

Science, Technology, Engineering and Mathematics

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses for Engineering and Technology Pathway	SAMPLE Occupations Relating to This Pathway
	Inter	est Inventory Admin	istered and Plan of S	tudy Initiated for all	Learners			
SECONDARY	9	English/ Language Arts I	Algebra I or Geometry	Biology	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking record localing and	Click here to view the course catalog: https://www.graderesults.com/cte Industry-Based Certification Tests & Preparation Courses	 Aeronautical Engineer Aerospace Engineer Agricultural Engineer Agricultural Technician Application Engineer Architectural Engineer Automotive Engineer Biomedical Engineer Biotechnology Engineer CAD Technician
	10	English/ Language Arts II	Geometry or Algebra II	Chemistry	U.S. History			
	11	English/ Language Arts III	Algebra II or Trigonometry Pre-Calculus or Statistics	Physics	World History World Geography			
	College Placement Assessments-Academic/Career Advisement Provided					ing, record keeping and work-based experi-		► Chemical Engineer
	12	English/ Language Arts IV	Trigonometry or Pre-Calculus/ Calculus or AP Calculus or Math Analysis	AP Science or Structured Com- puter Program Language	Economics Entrepreneurship	ences.		 Civil Engineer Communications Engineer Computer Engineer Computer Programmer Construction Engineer
	Artic	Articulation/Dual Credit Transcripted-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.						▶ Electrical Engineer
POSTSECONDARY	Year 13	English Composition English Literature	Algebra or Trigonometry Calculus I Calculus II	Chemistry Physics I	Psychology Global Issues	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important	Click here to view the course catalog: https://www.graderesults.com/cte	 Electronics Technician Geothermal Engineer Industrial Engineer Manufacturing Engineer Manufacturing Technician Marine Engineer Mechanical Engineer Mining Engineer
	Year 14	Speech/ Oral Communication Professional and Technical Writing	Introduction to Differential Equations Calculus III Statistics	Physics II Biology	American History Sociology Ethics and Legal Issues			
	Year 15	Continue courses in the area of specialization.			tion.	to include.	<u>Preparation Courses</u>	 Nuclear Engineer Petroleum Engineer Product/Process Engineer Survey Technician
	Year 16						Systems Engineer Transportation Engineer	