

<b>First Semester (Fall – 9<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
English 9	1.000 (HS)
Geometry	1.000 (HS)
Energy & Matter	1.000 (HS)
World History/ Study Skills	1.000 (HS)

<b>Second Semester (Spring – 9<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
Government (JTerm)	1.000 (HS)
English 10	1.000 (HS)
Algebra II	1.000 (HS)
Biology	1.000 (HS)
Art	1.000 (HS)

<b>Third Semester (Fall – 10<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
English 11	1.000 (HS)
Trigonometry	1.000 (HS)
Chemistry	1.000 (HS)
American History	1.000 (HS)

<b>4th Semester (Spring – 10<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
Mechatronics (JTerm)	1.000 (HS)
English 12	1.000 (HS)
PreCalculus	1.000 (HS)
Physics	1.000 (HS)
Wellness	1.000 (HS)

<b>Fifth Semester (Fall – 11<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
Calculus	1.000 (HS)
DESIGN: Advanced Mechatronics	1.000 (HS)
DESIGN: Internship/ Rotations	1.000 (HS)
OSU MECHENG 2194 – Intro to Product Design	3.000

<b>Sixth Semester (Spring – 11<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
DESIGN: Capstone Research in Engineering	1.000 (HS)
DESIGN: Digital Electronics & Robotics	1.000 (HS)
OSU MATH 1151 – Calculus I	5.000
OSU ENGLISH 1110 – 1 <sup>st</sup> Yr. English Composition	3.000

<b>Seventh Semester (Fall – 12<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
OSU FOREIGN LANGUAGE	4.000
OSU MATH 1152 – Calculus II	5.000
OSU ECON 2001 – Principles of Microeconomics	3.000

<b>Eighth Semester (Spring – 12<sup>th</sup> Grade)</b>	
<i>Course</i>	<i>Credits</i>
OSU FOREIGN LANGUAGE	4.000
OSU MATH 2153 – Calculus III	4.000
OSU PHYSICS 1250 – Mechanics, Thermal Physics, Waves	5.000



**SAMPLE CURRICULUM**  
**Metro Early College High School**  
**DESIGN: Pre-Engineering**  
(for students interested in Engineering and/or Architecture)



**THE OHIO STATE**  
**UNIVERSITY**