

## Proposed ESMS STEM Flowchart

	<i>6<sup>th</sup> Grade</i>	<i>7<sup>th</sup> Grade</i>	<i>Summer</i>	<i>8<sup>th</sup> Grade</i>
<b>Science</b> <i>Engineering Enhancement PLTW</i>	<b>MS Course 1 Earth &amp; Space Science</b>	<b>MS Course 2 Life Sciences</b>  GTT Medical Detectives GTT Green Architecture		<b>MS Course 3 Physical Science</b>  GTT Magic of Electrons GTT Science of Technology
<b>Math</b>	<b>IB Math Year 1 Common Core 6<sup>th</sup></b>	<b>IB Math Year 2 Common Core 7<sup>th</sup></b>		<b>IB Math Year 3 Common Core 8<sup>th</sup></b>
<i>Early Math Summer Acceleration Option</i>	IB Math Year 1 Common Core 6 <sup>th</sup>	IB Math Year 2 Common Core 7 <sup>th</sup>	IB Math Year 3 Common Core 8 <sup>th</sup>	Common Core High School Algebra 1AB
<i>Blocked Zero Period Math Acceleration Option</i>	IB Math Year 1 Common Core 6 <sup>th</sup>	Block 1: Zero Period IB Math Year 2 Common Core 7 <sup>th</sup>		Common Core High School Algebra 1AB  In high school, this student will take: 9 <sup>th</sup> : Geometry 10 <sup>th</sup> : Algebra 2 Honors 11 <sup>th</sup> : Pre-Calculus Honors 12 <sup>th</sup> : AP Calculus or LMU Math 131 Students have multiple opportunities to advance in the math pathway. See the HS flowchart for details.
		Block 2: First Period IB Math Year 3 Common Core 8 <sup>th</sup>		

## Proposed ESHS STEM Flowchart

	<i>9<sup>th</sup> Grade</i>	<i>Summer</i>	<i>10<sup>th</sup> Grade</i>	<i>Summer</i>	<i>11<sup>th</sup> Grade</i>	<i>12<sup>th</sup> Grade</i>
<b>Science</b>	<b>Conceptual Physics/ NGSS Course 1 lab science</b>		<b>Biology/ NGSS Course 2 lab science</b>		<b>Chemistry/ NGSS Course 3 lab science</b>	<b>Anatomy AP Biology* AP Environmental Science* AP Physics 1* <u>AP Chemistry*</u></b>
<i>Science with AP Emphasis</i>	AP Physics 1*		AP Biology*	Chemistry NGSS Course 3 lab science	AP Biology* <u>AP Chemistry*</u>	
<b>Math</b>	<b>Algebra 1AB</b>		<b>Geometry</b>		<b>Algebra 2</b>	<b>Pre-Calculus CP</b>
<i>Math Acceleration Option 1</i>	Algebra 1AB		Geometry Algebra 2 H		Pre-Calculus H	ESHS AP Calculus AB or LMU Math 131
<i>Math Acceleration Option 2</i>	Algebra 1AB	Common Core Geometry	Algebra 2 H	Community College Trigonometry & Pre-Calculus	ESHS AP Calculus AB* or LMU Math 131	LMU Math 132
<i>Engineering Pathway &amp; Programming Enhancement</i>	Introduction to Engineering Design Scratch		Principles of Engineering  RobotC & C/C++		Aerospace Engineering or <i>Digital Electronics</i>  Python	Engineering Design and Development  HTML/CSS & Javascript
<i>Student in Engineering Pathway</i>						AP Computer Science (Java)*
<i>Biomedical Pathway</i>	Principles of Biomed		Human Systems		Medical Interventions	Medical Innovations
<i>Business Pathway</i>			Business Accounting		Principles of Entrepreneurship	AP Statistics* Business Econ