

## OAC Straight A Personalized Learning Pathways

### Pathway: STEM Tri-Valley High School

	Courses	Grade Level							Post-Secondary Level	
		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Grade 13	Grade 14
Academic Requirements	<b>English</b>	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	English 9 CP English 9 English 9 Honors	CP English 10 English Honors 10 English 10	English 11 English Honors 11 AP English Language Comp  <b>English Comp I – 3 semester hours</b>  <b>Literature of Crime – 3 semester hours</b>	English 12 CP English 12 AP English Literature  <b>English Comp II – 3 semester hours</b>  <b>British Literature – 3 semester hours</b>	<b>English Comp I – 3 semester hours</b>  <b>Technical Writing – 3 semester hours</b>	<b>English Comp II – 3 semester hours</b>
	<b>Math</b>	Ohio's New Learning Standards	Pre-Algebra  Ohio's New Learning Standards	Algebra I	Algebra II Algebra II Honors  Algebra Bridge	Geometry Geometry Honors  Algebra Bridge	Statistics Adv. Math <b>College Algebra – 4 semester hours</b>  <b>Pre-Calculus – 5 semester hours</b>	AP Calculus <b>Pre-Calculus – 5 semester hours</b>  <b>Calculus – 5 semester hours</b>	<b>Algebra &amp; Trig – 4 semester hours</b>	
	<b>Science</b>	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	Physical Science Biology	Biology  Chemistry	Chemistry AP Chemistry <b>General Biology – 3 semester hours</b>	Physics  Anatomy	<b>Chemistry – 3 semester hours</b>	
	<b>Social Sciences</b>	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	World Studies	US History  <b>Microeconomics – 3 semester hours</b>  <b>Macroeconomics – 3 semester hours</b>	<b>Western Civilization I – 3 semester hours</b>  <b>Western Civilization II – 3 semester hours</b>  <b>US History I – 3 semester hours</b>  <b>US History II – 3 semester hours</b>	US Government <b>American National Government – 3 semester hours</b>  <b>Psychology – 3 semester hours</b>  <b>Sociology – 3 semester hours</b>		

	<b>Language other than English</b>			ASL I German Mandarin Chinese	ASL II German II Mandarin Chinese II Spanish I	ASL III German III Mandarin Chinese III Spanish III	ASL VI German VI Mandarin Chinese VI Spanish VI			
	<b>Visual and Performing Arts</b>	Intro to Art Music	Intro to Art Music	Intro to Art	Instrumental Music/Symphonic Choir  Art Clay I	Instrumental Music/Symphonic Choir  Art II Clay II	Instrumental Music/Symphonic Choir  Studio Art <b>Intro to Theater—3 semester hours</b>	Instrumental Music/Symphonic Choir  <b>Script Analysis – 3 semester hours</b>		
	<b>College Preparatory Elective</b>				College and Career		<b>College Success Strategies – 1 semester hour</b>	Speech		
	<b>Other Elective Requirements</b>				Health  PE				<b>First Year Success – 1 semester hour</b>	<b>Public Speaking – 3 semester hours</b>
<b>Core Components</b>	<b>Technical Courses</b>		STEM		Intro to Engineering  <b>Intro to Microcomputers – 3 semester hours</b>	Principles of Engineering	Robotics  Digital Electronics	Civil Engineering	<b>Engineering Graphics – 3 semester hours</b>  <b>Manufacturing Processes – 3 semester hours</b>	<b>Project Management – 3 semester hours</b>
	<b>Work-Based Learning Opportunities</b>	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	13	14

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

<p>Mechanical Engineering Technology – <a href="http://www.zanestate.edu/programs/mechanical-engineering-technology">www.zanestate.edu/programs/mechanical-engineering-technology</a></p> <p>Civil Engineering Technology – <a href="http://www.zanestate.edu/programs/civil-engineering-technology">www.zanestate.edu/programs/civil-engineering-technology</a></p> <p>Industrial Maintenance Engineering Technology – <a href="http://www.zanestate.edu/programs/industrial-maintenance-technology">www.zanestate.edu/programs/industrial-maintenance-technology</a></p>
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