

ECU COURSE CATALOG

2025-2026 MEDICAL TECH. COURSES

MEDTE-1611 Orientation to Medical Techniques 1 Credit

AN INTRODUCTION TO THE SKILLS AND TECHNIQUES ESSENTIAL FOR THE PROFESSIONAL MEDICAL TECHNOLOGIST.

MEDTE-4117 Clinical Microbiology 7 Credits

LECTURE AND SUPERVISED LABORATORY INSTRUCTION IN PATHOGENIC BACTERIA, FUNGI, PARASITES, VIRUSES, AND ANTIMICROBIAL SUSCEPTIBILITY TESTING WITH EMPHASIS ON CLINICAL DECISIONS AND MEDICAL SIGNIFICANCE. INCLUDES QUALITY CONTROL, COMPUTER APPLICATIONS, INSTRUMENTATION, QUALITY ASSURANCE/IMPROVEMENT, SAFETY AND GOVERNMENTAL REGULATIONS.

MEDTE-4125 Clinical Chemistry I 5 Credits

LECTURE AND SUPERVISED LABORATORY INSTRUCTION IN BIOCHEMISTRY METHODOLOGY AND CLINICAL MICROSCOPY WITH EMPHASIS ON CLINICAL DECISIONS AND MEDICAL SIGNIFICANCE. INCLUDES QUALITY CONTROL, COMPUTER APPLICATIONS, INSTRUMENTATION, QUALITY ASSURANCE/IMPROVEMENT, SAFETY AND GOVERNMENTAL REGULATIONS.

MEDTE-4236 Clinical Hematology 6 Credits

LECTURE AND SUPERVISED LABORATORY INSTRUCTION IN ROUTINE AND SPECIAL HEMATOLOGY STUDIES CORRELATING HEMATOLOGICAL FINDINGS WITH MEDICAL SIGNIFICANCE. INCLUDES QUALITY CONTROL, COMPUTER APPLICATIONS, INSTRUMENTATION, QUALITY ASSURANCE/IMPROVEMENT, SAFETY AND GOVERNMENTAL REGULATIONS.

MEDTE-4246 Clinical Immunology/Immunohematology 6 Credits

LECTURES ON IMMUNOLOGIC (ANTIGEN-ANTIBODY) RESPONSES, SEROLOGICAL METHODOLOGY AND THEORY OF IMMUNOHEMATOLOGY AS APPLIED TO BLOOD GROUPS, TYPES, COMPATIBILITY TESTING, AND BLOOD COMPONENTS. SUPERVISED LABORATORY INSTRUCTION IN IMMUNOLOGY AND IMMUNOHEMATOLOGY METHODOLOGY WITH EMPHASIS ON CLINICAL DECISIONS AND MEDICAL SIGNIFICANCE. INCLUDES QUALITY CONTROL, COMPUTER APPLICATIONS, INSTRUMENTATION, QUALITY ASSURANCE/IMPROVEMENT, SAFETY AND GOVERNMENTAL REGULATIONS.

MEDTE-4325 Clinical Chemistry II 5 Credits

LECTURE AND SUPERVISED LABORATORY INSTRUCTION IN BIOCHEMISTRY METHODOLOGY AND CLINICAL MICROSCOPY WITH EMPHASIS ON CLINICAL DECISIONS AND MEDICAL SIGNIFICANCE. INCLUDES QUALITY CONTROL, COMPUTER APPLICATIONS, INSTRUMENTATION, LAB MATHEMATICS, QUALITY ASSURANCE/IMPROVEMENT, SAFETY AND GOVERNMENTAL REGULATIONS.

MEDTE-4351 Topics in Medical Technology 1 Credit

LECTURES ON PRINCIPLES AND PRACTICES OF THE MEDICAL LABORATORY INCLUDING MANAGEMENT EDUCATION (HEALTH CARE DELIVERY SYSTEM, ETHICS, PROFESSIONALISM, COMMUNICATION SKILLS, HUMAN RESOURCES AND FINANCIAL MANAGEMENT), REGULATIONS, AND RESEARCH DESIGN/SPECIAL PROJECTS.