

Science, Technology, Engineering & Math (STEM)

STEM Endorsement

- **Networking & Cybersecurity**
- **Engineering**
- **Programming & Software Development**
- **Science**
- **Math**

Programs ONLY at the Keller Center for Advanced Learning (KCAL)					
Program	9th Grade	10th Grade	11th Grade	12th Grade	Optional Electives
Networking & Cybersecurity	Principles of Information Technology	Networking	Cybersecurity Capstone AND Digital Forensics	Practicum in IT: Networking & Cybersecurity Practicum in IT: Internships	Computer Maintenance Computer Science 1 Honors
Programming & Software Development	Computer Science 1 Honors	AP Computer Science	Computer Science 2: Python Programming AND/OR Computer Science 3: Video Game Design	Practicum in IT: Video Game Design Practicum in IT: Internships	Computer Maintenance

Programs split between home campus high schools and KCAL

Courses in BLUE are at KCAL; Courses in BLACK are at home campus

Engineering	Introduction to Engineering Design	Engineering Science (PLTW: Principles of Engineering)	<p>CHOOSE 2 or MORE:</p> <p>Aerospace Engineering</p> <p>Digital Electronics Honors</p> <p>Civil Engineering & Architecture</p> <p>Robotics 1</p> <p>SRD: Intro to Unmanned Aerial Vehicles</p>	<p>OPTION 1: Practicum in STEM</p> <p>OPTION 2: Engineering Design & Problem Solving Honors</p> <p>AND 1 or more of the following:</p> <p>Robotics 2</p> <p>Computer Integrated Manufacturing</p> <p>Aerospace Engineering</p> <p>Digital Electronics Honors</p> <p>Civil Engineering & Architecture</p>	Introduction to Welding
--------------------	------------------------------------	--	---	--	-------------------------

Science

Program of Study Course Sequence	9th Grade	10th Grade	11th Grade	12th Grade
Biology*	Biology (1 credit)	Chemistry (1 credit) <i>Prerequisite: 1 Science and Algebra 1</i>	Physics (1 credit) AND Anatomy and Physiology (1 credit) <i>Prerequisite: 2 credits in science</i>	AP Biology (1 credit) <i>Prerequisite: 3 credits in science</i>
Chemistry*	Biology (1 credit)	Chemistry (1 credit)	Physics (1 credit) AND AP Biology (1 credit)	AP Chemistry (1 credit) <i>Prerequisite: 3 credits in science</i>

		<i>Prerequisite: 1 Science and Algebra 1</i>	<i>Prerequisite: 2 credits in science</i>	
Environmental Science*	Biology (1 credit)	Chemistry (1 credit) <i>Prerequisite: 1 Science and Algebra 1</i>	Physics (1 credit) AND Aquatic Science (1 credit) <i>Prerequisite: 2 credits in science</i>	Environmental Systems (1 credit) OR AP Environmental Science (1 credit) <i>Prerequisite: 3 credits in science</i>
Physics*	Biology (1 credit)	Chemistry (1 credit) AND AP Physics I (1 credit) <i>Prerequisite: 1 Science and Algebra 1</i>	AP Physics II (1 credit) <i>Prerequisite: Physics I and Pre-Cal</i>	AP Physics C: Electricity and Magnetism (1 credit) OR AP Physics C: Mechanics (1 credit) <i>Prerequisite: Physics I and Pre-Cal</i>
Space Science*	Biology (1 credit)	Chemistry (1 credit) <i>Prerequisite: 1 Science and Algebra 1</i>	Physics (1 credit) AND Earth Systems Science (1 credit) <i>Prerequisite: 2 credits in science</i>	Astronomy (1 credit) <i>Prerequisite: 3 credits in science</i>

Math

Program of Study Course Sequence	9th Grade	10th Grade	11th Grade	12th Grade
Math*	<u>Required</u> Algebra I, Geometry, and Algebra II		<u>PICK TWO:</u> Precalculus, Statistics, Calculus, Linear Algebra and Multivariable Calculus <i>Choose the appropriate level and check prerequisites.</i>	