

# MEDT Medical Tech

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## **MEDT 2000 Directed Study**

**1-3 Credit Hours. 0-18 Lecture Hours. 0-18 Lab Hours.**

Selected medical technology topics. Credit varies by topic and workload. Offered on demand.

## **MEDT 3001L Intor to Medical Lab Meth Lab**

**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.**

## **MEDT 3100 Urinalysis and Body Fluids**

**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Open only to medical technology majors. Qualitative and quantitative study of the physical and microscopic constituents of urine and other body fluids. Includes practice of manual and automated procedures and their relationship to diagnosing disease.

**Corequisite(s):** MEDT 3100L.

## **MEDT 3100L Urinalysis/Body Fluids Lab**

**0 Credit Hours. 0 Lecture Hours. 2 Lab Hours.**

**Corequisite(s):** MEDT 3100.

## **MEDT 3110 Urinalysis and Body Fluids**

**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Qualitative and quantitative study of the physical and microscopic constituents of urine and other body fluids.

## **MEDT 3200 Clinical Bacteriology**

**5 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

The relationship of bacteria, mycobacteria, spirochaetes, and mycoplasmas to human disease with an emphasis on the isolation and identification of pathogenic bacteria. Open only to medical technology majors.

**Corequisite(s):** MEDT 3200L.

## **MEDT 3200L Clinical Bacteriology Lab**

**0 Credit Hours. 0 Lecture Hours. 4 Lab Hours.**

**Corequisite(s):** MEDT 3200.

## **MEDT 3210 Clinical Bacteriology**

**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

The relationship of bacteria, mycobacteria, spirochaetales, and mycoplasmas to human disease. Emphasis on the isolation and identification of bacteria responsible for human disease.

## **MEDT 3300 Clin Hematology & Hemostasis**

**5 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Study of pathology and physiology of the formed elements of blood with an emphasis on clinical correlation. Study of the principles of hemostasis and blood coagulation including interpretation of results. Manual and automated laboratory procedures are performed based on principles of hematology and hemostasis.

**Corequisite(s):** MEDT 3300L.

## **MEDT 3300L Clin Hematology Lab**

**0 Credit Hours. 0 Lecture Hours. 4 Lab Hours.**

**Corequisite(s):** MEDT 3300.

## **MEDT 3310 Clin. Hematology & Hemostasis**

**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Study of pathology and physiology of the of the formed elements of blood with an emphasis on clinical correlation. Study of the principles of hemostasis and blood coagulation including interpretation of results.

## **MEDT 3400 Clinical Immunohematology**

**5 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components including the selection and processing of donors, cross matching procedures, and antibody identification. Open only to medical technology majors.

**Corequisite(s):** MEDT 3400L.

## **MEDT 3400L Clinical Immunohematology Lab**

**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.**

**Corequisite(s):** MEDT 3400.

## **MEDT 3410 Clinical Immunohematology**

**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components. Includes the selection and processing of donors, cross matching procedures, and antibody identification.

## **MEDT 3500 Clinical Chemistry**

**5 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Open only to medical technology majors. Focus on physiological principles and concepts, methodologies and clinical significance of biochemicals and elements found in the blood and other body fluids. Manual and automated laboratory procedures are performed with an emphasis on quality control and quality assurance. Clinical chemistry case studies are presented to aid in clinical correlation and problem solving.

**Corequisite(s):** MEDT 3500L.

## **MEDT 3500L Clinical Chemistry Lab**

**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.**

## **MEDT 3510 Clinical Chemistry**

**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Focus on physiological principles and concepts, methodologies and clinical significance of biochemical and elements found in body fluids and other body fluids. Clinical chemistry case studies are presented to aid in clinical correlation and problem solving.

## **MEDT 3600 Clinical Lab Meth & Molec Dgn**

**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A basic introduction to the clinical laboratory focusing on topics in laboratory safety, microscopy, phlebotomy, general laboratory equipment, quality assurance, laboratory mathematics, and principles and methodologies of clinical laboratory instrumentation. This course will also familiarize students with the basics of molecular diagnostic technology and the types of test available.

**Corequisite(s):** MEDT 3600L.

## **MEDT 3600L Clinical Lab Methodologies Lab**

**0 Credit Hours. 0 Lecture Hours. 2 Lab Hours.**

**Corequisite(s):** MEDT 3600.

## **MEDT 3610 Clinical Lab Meth & Molec Dng**

**2 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Principles and operation of clinical laboratory instrumentation. This course will also familiarize students with the basics of molecular diagnostics technology and the types of test available.

## **MEDT 3700 Clinical Immunology**

**3 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies. Includes laboratory component.

**Corequisite(s):** MEDT 3700L.

## **MEDT 3700L Clinical Immunoserology Lab**

**0 Credit Hours. 0 Lecture Hours. 2 Lab Hours.**

**Corequisite(s):** MEDT 3700.

## **MEDT 3710 Clinical Immunology**

**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Principles and procedures used in the isolation, identification and quantitation of diagnostically significant antigens and antibodies.

## **MEDT 3800 Clinical Microbiology**

**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Pathogenesis, life cycles, and laboratory identification of human parasites. Open only to medical technology majors.

**Corequisite(s):** MEDT 3800L.

**MEDT 3800L Clinical Microbiology Lab**  
**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.**  
**Corequisite(s):** MEDT 3800.

**MEDT 3810 Clinical Microbiology**  
**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**  
Only open to medical technology majors. Pathogenesis and laboratory identification of human parasites and clinically significant fungi and viruses.

**MEDT 3810L Clinical Microbiology Lab**  
**0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

**MEDT 4115 Clinical Practicum**  
**1-9 Credit Hours. 0 Lecture Hours. 0-18 Lab Hours.**  
Structured clinical laboratory experiences. Rotations will include clinical microbiology, clinical chemistry, immunohematology, hematology, coagulation, immunology/ serology, urinalysis, phlebotomy, and molecular diagnostic testing.

**Prerequisite(s):** A minimum grade of "C" in MEDT 3100 and MEDT 3200 and MEDT 3300 and MEDT 3400 and MEDT 3500 and MEDT 3600 and MEDT 3700 and MEDT 3800.

**MEDT 4600 Clinical Path and Crit Dec Mak**  
**5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**  
Advanced level topics in clinical laboratory science, emphasizing analysis and presentation of multi-disciplinary case studies.  
**Prerequisite(s):** A minimum grade of "C" in MEDT 4115.

**MEDT 4810 Special Topics Practicum**  
**1 Credit Hour. 0 Lecture Hours. 1 Lab Hour.**  
Structured experiences in alternate clinical sites. Settings may include doctors, reference, and clinic laboratories.  
**Prerequisite(s):** A minimum grade of "C" and prior or concurrent enrollment in all of the following: MEDT 3100 and MEDT 3200 and MEDT 3300 and MEDT 3400 and MEDT 3600 and MEDT 3700 and MEDT 3800.

**MEDT 4900 Laboratory Mgmt and Education**  
**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**  
Fundamental concepts of laboratory management, operation, finance, managerial leadership, personnel administration, and educational principles for laboratory scientists.  
**Prerequisite(s):** A minimum grade of "C" in MEDT 4115.