



Science, Technology, Engineering & Math Cluster



	Grade	English	Math	Science	Social Studies	Other Required Courses	Career & Technical Courses																				
	High School	9	English 9	Algebra I	Earth or Environmental Science	State History or Civics	Physical Education Health	Introduction to Engineering & Design Metals/Manufacturing																			
10		English 10	Geometry or Algebra II	Biology	US History	Possible GTC Credit General Education English Composition I Speech Calculus 1 College Technical Math 1A College Technical Math 1B College Algebra & Trig w/Apps General Physics 1 Economics Intro to Psychology Intro to Sociology	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="text-align: center; font-weight: bold;">Cr.</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> </tr> </table>		Cr.		3		3		4		2		3		5		4		3		3
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11	English 11	Algebra II or Trigonometry	Chemistry	World History or Psychology		Digital Electronics Computer Integrated Manufacturing																					
College Placement Assessments (ACT, SAT, etc), Academic/Career Advisement Provided																											
12	English 12	Pre-Calculus or Calculus	Botany or other science course	Government or Economics	Cluster Courses Intro to Civil Engineering & Architecture DC/AC I Digital Electronics Drafting Seminar Intro to AutoCAD CAD Intermediate Intro to Mechanical Engineering Technology	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> </tr> </table>		2		3		4		2		2		2		2							
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Gateway Technical College	Associate Degrees		Technical Diplomas		Certificates		Credit Transfer Opportunities																				
	Engineering & Technology																										
<ul style="list-style-type: none"> Civil Engineering Technology-Public Works Civil Engineering Technology-Survey Electrical Engineering Technology EET-Biomedical Engineering Technology Electronics Mechanical Design Technology MDT-Mechatronics 					CAD/CAM Electrical Drafting Computer Aided Drafting/Manufacturing		<ul style="list-style-type: none"> • Franklin University • Marquette University • Milwaukee School of Engineering • UW-Platteville • St. Cloud State University <ul style="list-style-type: none"> • UW-Stout • UW-Oshkosh • Silver Lake College • DeVry University 																				
Careers	Requiring Postsecondary Education					Requiring Baccalaureate Degree																					
	<ul style="list-style-type: none"> • Assistant Estimator • AutoCAD/MicroStation Plan Production Assistant • Building Inspector • CAD Drafter • Checker • Communication Technician • Construction Inspector • Design Assistant • Designer • Detail Drafter 		<ul style="list-style-type: none"> • Drafter • Electrical Mechanic • Electromechanical Equipment Repair • Electromedical Service Engineer • Electronic-Maintenance Person • Electronic System Mechanic • Electronic Technician • Electronics Assembler • Electronics Mechanic • Electronics Specialist 		<ul style="list-style-type: none"> • Engineering Technician • Estimator • Expeditor • Field Service Representative • Field Technician • Layout Drafter • Material Testing Assistant • Project Designer • Registered Land Surveyor • Survey Assistant 		<ul style="list-style-type: none"> • Electrical Engineer • Electronic Engineer • Engineering Manager • Mechanical Engineer • Professional Civil Engineer • Professional Architect 																				