

MA-2413: ADVANCED CLINICAL MEDICAL ASSISTING

Cuyahoga Community College

Viewing: MA-2413 : Advanced Clinical Medical Assisting

Board of Trustees:

2015-06-25

Academic Term:

Fall 2020

Subject Code

MA - Medical Assisting

Course Number:

2413

Title:

Advanced Clinical Medical Assisting

Catalog Description:

Theory necessary for the medical assistant (MA) to perform and assist with advanced procedures in the physician's office, clinic, and other ambulatory settings. Coverage of body systems in relation to specialized exams/treatments, laboratory/diagnostic.

Credit Hour(s):

3

Lecture Hour(s):

3

Requisites

Prerequisite and Corequisite

MA-1321 Medical Office Laboratory Procedures, and MA-132L Medical Office Laboratory Procedures Lab, and MA-1402 Basic Clinical Medical Assisting, and MA-140L Basic Clinical Medical Assisting Lab, and MA-1503 Administrative Procedures for the Medical Office, and MA-150L Administrative Procedures Laboratory, and concurrent enrollment in MA-241L Advanced Clinical Assisting Lab.

Outcomes

Course Outcome(s):

Research and recognize the diseases and disorders common to the eyes and ears.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the eye.
2. Explain the differences among an ophthalmologist, optometrist, and an optician.
3. Summarize the anatomy and physiology of the external, middle, and inner ear.
4. Summarize typical disorders of the eye.
5. Define the major disorders of the ear, including otitis, impacted cerumen, and Meniere's disease.
6. Describe the conditions that can lead to hearing loss, including conductive, neurogenic and congenital hearing losses.
7. Explain the purpose of eye irrigations and the instillation of medication.
8. Explain the purpose of ear irrigations and instillation of ear medication.
9. Describe the effect of sensory loss on patient education.

Course Outcome(s):

Identify, demonstrate competency, and differentiate classifications of medications effecting multiple systems in the body.

Objective(s):

1. Distinguish between different classifications of medications.
2. Compare and contrast medication indications of use, desired effects and adverse reactions.
3. Name the safety rules of medication administration.
4. Identify medications in relation to body systems.
5. Describe proper administration of medications in relation to body systems and site location.
6. Explain the purpose of patient education in relation to administration of medication.

Course Outcome(s):

Explain, analyze and evaluate the methods for assisting in the care of the pediatric population.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Objective(s):

1. Describe childhood growth patterns.
2. Identify different growth and development theories.
3. Classify common infectious, congenital, and other diseases of the pediatric population.
4. Summarize the current recommendations for childhood immunizations from the Centers for Disease Control (CDC).
5. Compare and contrast a well-child and a sick-child examination.
6. Describe the needs of the adolescent patient during the examination.
7. Describe patient education guidelines for the pediatric patient and caregivers to include pediatric growth charts.
8. Explain the common signs of child abuse and neglect as they relate to the physical exam.

Course Outcome(s):

Research and recognize the common diseases and disorders of the digestive system.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Describe the primary functions of the GI system.
2. Summarize the anatomy and physiology of the gastrointestinal system.
3. Explain the purpose and steps for telephone screening for patients with GI complaints.
4. Describe common esophageal and gastric disorders, the signs and symptoms, diagnostic tests, and treatments.
5. Describe intestinal disorders, the signs and symptoms, diagnostic tests, and treatments.
6. Classify disorders of the liver and gallbladder and list the signs and symptoms, diagnostic tests, and treatments.
7. Describe the medical assistant's role in the proctologic examination.
8. Describe the similarities and differences among the various forms of infectious viral hepatitis.

Course Outcome(s):

Research and recognize the common diseases and disorders of the male reproductive system.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the male reproductive system.
2. Identify the primary signs and symptoms of male reproductive system disorders.
3. Compare and contrast infections and inflammations of the male reproductive system.
4. Describe male reproductive cancers.
5. Determine the causes and effects of prostate disorders.
6. Explain the purpose and steps for accurately performing patient education for the testicular self-examination.
7. Analyze the effects of sexually transmitted diseases in men.
8. Summarize the characteristics of HIV infection and the diagnostic criteria and treatment protocols.
9. Apply critical thinking skills in performing the patient assessment and patient care.

Course Outcome(s):

Research and recognize the common diseases and disorders of the obstetrics and gynecological systems.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the female reproductive system.
2. Compare current contraceptive methods.
3. Distinguish among different types of female gynecologic infections.
4. Explain the purpose and steps for teaching the patient the technique for a breast self-examination.
5. Compare the positional disorders of the pelvic region.
6. Describe the common complications of pregnancy.
7. Specify the signs, symptoms, and treatments of conditions related to menopause.

Course Outcome(s):

Research and recognize the common diseases and disorders in the Musculoskeletal system.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the musculoskeletal system.
2. Summarize the major muscular disorders.
3. Identify and describe the common types of fractures and bone disorders.
4. Explain the various types of body movement to include, flexion, extension, adduction, abduction, rotation, circumduction, inversion, eversion, pronation and supination.
5. Explain the common diagnostic procedures used in orthopedics.

Course Outcome(s):

Research and recognize the diseases and disorders of the neurological system.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the nervous system.
2. Differentiate between the central and peripheral nervous systems to include the subdivisions of the peripheral nervous system.
3. Identify the typical symptoms associated with neurologic disorders.
4. Describe the pathology of cerebrovascular diseases.
5. Summarize the neurologic diseases that affect mobility.
6. Differentiate among common mental health disorders.
7. Explain the common diagnostic procedures for the nervous system.

Course Outcome(s):

H. Research and recognize the common diseases and disorders of the respiratory system.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the respiratory system.
 2. Explain the process of ventilation.
 3. Describe the infections and inflammations of the respiratory system.
 4. Explain the purpose and the steps to teach a patient how to use a peak flow meter.
 5. Describe the cancers associated with the respiratory system.
 6. Explain the purpose and the steps for teaching a patient how to use a spirometer.
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Course Outcome(s):

Explain, analyze and evaluate the methods for assisting in the care of the geriatric population.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Objective(s):

1. Analyze the impact of a growing aging population on society.
 2. Describe the effects of the sensorimotor changes of aging.
 3. Explain the changes caused by aging in each of the body systems.
 4. Analyze the major diseases and disorders faced by older patients.
 5. Describe various screening tools for dementia, depression, and malnutrition.
 6. Analyze the role of the MA in caring for aging patients.
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Course Outcome(s):

Research and recognize the common diseases and disorders of the integumentary system.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Summarize the anatomy and physiology of the integumentary system.
 2. Explain the major functions of the integumentary system.
 3. Compare various skin lesions.
 4. Describe common integumentary system infectious, autoimmune, or inflammatory diseases and disorders.
 5. Recognize and describe thermal injuries to the skin.
 6. Explain the grading and staging of malignant tumors.
 7. Explain the purpose and the steps for educating patients on the warning signs of cancer.
 8. Summarize allergy testing procedures.
 9. Describe the diagnosis and treatment of allergies.
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Methods of Evaluation:

1. Tests
2. Quizzes
3. Written assignments
4. Midterm and Final examination

Course Content Outline:

1. Ophthalmology and otology
 - a. Anatomic structures of the eyes and ears
 - b. Conditions that lead to hearing losses
 - c. Patient assessments
 - d. Ear Lavage
2. Gastroenterology
 - a. Primary functions of the digestive system
 - b. Telephone screenings
 - c. Classifying disorders of the liver and gallbladder

3. Male Reproduction
 - a. Organs of the male reproductive system and their functions
 - b. Infections and inflammations of the male reproductive system
 - c. Diseases and disorders of the male reproductive system
 - d. Sexually transmitted illness (STI"s)
4. Obstetrics and Gynecology
 - a. Major organs of the female reproductive system
 - b. Contraceptive methods
 - c. Infections including Sexually Transmitted Infections (STI"s)
 - d. Complications of pregnancy
5. Orthopedics
 - a. Principal structures of the musculoskeletal system
 - b. Common types of fractures
 - c. Common diagnostic procedures
 - d. Injections
6. Neurology and Mental Health
 - a. Anatomy and physiology of the nervous systems
 - b. Central and peripheral nervous system
 - c. Cerebral vascular accident (CVA)/transient ischemic attack(TIA)
 - d. Maslow"s Hierarchy of Life
7. Pediatrics
 - a. Childhood growth patterns
 - b. Development theories
 - c. Diseases and disorders
 - d. Immunizations
 - e. Safety guidelines
8. Pulmonary
 - a. Organs of the respiratory system and their functions
 - b. Infections and inflammations
 - c. Cancers associated with respiratory system
9. Geriatrics
 - a. Analyze the impact of a growing aging population
 - b. Changes in the aging body
 - c. Screening tools for dementia, depression, and malnutrition
10. Pharmacology
 - a. Classifications of medication as it relates to indication of use, desired effects, side effects, adverse reactions
 - b. Distinguish between multiple body systems medication and specify body system medications
 - c. Describe how different medication forms are absorbed into the body.
 - d. Distinguish between local and systemic effects
 - e. Most common ambulatory medications
 - f. Specify legal responsibilities and scope of practice for Medical Assistant

Resources

Tamparo and Lewis. *Diseases of the Human Body*. 5th. F.A.Davis, 2011.

Kinn, Mary E. and Mary Ann Woods. *The Medical Assistant: Administrative and Clinical*. 11. Pittsburgh: W. B. Saunders Publishing, 2011.

Lindh, Wilburta Q., and Marilyn S. Pooler. *Delmar's Comprehensive Medical Assisting*. Albany, NY: Delmar Publishing, 2007.

Kronenberger, Durham, Woodson. *Comprehensive Medical Assisting*. 3rd. Lippincott Williams Wilkins, 2008.

Lindh, Pooler, Tamparo, Dahl. *Comprehensive Medical Assisting*. 4. Delmar, 2010.

Instructional Services

OAN Number:

CTAN Approved: Career Technical Assurance Guide CTMAT010 (1 of 2 courses, both must be taken)

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