

College Tech Prep Curriculum Pathway (Secondary)



Name of Program: Biomedical Engineering
Name of Secondary School/School District: Canton South High School
Consortium: Stark County
Program Start Date: August, 2008

Pre Tech Prep: 9th and 10th recommended courses

Tech Prep: 11th and 12th Grade Program

9 th Grade	Min	10 th Grade	Min	11 th Grade	Min	12 th Grade	Min
Honors English	138			Foreign Language/Band		Foreign Language/Band	138/138
Honors Science	138	Biology	138	Chemistry	138	Elective	69/138
Global Studies	138	Honors English II	138	Government/Econ	69/69	Honors English IV	138
Foreign Language	138	Foreign Language	138	Honors English III	138	Pre-Calculus/Calculus	138/138
Geometry/Algebra I	138	U.S. History	138	Algebra II/Pre-Calc	138/138	Physics	138
Health/Speech/PE	69/69	Geometry/Algebra II	138	Principles of Biomed Sci	138	Medical Intervention	138
		Health/Speech/PE	69/69	Human Body Systems	138	Science Research	138
Recommended Prerequisites for Grade 11 of College Tech Prep: Honors Biology, Algebra 1, Geometry				<input type="checkbox"/> Recommendations <input type="checkbox"/> Requirements for college portion of Tech Prep:			

Explanation of Junior year Tech Prep Course/Block (by major competency areas/courses):
Principles of the Biomedical Sciences-- human medicine, research processes and an introduction to bio-informatics
Human Body Systems-- basic human physiology, especially in relationship to human health. Students will use a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems.
Medical Intervention-- investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care.
Science Research-- the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers.

College Articulation Elements: articulated credit, transcribed credit, course by-pass and/or other considerations:

See articulation for further explanation