## SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

## ACADEMIC AFFAIRS

			150							
			mins		2 hrs					
		Class/Lect.	per	Lab	per					
Course Number:	MED 107 & 107L	Hours:	wk	Hours:	wk	Credits:	3 & 1	Dept.:	Medical Assisting	ng
		-								
Course Title:	MEDCIAL ASSISTI	NG TECH	NIQUE	ES 2		Sen	nester:	Spring	Year:	2018

## **Course Description, Prerequisite, Corequisite:**

This course is a continuation of advanced theory and skills in medical assisting techniques. Selected laboratory procedures will include minor surgery, cardio-pulmonary resuscitation, emergencies, electrocardiography, injections and the modalities used in physical therapy.

Corequisite(s): MED 107L

## **OBJECTIVES/COMPETENCIES**

	Course Objectives		Competencies
Minor	Office Surgery	Minor	Office Surgery
1.	Define the following as practiced within within an ambulatory	1. 5	Select appropriate barrier/personal equipment (PPE).
	care setting: Surgical Asepsis.	2.	Apply sterile gloves and remove contaminated gloves.
2.	State the characteristics of a minor surgical procedure.	3. ]	Prepare and cover a sterile field without contamination.
3.	Identify procedures that require the use of surgical asepsis.	4. ]	Properly open wrapped and commercially prepared sterile items
4.	Describe the MA's responsibilities during a minor surgical	,	without contamination.
	procedure.	5.	Add sterile items to a sterile field.
5.	Define personal protective euipement for all body fluids,	6.	Perform within a sterile field.
	secretions, excretions and blood.	7. ]	Pour a sterile solution.
6.	List the guidelines to follow to maintain surgical asepsis's during	8. ]	Perform wound care.
	a sterile procedure.	9. ]	Remove sutures.
7.	Identify and explain the use and care of instruments commonly	10. ]	Perform dressing change; Remove and Apply a dry sterile
	used in minor office surgery.	(	dressing.
8.	Dicuss protocols for disposal of biological chemical materials	11.	Instruct and prepare a patient for a procedure or treatment
9.	Explain the differences between a closed and an open wound, and give examples.	12. ]	Demonstrate proper disposal of biohazardous material: Sharps and regulated waste.
10.	List and explain the three phases of the healing process.	13.	Demonstrate proper use of Sharps disposal container
11.	List and describe the different types of wound drainage.	14. (	Coach a patient regarding a treatment plan.
12.	List the functions of a dressing.	15. 5	Show awawrenes of a patient's concnerns related to the
13.	Explain the method used to measure the diameter of suturing	1	procedure being performed.
	material.	16.	Recognize the implications for failure to comply with Center for
14.	Describe the two types of sutures (absorbable and non-	]	Disease (CDC) regulations in healthcare.
	absorbable) and give examples of their uses.		
15.	Categorize suturing needle according to type of point and shape.		
16.	Explain the purpose of and procedure for each of the following		
	minor surgical operations: sebaceous cyst removal, incision and		
	drainage of a localized infection, mole removal, needle biopsy		
	and ingrown toenail removal.		
17.	Explain the principles underlying each step in the minor office		

Course Objectives	Competencies
Course Objectives           surgery procedures.           18. State the function of a bandage and list the guidelines for applying a bandage.           19. Identify the common types of bandages used in the medical office. <b>Cardiopulmonary Procedures</b> 1. State the purpose of electrocardiography.           2. Identify each of the following components of the ECG cycle, P wave,QRS complex T wave, PR segment, PR interval, QT interval, baseline following the T wave.           3. State the purpose of the standardization mark.           4. State the functions of the electrodes, amplifier, and galvanometer.           5. List the 12 leads that are included in an ECG.           6. Describe the function served by each of the following: Three channel recording, Interpretive electrocardiography, Electronic Medical Record connectivity, Tele transmission.           7. Identify each of the following types of artifact, and state its cause: Muscle (Somatic Tremor), Wandering baseline, 60 cycle Interference, Interupted baseline.           8. List the reasons for applying a Holter monitor.           9. List the three categories of cardiac dysrhythmias.           10. State examples of cardiac dysrhythmias.           11. List the different pulmonary function tests.           12. List indications for performing spirometry testing.           13. Describe patient preparation for spirometry.           14. Explain the purpose of post bronchodilator spirometry.           15. Identify the symptoms of an asthma att	Cardiopulmonary Procedures 1. Perform Electrocardiography. 2. Perform Pulmonary Function Testing. 3. Instruct and prepare patient for a procedure and treatment.

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Course Objectives	Competencies
<ul> <li>21. Identify the conditions that may require home oxygen delivery systems.</li> <li>22. List and describe the three common types of oxygen delivery systems.</li> <li>23. List and describe the two types of devices used to administer home oxygen therapy.</li> <li>24. Describe oxygen administration safety guidelines.</li> </ul>	
<ul> <li>Emergency Medical Procedures and First Aid <ol> <li>State the purpose of first aid</li> <li>Explain the purpose of the emergency medical services EMS (system).</li> <li>List the OSHA standard for administering first aid.</li> <li>List the Guidelines that should be followed when providing emergency care.</li> <li>List and describe conditions that cause respiratory distress.</li> <li>List the symptoms of a heart attack and a stroke.</li> <li>Explain the causes of each of the following types of shock: cardiogenic, neurogenic, anaphylactic, and psychogenic.</li> <li>Identify and describe the three classifications of external bleeding.</li> </ol> </li> </ul>	<ul> <li>Emergency Medical Procedures and First Aid</li> <li>1. Take and pass Provider/professional level CPR and provide up to date documentation.</li> <li>2. Perform first aid procedures for; bleeding, diabetic coma or insulin shock, fractures, seizures, shock, and syncope.</li> <li>3. Demonstrate bandaging.</li> </ul>
<ul> <li>9. Explain the difference between an open would and a closed wound.</li> <li>10. Describe the characteristics of each of the following fractures: impacted, greenstick, transverse, oblique, comminuted and spiral.</li> <li>11. Identify the characteristics of each of the following burns: superficial, partial-thickness, and full-thickness.</li> <li>12. Explain the difference between a partial seizure and a generalized seizure.</li> <li>13. List examples of each of the following types of poisoning: ingested, inhaled, absorbed, and injected.</li> <li>14. Identify factors that place an individual at higher risk for developing heat-related and cold-related injuries.</li> <li>15. Describe the differences between type 1 and type 2 diabetes</li> </ul>	

	Course Objectives	Competencies
mellitus. 16. Explain the car 17. Identify the syn the following of shock, syncope burns, seizures emergencies. 18. List the princip 19. Describe basic ambulatory hea	uses of insulin shock and diabetic coma. mptoms and describe emergency care for each of conditions: respiratory distress, heart attack, stroke, e, bleeding, wounds, musculoskeletal injuries, , poisoning, heat and cold exposure, and diabetic oles and steps of professional/provider CPR. principles of first aid as they pertain to the althcare setting.	
<ol> <li>Physical Agents to Physical Agents to Physical Agents to Physical State the factor</li> <li>State the factor</li> <li>List the effects applying heat.</li> <li>List the effects applying cold.</li> <li>List factors that prescribed.</li> <li>Explain the diffect crutch.</li> <li>State condition fitted properly.</li> <li>List the guidelis safe use of crut</li> <li>State the use of two-point gait, gait.</li> <li>List and descrift.</li> <li>List and descrift.</li> </ol>	<b>comote Tissue Healing</b> of moist and dry applications of heat and cold. is to consider when applying heat and cold. of local application of heat, and state reasons for of local application of cold, and state reasons for are taken into consideration when ambulatory aids are ference between an axillary crutch and a forearm as that may result when axillary crutches are not ines that should be followed bythe patient to ensure thes. f each of the following crutch gaits: four-point gait, three-point gait, swing-to gait, and swing through be the three types of canes. tient conditions that warrant the use of a cane or	Physical Agents to Promote Tissue Healing 1. Demonstrate types of crutch gaits: four-point gait, two-point gait, three-point gait, swing-to gait, and swing through gait.

Course Objectives	Competencies
<ul> <li>Wheel Chair Transfer</li> <li>1. Explain the purpose of a wheelchair.</li> <li>2. Explain the safety precations when using a wheelchair.</li> <li>3. Describe the purose of a transfer belt.</li> </ul>	<ul> <li>Wheel Chair Transfer</li> <li>1. Assisting a Patient to stand with and without a gait belt.</li> <li>2. Properly and safely tranfer patient from wheelchair to table and from table to wheelchair.</li> <li>3. Demonstrate wheelchair safety.</li> <li>4. Use of proper body mechanics.</li> </ul>
<ul> <li>Administration of Parenteral Medication and Intravenous Therapy <ol> <li>Explain the difference among administering, prescribing and dispensing medications.</li> <li>State the common routes for administering medications.</li> <li>Explain the purpose of a medication record.</li> <li>Describe the factors that affect the action of drugs in the body.</li> <li>List the guidelines for preparing and administering medication</li> <li>State the advantages and disadvantages of the parenteral route of administration.</li> <li>Identify the parts of a needle and syringe and explain their functions.</li> <li>State the ranges of gauge and length of needles for each of the following injections: intradermal, subcutaneous, and intramuscular.</li> <li>State the purpose of safety-engineered syringes.</li> <li>Describe the dispensing units available for injectable medications.</li> <li>List the medications commonly administered through each of the following routes: intradermal, subcutaneous, and intramuscular.</li> <li>Explain the reason for administering medication with the Z-track method.</li> <li>Explain the difference between active and latent tuberculosis.</li> <li>Explain the difference between active and latent tuberculosis.</li> </ol></li></ul>	<ul> <li>Administration of Parenteral Medication and Intravenous Therapy <ol> <li>Verify the rules of medication administration: <ol> <li>right patient</li> <li>right medication</li> <li>right medication</li> <li>right route</li> <li>right documentation</li> </ol> </li> <li>Prepare parenteral medication</li> <li>Select proper sites for administering parenteral medications.</li> <li>Adminster a parenteral medication (IM).</li> <li>Adminster a subcutaneous injection.</li> </ol> </li> </ul>

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Course Objectives	Competencies
tuberculin test.	
17. Explain the significance of a positive reaction to a tuberculin test.	
18. List the diagnostic procedures that might be performed following	
a positive tuberculin test.	
19. State the guidelines that should be followed when administering	
and reading a Mantoux tuberculin skin test.	
20. State the advantages of the tuberculosis blood test.	
21. Define an allergy, and name common allergens.	
22. Explain what occurs during an allergic reaction.	
23. List the guidelines for direct skin allergy testing.	
24. State the purpose of each of the following types of allergy tests:	
patch testing, skin-prick testing, intradermal skin testing, and in	
vitro blood testing.	
25. Explain the advantages of outpatient intravenous (IV) therapy.	
26. Identify the role of the entry-level medical assistant in IV therapy.	
27. State the indications for outpatient IV therapy.	