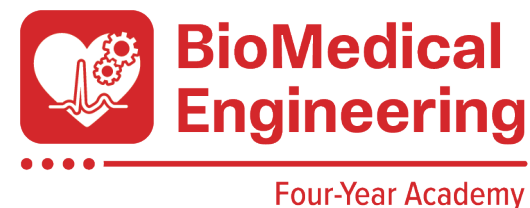




Electronic file located in Xello - "Course Planner"
 Located at Olathe South
 Instagram: @BioMedical Engineering Academy | X: @OlatheBIOeng
 Apply at: olatheschools.org/careerpathways



Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	Y 13	
English (x4 credits)	English 9 OR Honors English 9	1	English 10 OR Honors English 10	1	English 11 OR AP English Language Composition	1	English 12 OR College Prep English OR AP English Literature	1		
Math (x3 credits)	Must take 1 math 9th gr year as recommended by facilitator & math teacher	1	Must take 1 math 10th gr year as recommended by facilitator & math teacher	1	Must take 1 math 11th gr year as recommended by facilitator & math teacher	1	Must take 1 math 12th gr year as recommended by facilitator & math teacher	1		
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Honors Biology	1	Honors Chemistry	1	Students will select 2 of the following courses, ideally one in 11th Grade Year & one in 12th Grade Year Anatomy & Physiology College or AP Biology College or AP Chemistry Physics or AP Physics I AP Environmental Science			2		
Social Studies (x3 credits) (1 World; 1 US; 0.5 Govt; 0.5 elective)	World History OR Honors World History	1	Student Choice	.5	US History OR AP US History	1	US Govt OR AP US Govt	.5		
Communications (0.5 credit)	All Academy Capstone Courses will fulfill the Communications Requirement								Y 14	
Financial Literacy: (0.5 credit)	Financial Literacy									
Fine/Performing Arts (1 credit)	Student choice - any year(s) 1+									
Health: (0.5 credit)	Health Education <i>Optional</i> : Health may be taken online through eAcademy if space is needed in student’s schedule.									
Language Applications: (1.0 credit)	Using the PPG - Identify courses that fulfill this requirement									
Life Studies: (0.5 credit)	BioMedical Engineering Senior Capstone fulfills this requirement									
Physical Education (0.5 credit)	PE Concepts OR Cheer/Dance Team OR Strength & Conditioning	.5	<i>Optional</i> : P.E. Concepts may be taken online through eAcademy if space is needed in student’s schedule. This can be scheduled during the summer - grades 10-12 only. <i>Other online classes are available at eacademy.olatheschools.com</i>							
STEM (1.0 credit)	<i>Students fulfill STEM graduation requirement through Four-Year Academy Courses</i>									
Individual Focus (5.5 credits) Four-Year Academy Coursework	Introduction to BioMedical Engineering	1	BioMedical Engineering I	1	BioMedical Engineering II	1	BioMedical Engineering Senior Capstone	1		
Total Credits: (24 total needed for graduation)	9th grade total:	7	10th grade total:	7	11th grade total:	7	12th grade total:	3+		
NOTE: Credits beyond requirements in any category will fall under individual focus.										
Students may earn an endorsement on their transcript for completing all Academy requirements, including successful completion of coursework, outside-the-classroom learning opportunities, field experiences, and capstone projects. Refer to the Academy’s Endorsement Requirements provided by facilitator or found on the web at olatheschools.org/careerpathways										

Graduating Class of 2028 and Beyond



BioMedical Engineering

Four-Year Academy



Engineering Solutions for Health Care Needs

WHO WE ARE:

At the intersection of the medical and engineering fields, BioMedical Engineering is for students who want to learn how to design and create products to help people across the range of global health challenges. BioMedical Engineers are the people behind nearly every tool and implantable device used in medicine.

- Four years of specialized hands-on courses using the latest technology for entry into a variety of engineering and biomedical-related careers
- Collaborative teams learn in-depth human anatomy as well as engineering-design to take on real life challenges in health care, including global health issues
- Engage across several engineering disciplines with medical interventions and devices

WHAT WE DO:

- Collaborative approach to learning in all BioMedical Engineering courses
- Interact and collaborate with industry professionals who are inventing, developing, researching, and bringing to market a wide range of medical techniques and devices
- Opportunities to visit the latest research facilities and university laboratories
- Opportunities to compete in local, regional, national competitions and design challenges