

## OAC Straight A Personalized Learning Pathways Template

Pathway: MLSD STEM (73 Semester Hours)

Academic Requirements	Courses	Grade Level							Post-Secondary Level
		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Possible Program Pathways
	English	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards Or English 1 (HS credit)	English 1	English 2	English 3 or English Comp 1 (3 sem hrs.) English Comp 2 (3 sem hrs.)	English 4 or American Lit (3 sem hrs.) British Lit (3 sem hrs.)	<b>Hocking College Programs:</b> Advanced Energy Architectural & Mechanical Design Computer Programming Construction Management – Commercial & Residential Electricity Industrial Ceramics Engineering Technology  <b>Washington State Programs:</b> Instrumentation Control & Electrical Chemical Operator Online Design Drafting Geotechnical Drafting Industrial Technology Multi-Craft for Industry Petroleum Industry Process Technician Welding Mechanical Engineering Technology Instrumentation, Control and Electrical  <b>ZaneState Programs:</b> Architectural Engineering Technology Civil Engineering Technology Electrical/Electronics Engineering Technology Energy and Engineering Programs Industrial Maintenance Technology Mechanical Engineering Technology Oil & Gas Engineering Technology Pathways to Engineering Welding & Fabrication Certificate
	Math	Ohio's New Learning Standards	Pre-Algebra	8 <sup>th</sup> Grade Math Or Algebra 1 (HS credit)	Geometry	Algebra 2	College Algebra (4 sem hrs.)	Intro to Calculus (4 sem hrs.) or Calculus (5 sem hrs.) or AP Calculus	
	Science	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	Physical Science	Biology	HS Chemistry or AP Chemistry General Biology (4 sem hrs.) General Chemistry (4 sem hrs.)	HS Physics or AP Physics Physics I (4 sem hrs.)	
	Social Sciences/History	Ohio's New Learning Standards	Ohio's New Learning Standards	Ohio's New Learning Standards	World History	US/American History	Government (3 sem hrs.)	Sociology (3 sem hrs.) Psychology (3 sem hrs.)	
	Language other than English				French or Spanish	French or Spanish	French IV or Spanish IV (4 sem hrs.)	French IV or Spanish IV (4 sem hrs.)	
	Visual and Performing Arts	Vocal Music Band Art	Vocal Music Band Art	Vocal Music Band Art	Vocal Music Band Art Drama Club	Vocal Music Band Art Drama Club	Vocal Music, Band Art, Drama Club MUS Theory (3 sem hrs.) MUS Styles (2 sem hrs.)	Vocal Music, Band Art, Drama Club MUS Theory (3 sem hrs.) MUS Styles (2 sem hrs.)	

\*Courses highlighted in RED are OTM/TAG College courses (credit may transferred to any Ohio State College/University). Students must meet College admissions requirements to enroll.

	Other Elective Requirements		Health (HS Credit)	Health (HS Credit)	Financial Management (Financial Literacy)	Drafting CAD			<b>Ohio University Programs:</b> Aviation Technology Chemical Engineering Civil Engineering Computer Science Electrical Engineering Engineering Technology & Management Industrial & Systems Engineering Energy Engineering Mechanical Engineering	
<b>Core Components</b>	Technical Courses		Introduction to Technology (HS Credit)	Introduction to Technology (HS Credit)	Plan Reading *Programming *Computer Software	*Web Design *Video & Sound  *Engineering Design	<u>Electronics/Networking</u> *Computer Hardware *AC/DC Electricity  or <u>Precision Machining</u> *Machine Tools *Machining w/Lathes	<u>Electronics/Networking</u> *Digital Electronics *Robotics *Networking  or <u>Precision Machining</u> *Milling & Lathes *CNC Machines		
	Integrated Units & Project-Based Units									
	Support Services									
	Work-Based Learning Opportunities						Apprenticeship or Internship	Apprenticeship or Internship		
	Course	6	7	8	9	10	11	12	13	14

**What types of jobs or career clusters are in this pathway?**

**Aerospace Engineer**

**CAD Technician**

**Civil Engineer**

**Computer Programmer**

<b>Grade</b>	<b>School Activities</b>	<b>Student Activities</b>	<b>Tools and Assessments</b>	<b>Learning Environment/Responsibility</b>	<b>Timeline</b>	<b>Resources We Have/Resources We Need</b>
6	1. Career Day 2. Math Night 3. PD with 6th gr staff on success plans and ohio means jobs			Elementary Building Staff Counselors	by the end of year 2016	
7	1. Career Special Speakers 2. Career Exploration	In class projects	Ohio Means Jobs Website	JH Staff Technology Teacher		
8	1. Career Special Speakers 2. MHS Career Tech Programs Visit and Career Advising Follow Up 3. Career Exploration	Field trip, one to one counseling, in class projects	Ohio Means Jobs Website	JH Staff JH Counselor HS Counselor Technology Teacher		
9	1. Army Recruit Visitation 2. Zane State Speaker Visitation 3. Freshman Orientation Day Camp 4. Upward Bound Planning	Day camp		HS/JH Counselors HS Principal and Teachers		
10	1. Career Fair 2. College Fair 3. CT Visits			JH/HS Counselors HS Principal and Teachers		

11	1. Military Visits 2. ASVAB 3. College and Career Fair 4. College Visitations 3 per Yr 5. ACT/SAT testing opportunities			HS/JH Counselors HS Principal and Teachers		
12	1. Military Visits 2. ASVAB 3. College Fair 4. College Visitations 3 per Yr 5. ACT/SAT testing opportunities			HS/JH Counselors HS Principal and Teachers		