns with each.	I	I	I	I	I	I	I	I	I
	Medical-Legal considerations in EMS.	I	I	I	I	I	I	I	I	I
EMS104 Pharmacology	Describe how drugs are classified				I,R					I,R
	Discuss the paramedic's responsibilities and scope of management pertinent to the administration of medications	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Review the specific anatomy and physiology pertinent to pharmacology with additional attention to autonomic pharmacology	I,R	I,R	I,R	I,R	I,R		I,R	I,R	I,R
	Describe the process called pharmacokinetics, pharmacodynamics, including theories of drug action, drug response relationship, factors altering drug responses, predictable drug responses, iatrogenic drug responses, and unpredictable adverse drug responses	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Integrate pathophysiological principle of pharmacology with patient asessment	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Demonstrate the ability to administer medications safely and effectively within the scope of practice for a paramedic	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS105 Pharm Lab	Integrate pathophysiological principle of pharmacology with patient asessment	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Demonstrate the ability to administer medications safely and effectively within the scope of practice for a paramedic	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS106 Medical Emergencies	Take a proper history and perform a comprehensive physical exam on any patient, and communicate the findings to others.	I,R	I,R	I,R		I,R	I,R	I,R	I,R	I,R
	Integrate the principles of history taking and techniques of physical exam to perform a patient assessment.	I,R	I,R	I,R		I,R	I,R	I,R	I,R	I,R
	Outline the critical steps in initial patient assessment.	I,R	I,R	I,R		I,R	I,R	I,R	I,R	I,R
	Discuss interventions for life-threatening conditions that are identified in the initial assessment.		I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Distinguish the pathophysiology of respiratory emergencies related to ventilations, diffusion, and perfusion.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Describe the causes, complications, signs and symptoms, and prehospital management of patients diagnosed with obstructive and or restrictive pulmonary conditions.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Discuss pathophysiology discussion of key signs and symptoms, patient assessment, and patient management for diabetes and diabetic emergencies of hypoglycemia, diabetic ketoacidosis, and hyperglycemic non ketotic coma.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Outline the physical examinations and discuss general prehospital management for the patient with genitourinary disorder.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Distinguish between acute and chronic renal failure.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Describe the pathophysiology, signs and symptoms, and specific management techniques for each of the neurological disorders.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Describe the pathophysiology of nontraumatic causes of abdominal pain in females.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
	Describe the pathophysiology of cardiac conditions.	I,R	I,R	I,R		I,R		I,R	I,R	I,R
EMS107 Med Emergencies Lab	Take a proper history and perform a comprehensive physical exam on any patient, and communicate the findings to others.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Integrate the principles of history taking and techniques of physical exam to perform a patient assessment.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Outline the critical steps in initial patient assessment.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Discuss interventions for life-threatening conditions that are identified in the initial assessment.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Devolope a diagnosis and a differential diagnosis, and then formulate and implement a treatment plan for the patient.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS108 Trauma Emergencies	Integrates comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Integrates a comprehensive knowledge of the causes and pathophysiology into the management of shock, respiratory failure or arrest with an emphasis on early intervention to prevent arrest.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment/disposition plan for an acutely injured patient.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Perform a trauma assessment, including life saving interventions and affects timely interventions including rapid transport to an appropriate facility.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R

EMS109 Trauma Lab	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and then implement a comprehensive treatment/disposition plan for an acutely injured patient.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS110 Cardiovaascular	Identify risk factors and prevention strategies associated with cardiovascular disease.	I,R	I,R	I,R		I,R	I,R	I,R	I,R	I,R
	Describe the normal physiology of the heart		I,R	I,R		I,R	I,R		I,R	I,R
	Outline the appropriate assessment of a patient who may be experiencing a cardiovascular disorder	I,R	I,R	I,R		I,R	I,R	I,R	I,R	I,R
	Describe basic monitoring techniques that permit electrocardiogram interpretations		I,R	I,R	I,R	I,R				I,R
	When shown an electrocardiogram tracing, identify the rhythm, site of origin, possible causes, clinical significance, and prehospital management that is indicated	I,R	I,R	I,R	I,R				I,R	I,R
	Describe prehospital assessment and management of patient with selected cardiovascular disorders based on knowledge of the pathophysiology of illness	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	List indications, contraindications, and prehospital considerations when using selected cardiac interventions, including basic life support, monitor-defibrillators, implantable cardioverter-defibrillators, synchronized cardioversion, and transcutaneous cardiac pacing	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	List indications, contraindications, and mechanisms of action for pharmacological agents used to manage cardiovascular disorders	I,R	I,R	I,R	I,R					I,R
EMS111 Cardio Lab	Perform an assessment and identify a working diagnosis and a differential diagnosis, formulate and implement a treatment plan, including transport to the closes appropriate facility.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	List indications, contraindications, and prehospital considerations when using selected cardiac interventions, including basic life support, monitor-defibrillators, implantable cardioverter-defibrillators, synchronized cardioversion, and transcutaneous cardiac pacing	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS112 Special Populations	Identify the special populations that the paramedic will encounter; neonatal, pediatric, geriatric, and complex social-medical situations.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Perform patient assessments for each category, and define the expected normal findings for each.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Formulate treatment plans for each of the categories and their anticipated pathophysiology.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Identify and utilize available reources in order to facilitate the delivery of care to this patient subset.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS113 Spec Pop Lab	Perform patient assessments for each category, and define the expected normal findings for each	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Formulate treatment plans for each of the categories and their anticipated pathophysiology.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
	Identify and utilize available reources in order to facilitate the delivery of care to this patient subset.	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R	I,R
EMS201 Paramedic Clinical Rotation	Conduct an appropriate patient interview while obtaining a patient history for all age groups and special populations.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Perform a physical exam and assessment that identifies all life threatening issues and primary conditions that require interventions.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Integrate acquired information to generate a diagnosis along with a differential diagnosis list; then formulate a treatment plan for the patient.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Demonstrate interventions and skills performance appropriate for the nees of the patient and within the scope of practice of a paramedic.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Make us of appropriate communication techniques and media, ensure continuity of care and data retention/security.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Conduct oneself with the demeenor and affect expected from a healthcare professional.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Identify the role of the paramedic within various healthcare settings, and create cohesive cross-disciplinary teams or adapt within the team already present.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Define the conditions within the area of opeearation that may or will impact the delivery of care to the patient.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Discuss how professional responsibilities were addressed during or following the patieint interaction.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
EMS202 Paramedic Field Experience	Conduct an appropriate patient interview while obtaining a patient history for all age groups and special populations.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Perform a physical exam and assessment that identifies all life threatening issues and primary conditions that require interventions.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Integrate acquired information to generate a diagnosis along with a differential diagnosis list; then formulate a treatment plan for the patient.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Demonstrate interventions and skills performance appropriate for the nees of the patient and within the scope of practice of a paramedic.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Make us of appropriate communication techniques and media, ensure continuity of care and data retention/security.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Conduct oneself with the demeenor and affect expected from a healthcare professional.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Identify the role of the paramedic within various healthcare settings, and create cohesive cross-disciplinary teams or adapt within the team already present.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Define the conditions within the area of opeearation that may or will impact the delivery of care to the patient.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Discuss how professional responsibilities were addressed during or following the patieint interaction	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Apply all that you have learned and manage a patient without the direction or intervention of a preceptor.	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E	R,E
	Capstone: Independent practice, all of above included.	E	E	E	E	E	E	E	E	E