



Kell STEM Academy

Curriculum

Below is the breakdown of the STEM Academy curriculum by grade level

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Science	STEM Biology (F) STEM Chem (Sp)	AP Chemistry	AP Physics I or Hon Physics AND Hon/AP Science Elective	Adv Sci Internship or AP Research
Pathway	Pathway course 1	Pathway course 2	Pathway course 3	Pathway course 4 (optional)
Math <i>*Must complete calculus or AP Stat</i>	Scenario 1 Algebra 1	Geometry	Alg 2 & Pre-calc	AP Calc AB/BC or AP Stat
	Scenario 2 Geometry	Algebra 2	Pre-calc	AP Calc AB/BC or AP Stat
	Scenario 3 Geometry AND Alg 2	Pre-calc	AP Calc AB/BC	GT Calc or AP Stat
	Scenario 4 Geometry	Algebra 2 AND Pre- calc	AP Calc AB/BC	GT Calc or AP Stat
English	H 9 th Lit "Foundations" course (Fall)	World Lit	American Lit OR AP Lang AP Seminar	Senior Lit OR AP Lit
Social Studies	AP Human Geography or Humanities	World History	US History	Gov/Econ
World Language	Language 1 OR 2	Language 2 OR 3	Language 3	
Health/Pers Fit				Health/Pers Fit

Pathways

	PLTW Engineering	PLTW Biomedical Science	Computer Science
Course 1	Found of Engineering &Technology	PLTW Principles of Biomedical Science	Intro to Software Technology
Course 2	Engineering Concepts	PLTW Human Body Systems	AP Computer Science Principles
Course 3	Engineering Applications	PLTW Medical Interventions	AP Computer Science
Course 4	Engineering R&D	PLTW Biomedical Innovation	