

Science, Technology, Engineering & Math Course Sequences and Endorsement Options

Career Cluster	Program of Study (POS)	Year in POS	Course #	Course Name	Advanced CTE Course?	Weighted GPA?	Grade Level(s)	Credit(s)	LOC
CTE OPTION - Science, Technology, Engineering & Math (STEM)	Engineering (upon approval)	1	09877	Introduction to Engineering	No	Yes	9-12	1	HC
		2	TBD	Principles of Engineering	No	Yes	10-12	2	HC
		3	TBD	Project Lead the Way Course 3	Yes	Yes	11-12	1	TBD
		4	TBD	Project Lead the Way Course 4	Yes	Yes	12	1	TBD
		Add'l Sci	09778	Engineering Design & Problem Solving	Yes	No	11-12	1	HC
	Engineering Technology	1	09777	Electronics	No	No	9-12	1	HC
		2	09781	Electronics, Advanced	Yes	No	1-12	2	SCC
		3+Add'l Sci	09778	Engineering Design & Problem Solving	Yes	No	11-12	1	HC
		4	09779	Robotics and Automation	No	No	11-12	1	HC
		Add'l Sci	09778	Engineering Design & Problem Solving	Yes	No	11-12	1	HC
	Instrumentation	1	09777	Electronics	No	No	9-12	1	HC
		2	09759	Computer Maintenance	No	No	11-12	2	SCC
		3	D9770A-D	Instrumentation-Dual Credit	Yes	Yes	11-12	2	LC
		4	D9004A-C	Instrumentation-Dual Credit	Yes	Yes	11-12	2	LC
		Add'l Sci	09778	Engineering Design & Problem Solving	Yes	No	11-12	1	HC
Options	Requirements	Course #	Course Name	Advanced CTE Course?	Weighted GPA?	Grade Level(s)	Credit(s)		
Mathematics Option	Five (5) credits in mathematics, including Algebra I, geometry, Algebra II and two (2) additional math courses for which Algebra II is a prerequisite	05103	Algebra I (Required)	No	No	9	1	HC	
		05603/05353	Geometry/Pre-AP Geometry (Required)	No	No / Yes	9-10	1	HC	
		05363/05383	Algebra II/Pre-AP Algebra II (required)	No	No / Yes	10-12	1	HC	
		05753	Pre-Calculus	No	No	11-12	1	HC	
		05763	Pre-AP Pre-Calculus	No	Yes	10-12	1	HC	
		05613	Math Models with Applications	No	No	10-12	1	HC	
		05783	AP Statistics	No	Yes	10-12	1	HC	
		05643	AP Calculus AB	No	Yes	11-12	1	HC	
		05653	AP Calculus BC	No	Yes	11-12	1	HC	
		01793	AP Computer Science	No	Yes	10-12	1	HC	
		TBD	Independent Studies	No	No	11-12	1	HC/LC	
		05623	Algebra III	No	No	11-12	1	HC	
		05200	Special Topics	No	No	11-12	1	HC	
		TBD	Dual Credit – College Algebra 1414	No	Yes	11-12	1	LC	
TBD	Dual Credit – Finite Math 1324	No	Yes	11-12	1	LC			
Science Option	Five (5) credits in science, including biology, chemistry, physics and two (2) additional science courses	08523/08513	Biology / Biology Pre-AP (Required)	No	No / Yes	9-12	1	HC	
		08763	Biology - AP	No	Yes	11-12	1	HC	
		08613/08623	Chemistry / Pre-AP Chemistry (required)	No	No / Yes	10-11	1	HC	
		08723	Physics (required)	No	No	11-12	1	HC	
		08833	Anatomy and Physiology	Yes	Yes	11-12	1	HC	
		09702	Animal Science, Advanced	Yes	No	12	1	HC	
		08793	Aquatic Science	No	No	11-12	1	HC	
		08853	Astronomy	No	No	12	1	HC	
		08743	Chemistry Advanced Placement	No	Yes	11-12	1	HC	
		09778	Engineering Design & Problem Solving	Yes	No	11-12	1	HC	
		08813	Environmental Science Advanced Placement	No	Yes	11-12	1	HC	
		09700	Food Science	Yes	No	11-12	1	HC	
		09795	Forensic Science	Yes	No	11-12	1	HC	
		TBD	Physics 1 Algebra Based Advanced Placement	No	Yes	12	1	HC	
		TBD	Physics 2 Algebra Based Advanced Placement	No	Yes	12	1	HC	
		8773	Physics C Advanced Placement	No	Yes	12	1	HC	
		19710	Plant Science, Advanced	Yes	No	11-12	1	SCC	
		TBD	Dual Credit Courses	No	Yes	11-12	1	LC	
Combination	In addition to Algebra I, geometry, Algebra 2, biology, chemistry, and physics, a coherent sequence of three additional credits from no more than two of the options above (CTE, Mathematics, or Science).								
Add'l optional STEM Electives		01763	Computer Science I	No	No	9-12	1	HC	
		01773	AP Computer Science	No	Yes	10-12	1	HC	
Career Preparation may be substituted in any sequence if work site is connected to previous courses taken, but may not be considered "final course in sequence" and may not replace an advanced CTE course									

Location Key: HC - Home Campus SCC - Stuart Career Center LC - Lee College AF - Agriscience Facility