

Prerequisite coursework per Texas Essential Knowledge and Skills

Effective 2017-18 School Year

Content Area	Course	Prerequisite Course
English Language Arts	AP English Language and Composition	English II (recommended)
	AP English Literature and Composition	English III (recommended) or AP English Language and Composition (recommended)
	IB Language Studies A1 SL	English II (recommended)
	IB Language Studies A1 HL	IB Language Studies A1 SL (recommended)
Mathematics	Geometry	Algebra I (required)
	Mathematical Models with Applications (MMA)	Algebra I (required)
	Algebra II	Algebra I (required)
	Advanced Quantitative Reasoning (AQR)	Geometry and Algebra II (required)
	Pre-Calculus	Algebra I, Geometry, and Algebra II (required)
	Independent Study in Mathematics	Geometry and Algebra II (required)
	Statistics	Algebra I (required)
	Algebraic Reasoning	Algebra I (required)
	AP Statistics	Algebra II and Geometry (recommended)
	AP Calculus AB	Precalculus (recommended)
	AP Calculus BC	Precalculus (recommended)
	IB Mathematical Studies SL	Algebra II and Geometry (recommended)
	IB Mathematics SL	Algebra II and Geometry (recommended)
	IB Mathematics HL	IB Mathematical Studies SL or IB Mathematics SL
Science	Biology	none
	Integrated Physics and Chemistry	none
	Chemistry	One unit of HS Science and Algebra I (required)
	Physics	Algebra I (suggested)
	Aquatic Science	Biology (required) and Chemistry (suggested)
	Earth and Space	Three units of science, one of which may be taken concurrently, and three units of mathematics, one of which may be taken concurrently (required)
	Environmental Systems	One unit of high school life science and one unit of high school physical science (suggested)
	AP Biology	Biology and Chemistry (recommended)

	IB Biology SL	Two years of high school laboratory science (Recommended)
	IB Biology HL	Two years of high school laboratory science (Recommended)
	AP Chemistry	Chemistry and Algebra II (recommended)
	IB Chemistry SL	Two years of high school laboratory science (Recommended)
	IB Chemistry HL	Two years of high school laboratory science (Recommended)
	AP Physics B	Physics, Algebra I, Algebra II, and Geometry (recommended)
	AP Physics C	Physics, Algebra I, Algebra II, Geometry, and Calculus
	IB Physics SL	Two years of high school laboratory science (Recommended)
	IB Physics HL	Two years of high school laboratory science (recommended)
	AP Environmental Science	Algebra I, two years of high school laboratory science including one year of life science and one year of physical science (recommended)
Fine Arts	Art, Music, Dance, Theater	All Level II and higher Fine Arts courses require successful completion of the previous level
CTE	Advanced Animal Science	Biology and Chemistry or IPC; Algebra I and Geometry (all required). Veterinary Medical Applications (recommended). Recommended for students in Grades 11 and 12
	Advanced Plant and Soil Science	Biology and IPC, Chemistry, or Physics (recommended)
	Forensic Science	Biology and Chemistry (required)
	Mathematical Applications in Agriculture, Food, and Natural Resources	Algebra I (required) Counts as 3 rd Mathematics credit
	Applied Mathematics for Technical Professionals	Algebra I and Geometry (recommended) Counts as 3 rd Mathematics credit
	Anatomy and Physiology	Biology (required)
	Medical Microbiology	Biology and Chemistry (required); One course from Health Science Career Cluster (recommended)
	Pathophysiology	Biology and Chemistry (required); One course from Health Science Career Cluster (recommended)
	Engineering Science	Algebra I and Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics (required) . Geometry (recommended).