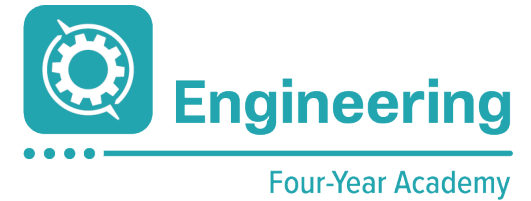




Electronic file located in Xello - "Course Planner"
 Located at Olathe Northwest
 X: @OlatheEngineer
 Apply at: olatheschools.org/careerpathways



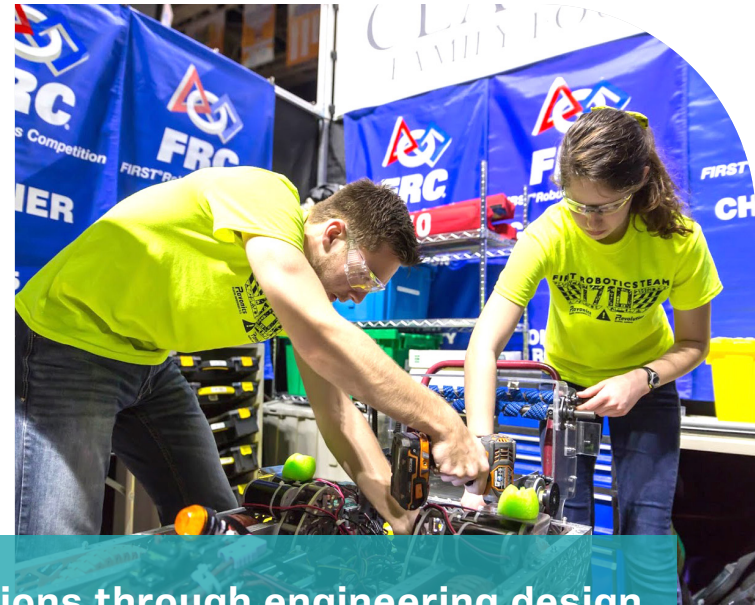
Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	Y 13
English (x4 credits)	English 9 OR Honors English 9	1	English 10 OR Honors English 10	1	English 11 OR AP English Language	1	English 12 OR College Prep English OR AP English Literature	1	
Math (x3 credits)	Algebra I OR Geometry	1	Geometry OR Honors Algebra II	1	Honors Algebra II/Trig OR Pre-Calculus	1	AP Calculus OR Pre-Calculus	1	
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Honors Biology	1	Honors Chemistry	1	Required: AP Physics I Optional: Materials Science & Engineering	1+	Required: Any College or AP level Science Course Optional: Materials Science & Engineering	1+	
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+ Recommended: Drawing I								
Health: (0.5 credit)	Health Education <i>Optional: Health 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>								
Language Applications: (1.0 credit)	Using the PPG - Identify courses that fulfill this requirement								
Life Studies: (0.5 credit)	Using the PPG - Identify courses that fulfill this requirement								
Physical Education (0.5 credit)	PE Concepts OR Cheer/Dance Team OR Strength & Conditioning	.5	<i>Optional: 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. 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> Recommend: CAD III, Materials Science & Engineering								
Individual Focus (5.5 credits) Four-Year Academy Coursework	Introduction to Engineering	1	Engineering Drafting CAD I & II	1	Principles of Applied Engineering	1	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



Engineering

Four-Year Academy



Real world solutions through engineering design

WHO WE ARE:

Empower students to use informed engineering design practices to collaboratively create responsible and innovative solutions to their current and future challenges, both individual and global. Students in this four-year program:

- Engage in socially relevant design challenges that make core engineering concepts accessible from the start while illustrating how engineers solve problems for human benefit.
- Collaborate to complete a series of design challenges that require purposeful application of relevant STEM concepts.
- Utilize the engineering approach to solving problems, regardless of whether they decide to pursue engineering as a career.
- Explore engineering fields and professions such as Mechanical, Electrical, Chemical, Civil, Computer Science, and much more!

WHAT WE DO:

- Explore the breadth of engineering fields and professions so students can decide if engineering is right for them
- Learn authentic engineering practices in a project-based setting
- Work in a deeply collaborative environment
- Discover engineering's potential to impact human lives and the world around us
- Build resilient problem-solving skills and empowerment skills
- Learn to “think like engineers”
- Design, create, and improve solutions to solve existing real-world problems