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## Medical Laboratory Technician Program

### Course Curriculum

**Semester 01** (Tuition: \$3,010)

Course #	Course Title	Credits
10-513-110	Basic Lab Skills	1
Credits: 1    Lecture Hours: 9    Lab Hours: 18		
This course explores health career options and the fundamental principles and procedures performed in the clinical laboratory. You will utilize medical terminology and basic laboratory equipment. You will follow required safety and infection control procedures and perform simple laboratory tests.		
10-513-111	Phlebotomy	2
Credits: 2    Lecture Hours: 18    Lab Hours: 36		
This course provides opportunities for learners to perform routine venipuncture, routine capillary puncture, and special collection procedures.		
10-513-113	QA Lab Math	1
Credits: 1    Lecture Hours: 18		
This course focuses on performing the mathematical calculations routinely used in laboratory settings. You will explore the concepts of quality control and quality assurance in the laboratory.		
10-513-115	Basic Immunology Concepts	2
Credits: 2    Lecture Hours: 18    Lab Hours: 36		
This course provides an overview of the immune system including laboratory testing methods for diagnosis of immune system disorders, viral and bacterial infections. Corequisites: Basic Lab Skills (10-513-110) Pre/Co-requisites: General Anatomy & Physiology (10-806-177)		
10-801-136	English Composition 1	3
Credits: 3    Lecture Hours: 54		
This course is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research and format documents using standard guidelines. Individuals will develop critical reading skills through analysis of various written documents.		
10-806-177	General Anatomy & Physiology	4
Credits: 4    Lecture Hours: 54    Lab Hours: 36		
Students examine basic concepts of human anatomy and physiology as they relate to health sciences. Students use a body systems approach to analyze the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. They apply basic concepts of whole body anatomy and physiology to make informed decisions as health care professionals and to communicate professionally with colleagues and patients.		



<b>Course #</b>	<b>Course Title</b>	<b>Credits</b>
10-809-172	Introduction to Diversity Studies * <i>OR</i> *	
Credits: 3    Lecture Hours: 54		
Students draw from several disciplines to reaffirm the basic American values of justice and equality by learning a basic vocabulary, a history of immigration and conquest, principles of transcultural communication, legal liability and the value of aesthetic production to increase the probability of respectful encounters among people. In addition to an analysis of majority/minority relations in a multicultural context, the topics of ageism, sexism, gender differences, sexual orientation, the disabled and the American Disability Act (ADA) are explored. Ethnic relations are studied in global and comparative perspectives.		

10-809-196	Introduction to Sociology	3
Credits: 3    Lecture Hours: 54		
Students explore the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.		

10-809-188	Developmental Psychology * <i>OR</i> *	
Credits: 3    Lecture Hours: 54		
Developmental Psychology is the study of human development throughout the lifespan. This course explores developmental theory and research with an emphasis on the interactive nature of the biological, cognitive, and psychosocial changes that affect the individual from conception to death. Application activities and critical thinking skills will enable students to gain an increased knowledge and understanding of themselves and others.		

10-809-198	Introduction to Psychology	3
Credits: 3    Lecture Hours: 54		
Students survey the multiple aspects of human behavior. This involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. The student forms an insightful understanding of the complexities of human relationships in personal, social, and vocational settings		

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**Semester 04** (Tuition: \$2,270)

<b>Course #</b>	<b>Course Title</b>	<b>Credits</b>
10-513-116	Clinical Chemistry	4
Credits: 4    Lecture Hours: 36    Lab Hours: 72		
Introduces clinical chemistry techniques and procedures for routine analysis using photometric, potentiometric and separation techniques. Topics in this course include pathophysiology and methodologies for carbohydrates, lipids, proteins, renal function and blood gas analysis. Additional topics include hepatic, cardiac markers, tumor markers, endocrine function, miscellaneous body fluids, toxicology, enzymes and electrolytes. Prerequisites: Intro to Biochemistry (10-806-186)		

10-513-130	Advanced Hematology	2
Credits: 2    Lecture Hours: 18    Lab Hours: 36		
This course explores mechanisms involved in the development of hematological disorders. Emphasis is placed upon laboratory techniques used to diagnose disorders and monitor treatment. Prerequisites: Basic Hematology (10-513-120)		

10-513-133	Clinical Microbiology	4
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**Estimated Total Tuition\*: \$11,660**

*Additional costs for physical, uniforms, and travel. For detailed costs, contact [Health Programs Support](#).*