

El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	Medical Laboratory Technology
COURSE RUBRIC AND NUMBER	MLAB 1262
COURSE TITLE	Clinical – Clinical/Medical Laboratory Technician III
COURSE CREDIT HOURS	2 0 : 12 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 Hematology, Immunology, Serology, Immunohematology, Urinalysis, Coagulation and Phlebotomy. A grade of "C" or better is required in this course to take the next course. **Prerequisites: MLAB 1101 and MLAB 1127 and MLAB 1235 and MLAB 1261 and MLAB 1315 and MLAB 2331. (0:12). Professional Practice Insurance required.**

II. Course Objectives

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

- A. Perform venipuncture and/or dermal puncture phlebotomy procedures on infants, children, adolescents, adults, and geriatric patients.
- B. Perform hematology automatic and/or manual erythrocyte counts, leukocyte counts, platelet counts, reticulocyte counts, hematocrit, hemoglobin, platelet estimates, ESR's, Sickle Cell preps, and other body fluid analysis.
- C. Operate, perform maintenance, troubleshoot, and run quality controls on automated hematology analyzers, microhematocrit centrifuges, automated slide stainer, and other instruments used in the Hematology Coagulation, and Urinalysis clinical laboratory departments.
- D. Make blood smears, and make use of the necessary staining procedures to perform Differentials on normal and abnormal blood samples to include bone marrow slides.
- E. Perform visual, chemical, and microscopic procedures on urine, seminal fluid, CSF fluid, synovial fluid, amniotic fluid and other body fluid analysis to include the use of Confirmatory tests when appropriate.
- F. Perform serological testing to include RPR, RA/RF, ANA, ASO, Mononucleosis, Cold Agglutinins, Group A Strep, and any other serological testing performed in the Immunology/Serology department.
- G. Demonstrate standard Blood Bank Procedures to include AABB standards, Donor Phlebotomy, Processing, Testing of units and Recipient blood collection procedures, blood typing, compatibility testing, antibody screening, documentation, releasing of blood components, blood component/unit inventory, cord blood studies, and RhoGAM studies.

- H. Participate in Quality Assurance, Quality Control and Proficiency Testing protocols incorporating precision, accuracy, Levey Jennings Charts and Westgard Rules as required in each clinical laboratory department.
- I. Perform basic Coagulation studies to include the performance of Bleeding Times, APTT, PT, PT-INR, Mixing Studies, Platelet Aggregation Studies, Low molecular Weight Heparin studies, D-Dimer, Coagulation Factor studies, and the evaluation of DIC results.

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 MLAB1361 Clinical-Clinical/Medical Laboratory Technician III, the student must achieve no less than 80% in clinical components. The students overall grade must be no less than "C". (Note: All health programs require a grade of no less than "C," therefore no "D's" will be awarded for this course)

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 EPCC Catalog standards. The assignments of letter grades to percentage scores and final grade determination will be as follows:

70% Practicum Report Forms
25% Hourly Exam
<u>5% Evaluation</u>
100%

Each section must be passed with 80% or better in order to satisfactorily pass the course.

Grade Scale

A= 94 – 100

B= 87 – 93

C= 80 – 86

D= 73 – 79

F = 72 and below

G. Academic Dishonesty

Failure of the student to follow the above guidelines will indicate that the student is no longer pursuing the objectives of the course and will result in faculty initiated withdrawal.

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 (Americans 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.