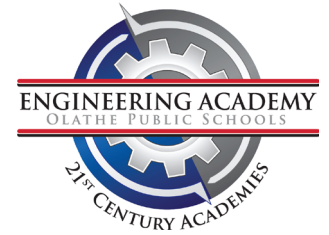




USD #233 Individual Plan of Study
 Electronic file located in Xello - "Course Planner"
 Located at Olathe Northwest
engineering.olatheschools.org
 X: @OlatheEngineer
 Apply at: 21stcentury.olatheschools.com

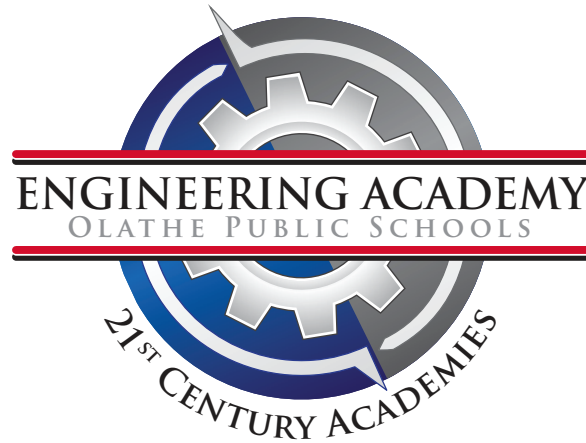
Engineering Academy



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 Recommend: Materials Science & Engineering	1+	Required: Any College or AP level science course	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		
PE/Health (1 credit)	PE Concepts OR Cheer/Drill Team OR Strength & Conditioning AND Health	1	<i>Optional:</i> P.E. Concepts AND/OR Health may be taken online through eAcademy if space is needed in student's schedule. This can be scheduled during the summer or as an 8th hour during the school year - grades 10-12 only. <i>Other online classes are available at eacademy.olatheschools.com</i>							Y 14
Fine Arts (1 credit) (Visual or Performing)	Student Choice Recommend: Drawing I									
World Lang/Appl Comm (1 credit)	Student choice - any year(s) 1+ College-bound students should enroll in 2 years of the same World Language.									
Life Skills: Consumer & Personal Finance (0.5 credit)	May take Consumer & Personal Finance during 10th 11th or 12th grade .5									
Practical & Consumer (1 credit)	Students fulfill Practical & Consumer graduation requirement through 21st Century Academy Courses Recommend: Adv Engineering CAD III AND/OR Computer Programming									
Technology (0.5 credit)	Students fulfill Technology graduation requirement through 21st Century Academy Courses Recommend: Introduction to Computer Coding, CAD III, Materials Science & Engineering									
Individual Focus (6 credits) 21st Century 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 www.21stcentury.olatheschools.com



Olathe Northwest High School

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.

Engineering@olatheschools.org • 913.780.7150 •  @OlatheEngineer

Explore careers in this field with the Occupational Outlook Handbook at <https://www.bls.gov/ooh/>