



School of Medical Technology

Metro Campus

Bachelor of Science in Medical Technology

Description of the School of Medical Technology

The Medical Technology Program responds to the mission of preparing professionals to fill the needs of present day Puerto Rico.

It aspires to provide an excellent academic education to prepare medical or scientific clinical laboratory technologists with the knowledge, skills, and attitudes necessary in a clinical laboratory science professional beginning in the profession. It also attempts to develop individuals capable of communicating and interacting with patients, their teammates and other health professionals. The application of ethical and moral principles is fomented in the compliance of the laws that govern the laboratory and the Medical Technology profession. Students will become enabled to perform in different scenarios and to practice as enterprising professionals, clinical instructors, consultants, supervisors, administrators, educators, and researchers, among others by means of an innovating curriculum that promotes clinical research.

The National Accrediting Agency of Clinical Laboratory Sciences (NAACLS) accredits this Program, 5600 N River Rd Suite 720 Rosemont, IL 60018; Tel: (773) 714-8880, Fax: (773) 714-8886; www.naacls.org. The Program has an intensive one-year curriculum divided in two terms: academic or theoretical and practical. Two groups of students are admitted annually, one in August and the other in February. Upon completion of the Program, students are eligible to take the professional certification examination offered by the Puerto Rico Board of Examiners for Medical Technologists and the American Society for Clinical Pathologists (ASCP). The Programs have affiliations established with different clinical laboratories where students may complete their clinical practice. These facilities are certified by agencies recognized by NAACLS, such as the Department of Health, the Clinical Laboratory Improvement Amendments (CLIA), and the Joint Commission of Hospital Accreditation (JCHA).

Students are selected at the School in a competitive manner, according to the program's capacity.

Students at the Inter American University

The School offers to complete a Bachelor of Science in Medical Technology (code 165). This option is also for those students who are studying other baccalaureates of the department of natural sciences but are interested in studying Medical Technology. Once all the academic requirements have been met and they meet the minimum average in general and in the science courses: biology, chemistry, mathematics and physics of 2.50, they may apply for admission to the School.

These academic courses required for the baccalaureate in Medical Technology (general, core and elective education) are included in the other baccalaureates of the Department of Natural

Sciences. For this reason, once you have completed the academic requirements and the minimum average, you will be ready to request space through the process of admission to the School. Students are selected at the School in a competitive manner; according to the program's capacity. If you are admitted to the School, you can make a change of major to complete the baccalaureate in Medical Technology.

<i>Academic Requirements of the Bachelor of Science in Medical Technology</i>		
General Education Requirements or their Equivalent		<i>42 credits</i>
Core Requirements *		<i>59 ó 60 credits</i>
Major Requirements		<i>46 credits</i>
Elective Courses		<i>3 credits</i>
Total		<i>150 ó 151 credits</i>
<p>General Education Requirements - 42 credits Forty-two (42) credits are required as explained in the General Education Requirements for Baccalaureates section. Students in this Program will take GEMA 1200 in the Basic Mathematics Skills category. The students of this program are exempted from taking the course of the category Scientific and Technological Context (GEST 2020 or 3030) and the course of the category Health, Physical Education and Recreation (GEHP 3000).</p>		
Core Requirements - 59 or 60 credits		
BIOL 1101	General Biology I*	3
BIOL 1102	General Biology II*	3
BIOL 1103	Biology Skills Laboratory I	1
BIOL 1104	Biology Skills Laboratory II	1
BIOL 2155	Genetics	3
BIOL 3105	General Microbiology*	4
BIOL 3405	Immunology*	3
BIOL 3106	Human Anatomy and Physiology *	4
CHEM 1111	General Chemistry I*	4
CHEM 2212	General Chemistry II*	4
CHEM 2221	Organic Chemistry I*	4
CHEM 2222	Organic Chemistry II*	4
CHEM 3320	Analytical Chemistry *	4
CHEM 4220	Biochemistry *	4
	or	
BIOL 4604	Cellular and Molecular Biology	3
	or	
BMSC 4015	Biochemistry of Human Physiology	3
MATH 1511	Pre-calculus I **	3
MATH 1512	Pre-calculus II	3
PHYS 3001	General Physics I	4
PHYS 3002	General Physics II	4
Major Requirements - 46 credits- request admission at the School of Medical Technology		
MEDT 4501	Laboratory Operation I: Basic Principles, Statistics and Molecular Techniques in the Clinical Laboratory	3
MEDT 4510	Clinical Chemistry, Pathology and Molecular Diagnosis	4
MEDT 4520	Body Fluids	1
MEDT 4531	Clinical Immunology	2
MEDT 4532	Blood Banking	3
MEDT 4540	Hematology and Coagulation and Molecular Diagnosis in Hematopathology	4
MEDT 4560	Mycology and Virology	1
MEDT 4570	Clinical Bacteriology and Molecular Diagnosis in Infectious Diseases	4
MEDT 4585	Clinical Parasitology	2

<i>Academic Requirements of the Bachelor of Science in Medical Technology</i>		
MEDT 4593	Laboratory Operation II: Laboratory Administration, Ethics and Education	2
MEDT 4595	Advanced Seminar and Clinical Research	1
MEDT 4915	Clinical Practice in Blood Banking	3
MEDT 4916	Clinical Practice in Serology, Immunology	2
MEDT 4921	Practice in Clinical Chemistry	4
MEDT 4922	Clinical Practice in Hematology and Coagulation	4
MEDT 4923	Clinical Practice in Microbiology	4
MEDT 4924	Clinical Practice in Urinalysis and Parasitology	2
Elective Courses - 3 credits		
<p><i>* Specific and indispensable requirements to take the concentration courses. Without the specific requirements you cannot take concentration courses.</i></p> <p><i>** The MATH 1500 Pre-calculation (5 credits) can be accepted as long as the student has a minimum of 6 credits in additional mathematics to the GEMA 1200.</i></p>		

Requirements to apply for admission to complete the Bachelor of Medical Technology

1. At the time of Admission, have approved the following courses:
 - General Education Requirements or their Equivalent42 credits
 - Core Requirements * 59 ó 60 credits
 - Elective Courses3 credits
2. Completion of an application form and submission of an official academic transcript from all universities attended.
3. Three (3) letters of recommendation from faculty members. The scores obtained will be considered in the admission formula for the selection of the candidate.
4. A minimum general academic grade point index of 2.5 and in biology, chemistry, mathematics and physics courses. The grade point index obtained will be considered in the admission formula for candidate selection.
5. The ability to achieve essential non-academic requirements related to the demands of the profession as published in the information brochure of the Medical Technology Program. Students should have these requirements to be able to complete the Program satisfactorily and to work in the functions of the Medical Technology profession.
6. Take an academic test offered by the school, for the purpose of checking the knowledge and skills related to the academic requirements in part number 1 of the admission requirements. The scores obtained will be considered in the admission formula for the selection of the candidate.
7. After being admitted to the Program, deliver the following documents:
 - a. Certificate of Health
 - b. Evidence of vaccination or immunization against Hepatitis B and varicella.
 - c. Evidence of a current medical plan
 - d. Negative Certification of Criminal Background validated
 - e. For the clinical practice the doping test is required.
 - f. Student Card
 - g. Other documents requested by some practice centers

Transfers from Other Universities (External)

Direct transfers are not allowed to the courses of the major in Medical Technology (MEDT), for these it must mediate through the School a process of request of space to admission.

Students with less than three years of university studies who come from other accredited universities or who have not completed the requirements to be a candidate for admission to the School and wish to transfer to the Interamerican University of Puerto Rico, it is recommended to transfer to the Baccalaureate of Natural Sciences and follow the instructions offered on this page under "Students at the Interamerican University".

Students with 3 years or more of studies at other universities

Students with 3 years or more of university studies who come from other accredited universities and who apply for admission to the School to finish the bachelor's degree in Medical Technology at this University may submit the following approved courses, approved with a minimum of C, to the admissions committee for consideration to validate the requirements of the General Education Program of the Institution:

	Credits
English	9
Spanish	9
Social Sciences	6
Humanities	6
Religion	3
<u>Mathematics/Computers</u>	<u>9</u>
Total	42

Once all the academic requirements have been met and they meet the minimum average in general and in the science courses: biology, chemistry, mathematics and physics of 2.50, they may apply for admission to the School. Students are selected at the School in a competitive manner; according to the program's capacity. If you are admitted to the School, you can make a transfer to the Inter American University to complete the baccalaureate in Medical Technology. These general education courses in addition to the core requirements and major of the Bachelor of Science in Medical Technology, will be considered for the granting of the baccalaureate degree. Given the structure of the offer of courses we do not accept the courses of the major in Medical Technology from other universities.

Advantages of the Baccalaureate in Medical Technology

1. Avoid having to take courses that are not required for Medical Technology.
2. The financial aid of the student scholarship can be used to complete the baccalaureate in Medical Technology (if you qualify for financial aid).
3. It is one of the few baccalaureates that in approximately 4 years you obtain a profession that is considered one of the most demanded at the moment.
4. With the knowledge and skills acquired in Medical Technology, in addition to working in a clinical laboratory, you could seek employment: in the pharmaceutical industry, in research laboratories, in forensic laboratories, science educator, clinical laboratory administrator, laboratory inspector, propagandist of medical products.

Financial Aid (if you qualify)

1. Student Scholarship
2. Student Loan
3. Other grants, subject to their availability.

Cost of tuition for the year in the School

The tuition of the courses for the twelve consecutive months in the School is \$ 8,420. The costs of textbook, medical plan, laboratory coats and general fees of the University are not included in the tuition cost.

Retention Requirements

All students must comply with the satisfactory academic progress standards established in the General Catalog of the Inter-American University. In addition, you must meet the following requirements established by the School and published in the Student Handbook of the Medical Technology Program.

A. Academic Progress

Each course in both the theory and practice curricula should be completed with a minimum average of 75 percent. Students will be kept informed of their academic progress during the courses. If students do not obtain the minimum of 75% in a course, they may be placed on probation. Students that fail in a minimum of six credits will be dismissed from the Program for academic deficiency. Students dismissed for academic deficiency will not be readmitted to the Program.

B. Attendance

Attendance to the lectures, laboratories, and clinical practice is compulsory. Unjustified absences, as established for each course, are sufficient reason for the dismissal of a student.

C. Conduct

Students must comply at all times with the established norms, policies and procedures of the Program, as established in the Student Handbook of the Medical Technology Program. No student dismissed from the Program for violation of the Program norms may be readmitted to this Program.

Graduation Requirements

1. Approve each theory and practice course with a minimum execution criterion of 75%.
2. Minimum overall graduation average of 2.50.

Upon successful completion of the Program, the graduate is eligible to take the Certification Board Exams offered by the Board of Examiners of Medical Technologists of Puerto Rico and the American Society of Clinical Pathologists (ASCP).

After passing the Certification Board Exam, the student is considered a certified Medical Technologist. The granting of the academic degree by the Institution does not depend on the graduate passing the Certification Board Exam.

For more information you can write to: tecnologiamedica@metro.inter.edu or call 787-250-1912 ext. 2401.