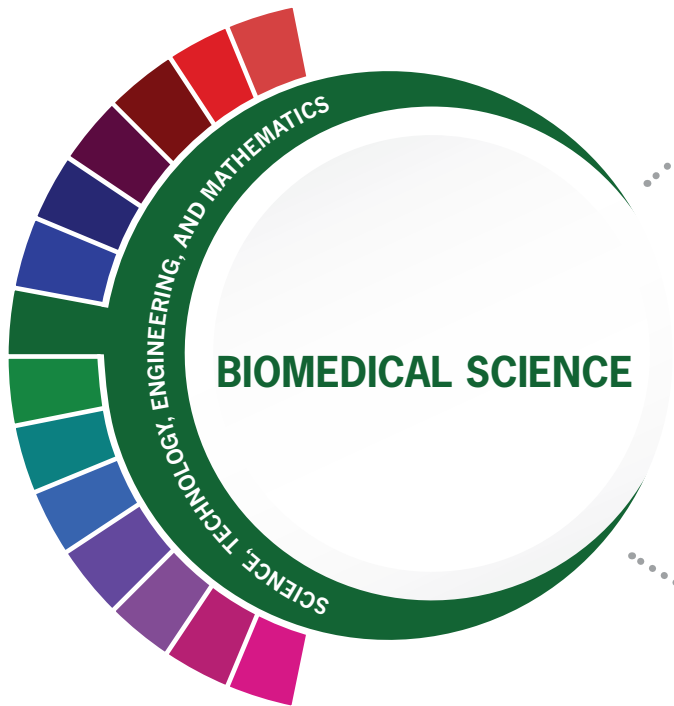


COURSES



NONE
Level 1



Biotechnology I
Level 2



Medical Microbiology
Level 3



Pathophysiology OR
Practicum in Science, Technology, Engineering,
and Mathematics OR
Scientific Research and Design
Level 4

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Medical and Clinical Laboratory Technologists	Histologic Technician	Molecular Biology	Genetic Counseling
			Biomedical Engineers	Medical Scientist
		Clinical Laboratory Science/ Medical Technology/ Technologist	Clinical Laboratory Science/ Medical Technology/ Technologist	Epidemiology

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Medical and Laboratory Technicians	\$37,981	1,159	28%
Biological Technicians	\$42,931	452	17%
Forensic Science Technicians	\$48,152	171	35%
Chemical Technicians	\$49,733	672	10%
Medical and Clinical Laboratory Technologists	\$58,760	1,166	25%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities: Work Based Learning Activities:

Health Occupations Students of America (HOSA) Lab internship or shadow a healthcare or medical professional

The Biomedical Science program of study focuses on the study of biology and medicine in order to introduce students to the knowledge and skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health. Students may also practice patient care and communication. The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and



It is the policy of Weslaco ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

Successful completion of the Biomedical Science program of study will fulfill requirements of the Public Service Endorsement or STEM Endorsement, dependent upon courses chosen. Approved Statewide Program of Study - Sept 2019-Modified by Weslaco ISD CTE



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Biosciences	13036300 (1 credit)	None	9-10
Principles of Biomedical Science (PLTW)	N1302092 (1 credit)	None	11-12
Human Body Systems (PLTW)	N1302093 (1 credit)	None	10-12
Biotechnology I	13036400 (1 credit)	PREQ: Biology	11-12
Biotechnology II	13036450 (1 credit)	PREQ: Biotechnology I and Chemistry and Biology	11-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Medical Interventions (PLTW)	N1302094 (1 credit)	None	10-12
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	11-12
Biomedical Innovation (PLTW)	N1302095 (1 credit)	None	11-12
Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credits) 13037405 (3 credits) 13037410 (2 credits) 13037415 (3 credits)	PREQ: Algebra I and Geometry	12
Scientific Research and Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CAREER CLUSTER, PLEASE CONTACT:

<https://tea.texas.gov/cte>