MA 164 Course Outline as of Fall 2019

CATALOG INFORMATION

Dept and Nbr: MA 164 Title: CLINICAL LAB THEORIES Full Title: Theories of the Clinical Laboratory Last Reviewed: 1/27/2020

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.00	Lab Scheduled	0	8	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	2.00		Contact Total	35.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 105.00

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:

Introduction to the clinical laboratory. Urinalysis, hematology, blood chemistry, serology testing, and normal ranges are studied. Students will learn about low complexity tests and how general microscopic slide testing is performed.

Prerequisites/Corequisites:

Course Completion of MA 163, MA 163L, MA 165, MA 169; AND Concurrent Enrollment in MA 167, MA 174, MA 176

Recommended Preparation:

Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates

Limits on Enrollment:

Schedule of Classes Information:

Description: Introduction to the clinical laboratory. Urinalysis, hematology, blood chemistry, serology testing, and normal ranges are studied. Students will learn about low complexity tests and how general microscopic slide testing is performed. (Grade Only) Prerequisites/Corequisites: Course Completion of MA 163, MA 163L, MA 165, MA 169; AND Concurrent Enrollment in MA 167, MA 174, MA 176

Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates Limits on Enrollment: Transfer Credit: Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree: CSU GE:	Area Transfer Area	Effective: Effective:	Inactive: Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer	: Effective:	Inactive:	
UC Transfer:	Effective:	Inactive:	

CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

- 1. Analyze laboratory techniques and data that medical assistants encounter in the outpatient setting.
- 2. Discuss and analyze basic medical office tests.

Objectives:

Students will be able to:

- 1. Demonstrate understanding of laboratory testing.
- 2. Identify a variety of laboratory tests utilized in the outpatient setting.
- 3. Identify guidelines applicable to medical assisting students using Clinical Laboratory Improvement Amendments (CLIA) criteria.
- 4. Read and interpret a computerized laboratory request/report.
- 5. Instruct a patient in the preparation necessary for specific laboratory tests.
- 6. List the Occupational Safety and Health Administration (OSHA) blood borne pathogen standards for biologic specimen collection.
- 7. Describe the proper handling and transportation of laboratory specimens per agency.
- 8. Define patient education for the signs, symptoms, and transmission of infectious diseases.
- 9. Perform rudimentary urinalysis.
- 10. Identify the normal ranges for common laboratory tests.
- 11. Recognize and report abnormal laboratory findings to appropriate medical staff.

Topics and Scope:

- I. Introduction to the Clinical Laboratory and Outpatient Specimen Collection and Low Complexity Testing in Medical Assisting
 - A. The clinical lab documentation

- 1. purpose
- 2. lab request form
- 3. using lab directories
- 4. relationship (of agency lab) to the medical office
- 5. CLIA criteria
- 6. testing categories
- B. Quality control and safety methods specimens
 - 1. collecting
 - 2. handling
 - 3. transport
 - 4. preparing slides for provider review
- C. Outpatient tests: types
 - 1. urinalysis
 - 2. microbiologic
 - 3. Papanicolaou (PAP)
- D. OSHA regulations
- II. Structure, Function and Terms Related to Urine Composition and Analysis Under Microscopic View
 - A. Identifying sediment
 - B. Effects of pregnancy
 - C. Normal ranges

III. Indications for Hematology, Blood Chemistry and Serology Tests

- A. Process of obtaining a specimen
- B. Normal ranges
- C. Abnormal values' reporting
- D. Transport
- IV. Educating Patients: Guidelines for Specimen Collection

Assignment:

- 1. Complete 15-20 pages of reading assignments, per week
- 2. Homework problems:
 - a. Critical thinking skills, 5-10 applications per week
 - b. Vocabulary assessment, 10-20 words per week
- 3. Review 10-15 lab reports/data interpretation
- 4. Completion of 5-7 unit exams and 1 final exam

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, critical thinking skills; vocabulary assessment

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Lab reports, data interpretation

Writing 20 - 40%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

 None
 Skill Demonstrations
0 - 0%

 Exams: All forms of formal testing, other than skill
performance exams.
 Exams
20 - 40%

 Completion of unit exams and one final exam
 20 - 40%

 Other: Includes any assessment tools that do not logically
fit into the above categories.
 Other Category
0 - 0%

Representative Textbooks and Materials:

Clinical Procedures for Medical Assistants. 10th ed. Bonewit-West, Kathy. Elsevier. 2017 Instructor prepared materials