

Shenandoah High School

Pathway: STEM

		Grade Level						
Courses		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Academic Requirements	English	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	Honors Eng 9	Honors Eng 10	English Comp I – 3 semester hours American Literature– 3 semester hours	English Comp II – 3 semester hours British Literature – 3 semester hours
	Math	Ohio's New Learning Standards	Pre-Algebra Ohio's New Learning Standards	Algebra I	Geometry	Algebra II	College Algebra -- 4 semester hours Alg. & Trig. II -4 semester hours	Pre-Calculus – 5 semester hours Calculus – 5 semester hours Statistics – 3 semester hours
	Science	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	Physical Science	Biology	Chemistry Anatomy Earth Sci.	Physics Anatomy
	Social Sciences	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	World Studies (semester) American Hist. (1) (Semester)	American Hist. (2&3)	Government US History I – 3 semester hours	American National Government – 3 semester hours Psychology Sociology
	Language other than English				Spanish I	Spanish II	Spanish III	Spanish IV

	Visual and Performing Arts	Intro to Art	Intro to Art	Music Band	Art Choir/Band Guitar I	Advanced Art Choir/Band	Choir/Band Clay Guitar II	Choir/Band
	College Preparatory Elective						First Year College Success Strategies -1 Semester hr.	
	Other Elective Requirements				Health PE		Financial Mgt.	
Core Components	Technical Courses	Computer Applications	Computer Applications	Computer Applications	Intro to Microcomputers – 3 semester hours		Engineering Graphics -3 semester hours	Web Design
	Work-Based Learning Opportunities	Career Connections Resources	Ohio Means Jobs K-12 Field Trip to Local Higher Education	Career Speakers Career Center Visits Ohio Means Jobs K-12	Job Shadowing Ohio Means Jobs K-12 Career Speakers Field Trip to Local Higher Education	Job Shadowing Ohio Means Jobs K-12 Field Trip to Local Higher Education	Job Shadowing Ohio Means Jobs K-12 Field Trip to Higher Education College Fair	Job Shadowing Ohio Means Jobs K-12 Field Trip to Higher Education
	Courses	6	7	8	9	10	11	12

What types of jobs or career clusters are in this pathway? (Refer to Ohio Department of Education Career Pathways)

Mechanical Engineering Technology – www.zanestate.edu/programs/mechanical-engineering-technology

Civil Engineering Technology – www.zanestate.edu/programs/civil-engineering-technology

Industrial Maintenance Engineering Technology – www.zanestate.edu/programs/industrial-maintenance-technology