GCCISD Science, Technology & Mathematics (STEM) Endorsement Quick Reference Guide

In the white boxes below, please number your 1st, 2nd, and 3rd choices for your program of study

P=Course has a required prerequisite; A=Course is an advanced CTE course

Grade Level	86-STEM - Engineering ☐	P	A
9th	09877 Intro to Engineering Design (1 cr.)	√	
10th	09780 Principles of Engineering (1 cr.)	√	
11th	09792 Environmental Sustainability (1 cr.) (REL & RSS) 09788 Computer Integrated Manufacturing (1 cr.) (GCM)	√ √	
12th	09796 Engineering Design & Development (1 cr.)	√	√

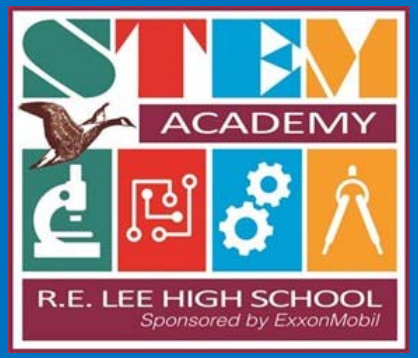
Grade Level	87-STEM - Instrumentation ☐	P	A
9th	09877 Intro to Engineering Design (1 cr.)	√	
10th	09780 Principles of Engineering (1 cr.)	√	
11th	IEIR 1302 DC-Intro. to Direct Current Circuits (½ cr.) INTC 1312 DC-Instrumentation & Safety (½ cr.)	√ √	√ √
12th	INTC 1307 DC-Instrumentation Test Equipment (½ cr.) INTC 1456 DC-Instrumentation Calibration (½ cr.)	√ √	√ √

Grade Level	89-STEM – Robotics (REL) ☐	P	A
9th	09877 Intro to Engineering Design (1 cr.)	√	
10th	09777 Electronics (1 cr.)		
11th	09779 Robotics & Animation (1 cr.)	√	
12th	19001 Engineering Design & Presentation (1 cr.)	√	√

REL ONLY

Grade Level	92-STEM – Science Option ☐	P	A
9th	08523 Biology (1 cr.) OR 08513 Pre-AP Biology (1 cr.)		
10th	08613 Chemistry (1 cr.) OR 08623 Pre-AP Chemistry (1 cr.) OR 08723 Physics (1 cr.) OR 08713 Pre-AP Physics (1 cr.) AND 05103 Algebra I (1 cr.) OR 05203 Pre-AP Algebra I (1 cr.)	√ √	√ √ √
11th	08613 Chemistry (1 cr.) OR 08623 Pre-AP Chemistry (1 cr.) OR 08723 Physics (1 cr.) OR 08713 Pre-AP Physics (1 cr.)	√ √	√ √
12th	08793 Aquatic Science (1 cr.)	√	√
	08853 Astronomy (1 cr.)	√	√
	09702 Advanced Animal Science (1 cr.)	√	√
	19710 Advanced Plant & Soil Science (1 cr.) (SCC)	√	√
	08833 Anatomy & Physiology (1 cr.)	√	√
	09778 Engineering Design & Problem Solving (1 cr.)	√	√
	09700 Food Science (1 cr.)	√	√
	09795 Forensic Science (1 cr.)	√	√
	09780 Principles of Engineering (1 cr.)	√	√
	AP Science Courses	√	√
	Dual Credit Science Courses	√	√
	General Biology (BIOL 1406 & 1407)	√	√
	General Chemistry (CHEM 1411 & 1412)	√	√
	College Physics (PHYS 1401 & 1402)	√	√
	Environmental Science (ENVR 1401 & 1402)	√	√
	Human Anatomy & Physiology (BIOL 2401 & 2402)	√	√
	Applied Petrochemical Technology (CTEC 1401)	√	√
4th & 5th Science Options			

Grade Level	99-STEM – Combination Option ☐	P	A
9th	05103 Algebra I (1 cr.) OR 05203 Pre-AP Algebra I (1 cr.) AND 08523 Biology (1 cr.) OR 08513 Pre-AP Biology (1 cr.)		
10th	05603 Geometry (1 cr.) OR 05353 Pre-AP Geometry (1 cr.) AND 08613 Chemistry (1 cr.) OR 08623 Pre-AP Chemistry (1 cr.) OR 08723 Physics (1 cr.) OR 08713 Pre-AP Physics (1 cr.)	√ √	
11th	05363 Algebra II (1 cr.) OR 05383 Pre-AP Algebra II (1 cr.) AND 08723 Physics (1 cr.) OR 08713 Pre-AP Physics (1 cr.) 08613 Chemistry (1 cr.) OR 08623 Pre-AP Chemistry (1 cr.)	√ √	
Credits in addition to Algebra II, Chemistry & Physics	A *coherent sequence* of three (3) additional credits from no more than two of the following options: STEM, math or science STEM, math with Algebra II prerequisite or science _____ STEM, math with Algebra II prerequisite or science _____ STEM, math with Algebra II prerequisite or science _____	 √ √ √	



Grade Level	91-STEM – Math Option ☐	P	A
9th	05103 Algebra I (1 cr.) OR 05203 Pre-AP Algebra I (1 cr.)		
10th	05603 Geometry (1 cr.) OR 05353 Pre-AP Geometry (1 cr.)	√ √	
11th	05363 Algebra II (1 cr.) OR 05383 Pre-AP Algebra II (1 cr.)	√ √	√ √
4th & 5th Math Options (Algebra II Pre-requisite)	Dual Credit-Independent Studies (MATH 1314, 1324, 2412)	√	√
	05753 Pre-Calculus (1 cr.)	√	√
	05763 Pre- AP Pre- Calculus (1 cr.)	√	√
	05643 AP Calculus AB (1 cr.)	√	√
	05653 AP Calculus BC	√	√
	05783 AP Statistics (1 cr.)	√	√
	09799 Statistics & Risk Management (1 cr.)	√	√

Student ID _____ Student Signature _____ Date _____