

ACADEMIC DIVISION OF SCIENCES AND TECHNOLOGY	
Degree: CERTIFICATE IN MEDICAL TECHNOLOGY Credits: 45	CURRICULUM Since: August 2018

Program: CERTIFICATE IN MEDICAL TECHNOLOGY

Description: The Certificate in Medical Technology is targeted to attract students interested in studying a career that will prepare them to help in the solution of health problems. Physicians base about 70 percent of their diagnosis and treatment decisions on the results of laboratory testing. Graduates from this program will be prepared to work in the clinical laboratories in hospitals and medical centers; pharmaceutical industry in quality control and microbiology labs, research and biotechnology; government crime labs, accreditation offices, environmental technology and lab information systems; humanitarian work in the Peace Corps, Project Hope and medical missionary workers. Many medical technology degree graduates assume positions as laboratory directors and healthcare supervisors.

Course Code	Course Title	Credits	Requisites
Academic Session (26 credits)			
MTEC 400	Introduction to Clinical Laboratory Administration and Bioethics	2	
MTEC 401	Clinical Laboratory Instrumentation, Methodologies and Molecular Techniques	2	
MTEC 402	Clinical Parasitology and Clinical Virology	2	
MTEC 404	Clinical Mycology	1	
MTEC 406	Clinical Hematology and Hemostasis	4	Co-req MTEC 406L
MTEC 406L	Clinical Hematology and Hemostasis Laboratory	0	Co-req MTEC 406
MTEC 408	Clinical Immunology and Clinical Serology	3	Co-req MTEC 408L
MTEC 408L	Clinical Immunology and Clinical Serology Laboratory	0	Co-req MTEC 408
MTEC 410	Clinical Chemistry	4	
MTEC 412	Study and Analysis of Body Fluids and Urine Analysis	1	
MTEC 414	Clinical Bacteriology	4	Co-req MTEC 414L
MTEC 414L	Clinical Bacteriology Laboratory	0	Co-req MTEC 414
MTEC 417	Immunohematology	3	Co-req MTEC 417L
MTEC 417L	Immunohematology Laboratory	0	Co-req MTEC 417
CLINICAL PRACTICE SESSION (The student must have approved 760 hours) (20 credits)			
MTEC 407	Clinical Laboratory Practice - Hematology	4	MTEC 406, MTEC 406L
MTEC 415	Clinical Laboratory Practice- Blood Bank	3	MTEC 417, MTEC 417L
MTEC 405	Clinical Laboratory Practice- Microbiology	4	MTEC 414, MTEC 414L
MTEC 403	Clinical Laboratory Practice - Parasitology	1	MTEC 402
MTEC 411	Clinical Laboratory Practice- Clinical Chemistry	4	MTEC 410
MTEC 413	Clinical Laboratory Practice- Body Fluids and Urine Analysis	1	MTEC 412
MTEC 409	Clinical Laboratory Practice - Serology	1	MTEC 408, MTEC 408L
MTEC 416	Clinical Laboratory Practice – Case Studies of Clinical Laboratory	1	

1. Student must have earned a baccalaureate degree in Sciences with a grade point average of at least 2.75.
2. Students must have passed with a grade of C the following courses: Biology I and II, Human Biology I and II, Microbiology, Immunology, Cellular Biology or Biochemistry, General Chemistry I and II, Analytical Chemistry, Pre-calculus (minimum 5 credits). Students with less than 5 credits in Pre-Calculus must have a Calculus I course.
3. Physics I and II and Organic Chemistry I y II.
4. Three letters of recommendation from science and/or math professors
5. Oral interview and an essay to be performed during the evaluation process.
6. Students will be admitted to the professional stage if they meet the pre-requirements and subject to the assessment of the Evaluation Committee of the School of Natural Science and Technology.
7. Students should obtain a grade of C or more in core and major courses.

Degree: CERTIFICATE IN MEDICAL TECHNOLOGY		PLAN OF STUDY	
Credits: 46		Since: August 2018	
Program: CERTIFICATE IN MEDICAL TECHNOLOGY			
Course Code	Course Title	Credits	Requisites
FIRST YEAR - FIRST SEMESTER			
MTEC 400	Introduction to Clinical Laboratory Administration and Bioethics	2	
MTEC 401	Clinical Laboratory Instrumentation, Methodologies and Molecular Techniques	2	
MTEC 402	Clinical Parasitology and Clinical Virology	2	
MTEC 406	Clinical Hematology and Hemostasis	4	Co-req MTEC 406L
MTEC 406L	Clinical Hematology and Hemostasis Laboratory	0	Co-req MTEC 406
MTEC 404	Clinical Mycology	1	
MTEC 412	Study and Analysis of Body Fluids and Urine Analysis	1	
MTEC 410	Clinical Chemistry	4	
MTEC 408	Clinical Immunology and Clinical Serology	3	Co-req MTEC 408L
MTEC 408L	Clinical Immunology and Clinical Serology Laboratory	0	Co-req MTEC 408
SECOND SEMESTER 1ST TEM			
MTEC 414	Clinical Bacteriology	4	Co-req MTEC 414L
MTEC 414L	Clinical Bacteriology Laboratory	0	Co-req MTEC 414
MTEC 417	Immunohematology	3	Co-req MTEC 417L
MTEC 417L	Immunohematology Laboratory	0	Co-req MTEC 417
MTEC 407	Clinical Laboratory Practice - Hematology	4	MTEC 406, MTEC 406L
MTEC 405	Clinical Laboratory Practice- Microbiology	4	MTEC 414, MTEC 414L
MTEC 415	Clinical Laboratory Practice- Blood Bank	3	MTEC 417, MTEC 417L
MTEC 403	Clinical Laboratory Practice - Parasitology	1	MTEC 402
MTEC 413	Clinical Laboratory Practice- Body Fluids and Urine Analysis	1	MTEC 412
SUMMER 1ST TERM			
MTEC 411	Clinical Laboratory Practice- Clinical Chemistry	4	MTEC 410
MTEC 409	Clinical Laboratory Practice - Serology	1	MTEC 408, MTEC 408L
MTEC 416	Clinical Laboratory Practice – Case Studies of Clinical Laboratory	1	