

El Paso Community College
Syllabus
Part II
Official Course Description

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| SUBJECT AREA | <u>Medical Laboratory Technology</u> |
| COURSE RUBRIC AND NUMBER | <u>MLAB 1261</u> |
| COURSE TITLE | <u>Clinical – Clinical/Medical Laboratory Technician II</u> |
| COURSE CREDIT HOURS | <u>2 0 : 8</u> Credits Lec Lab |

I. Catalog Description

Provides a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Includes clinical practice in the areas of Urinalysis and Body Fluids, Immunohematology, and Coagulation. A grade of "C" or better is required in this course to take the next course. **Prerequisites: MLAB 1101 and MLAB 1127 and MLAB 1260 and MLAB 1315. Corequisites: MLAB 1211 and MLAB 1235 and MLAB 2331. (0:8). Professional Practice Insurance required.**

II. Course Objectives

Upon satisfactory completion of this course, the student shall be able to:

- A. Describe the type of tests performed in the Coagulation, Urinalysis, and Immunohematology departments of a clinical laboratory.
- B. Perform within established competency limits routine phlebotomy, clerical and technical procedures in the areas of Coagulation, Urinalysis, and Immunohematology.
- C. Employ basic laboratory skills.
 1. Interpret and apply manufacturer's instructions/specifications as they relate to reagents, MSDS sheets, testing kits, and equipment, to include lab refrigerators, freezers, incubators, etc.
 2. Prepare dilutions and titers
 3. Perform and interpret staining procedures and the methodologies involved when using Wright stain, Brilliant Cresyl Blue, New Methylene Blue, and other Supravital Stains.
 4. Perform routine testing in the immunohematology department such as ABO and Rh typing, Antibody Screen and Antibody Identification, and Compatibility testing, etc.
- D. Perform laboratory calculations.
- E. Evaluate, report, and document notification of test results in the above mentioned laboratory areas, including critical values to the appropriate health care providers following HIPAA protocols for using the facsimile, E-mail, or phone communications.
- F. Participate in Quality Assurance and Quality Control programs.
- G. Discuss professionalism and ethics and how it relates to the performance as a Medical Laboratory Technician.
- H. Demonstrate computer literacy
 1. Demonstrate basic operation of analyzers
 2. Troubleshoot instrument problems including the PC and peripherals.
 3. Maintain HIPAA protocols
- I. Discuss problem-solving techniques
 1. Recognize erroneous results

2. Repeat and verify critical or abnormal values
 3. Verify specimen integrity and troubleshoot specimen discrepancies.
- J. Discuss laboratory safety and universal precautions.
1. Demonstrate adherence to Standard Precautions and the organizations' SOP (Standard Operating Procedures) at all times.
 2. Demonstrate compliance with government, state, and organizational safety regulations involving Biological, Chemical, Radioactive, Fire, Physical, and Electrical hazards.
 3. Explain the proper techniques for hand washing, gowning, gloving, and masking and the disposal of this type of Personal Protective equipment
 4. Identify and respond to Hospital Emergency codes.
 5. Recognize hazards such as noise monitoring, and report safety violations and or possible hazards.

III. THECB Learning Outcomes (WECM)

As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

IV. Evaluation

A. Preassessment

Official MLT challenge exams have as of yet not been structured. Students wishing to challenge a certain course will be administered written examinations to assess comprehension of didactic material and lab practical exams to assess the clinical laboratory skills demonstrating accuracy and precision. The student must score 80% or higher to successfully complete each examination and meet the minimum competency limits set for individual laboratory skills and abilities.

B. Postassessment

1. Quizzes, lecture exams, and a final comprehensive written examination will be used to assess student' competency in didactic objectives.
2. Lab competency exams and lab practical exams are used to assess students' achievement of psychomotor objectives.
3. Lab practical exams and the identification of unknown specimens will require students to demonstrate a particular skill learned in the clinical lab component of the class.
4. Written unit exams will consist of the following question types: multiple-choice, completion, essay, matching, spelling, analysis, and definition or any combination of these.

C. Final Examination

A comprehensive final exam will be administered at the end of the clinical lab departmental rotation.

D. Evaluation

To evaluate students' achievement of course objectives, student grades are tabulated using a final grade break down sheet. To successfully complete MLAB1261 Clinical-Clinical/Medical Laboratory Technician II, the student must achieve no less than 80% in the clinical components. The students overall grade must be no less than a "C," to be allowed to progress to the next program level.

E. Remediation

If a student scores less than 80% on any clinical quiz, report form, or exam, the instructor will conference with student to discuss different learning, retaining, and studying methodologies. The instructor will discuss possible weakness and/or problem sources, and will help guide student to take remedial steps toward initiating corrective measures.

F. Grading

Grading will follow current El Paso Community College Catalog standards. Grades will be calculated to the nearest tenth, and those at .5 or more will round up to the next whole number. Those below .5 will round down to the next whole number. The assignments of letter grades to percentage scores and final grade determinations will be as follows:

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| Practicum Report Forms | = 30% |
| Final Exam | = 20% |
| Quizzes | = 20% |
| Clinical Evaluations | = 5% |
| Practical Exams | = <u>25%</u> |
| | 100% |

Each section (Urinalysis, Coagulation, and Immunohematology) must be passed with an 80% or better to satisfactorily pass the course.

No retake exam will be offered for quizzes and final exam. The lowest quiz grade will be dropped. Students will receive a grade of zero on quizzes missed. Make-up exam may be given for excused absence on the final exam only at the discretion of the instructor.

Grade Scale:

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| A | = 94 - 100 |
| B | = 87 - 93 |
| C | = 80 - 86 |
| D | = 73 - 79 |
| F | = 72 and below |

G. Academic Dishonesty

Students found cheating on MLT work will be given a zero on the first incident. The student will be dropped from the course and the program if there is a second incident.

V. Disability Statement (American with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.