



ALIGNED TO INDUSTRY

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Physician/Surgeon	\$208,000	752,400 (nationally)	4%
Radiologist	\$198,920	144	4.6%
Pharmacist	\$129,000	353	7.8%
Registered Nurse	\$62,270	5,177	15.8%
Dentist	\$171,840	90	15.1%

APPROVED COURSES

EXPLORATORY

Principles of Biomedical Sciences
Human Body Systems

PREPARATORY

Medical Interventions
Biomedical Innovations Capstone
Certified Medical Assistant (Elective)
Certified Nursing Assistant (Elective)
Athletic Training Therapeutic Services 1 (Elective)
Athletic Training Therapeutic Services 2 (Elective)

WORK-BASED LEARNING AND EXTENDED LEARNING OPPORTUNITIES

Work Experience Opportunities

CTE students in many cases can pursue what is called a "work-based learning" opportunity. The students in the Biomedical Innovations Capstone class complete four job shadow days. Other "work-based learning" experiences offered in this pathway are service learning and structured business/industry field trips. The students in the capstone course apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. Students will design innovative solutions for the health challenges of the 21st century. At Senior Showcase the students present their inventions to school staff members and members of the community.

Career and Technical Student Organization (CTSO)

Career and technical student organizations are much more than clubs. They provide opportunities for hands-on learning, and for applying career, leadership and personal skills in real-world environments. Participants build their skills by developing projects, attending events, and competing regionally and nationally. The student organization for student organization for Law, Public Safety, Corrections and Security is SkillsUSA.

Career Pathways within the **Health Services** cluster include:

- Biotechnology Research and Development* – the study of diseases to discover new treatments or invent medical devices
- Therapeutic Services* – improve the health of patients over time through direct care, treatment, counseling, or health education
- Diagnostics Services* – occupations related to the tests and evaluations that aid in detection, diagnosis and treatment of diseases, injuries or other physical conditions
- Health Informatics* -uses information technology to organize and analyze health records to improve healthcare outcomes
- Support Services* – occupations that interact with patients or the public to provide a therapeutic environment for the delivery of healthcare

PROGRAM PATHWAYS

	Project Lead the Way Biomedical Sciences
Year 1	Principles of Biomedical Sciences
Year 2	Human Body Systems
Year 3	Medical Interventions
Year 4	Biomedical Innovations Capstone

Suggested sequence of courses only, courses can be taken in a different order pending instructor approval.

POSTSECONDARY OPTIONS

CREDENTIALS		HIGHER EDUCATION			
HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL	SCHOOLS WITH THESE PROGRAMS
PTLW EOC CPR Certified Medical Assisting	Medical Assisting	Biology AA	Pre-Medicine	Doctor of Medicine Doctor of Osteopathic Med	Pittsburg State MSU MSSU KCU UCM Truman State Evangel MU School of Med Crowder
PTLW EOC CPR Certified		Physical Therapist Assistant	Athletic Training Exercise Science	Athletic Training	Crowder OTC MSSU CMSU Missouri University UMKC KU
PTLW EOC CPR Certified Medical Assisting CNA	Medical Assisting CNA Licensed Practical Nurse	Licensed Practical Nurse	Bachelor of Nursing	Master of Science in Nursing (MSN)	Crowder, OTC, Cox College of Nursing, MSU, Truman State, UCM, MU, CTC, MSSU, PSU, UMKC
PTLW EOC CPR Certified	Dental Hygiene Dental Assisting	Dental Hygiene Dental Assisting	Pre-Dentistry	Dr. of Dental Med Dr. of Dental Surgery	OTC MSSU Lindenwood Univ. Saint Louis Univ. UMKC