

# Engineering Program of Study

## NeoCity Academy



**Engineering Defined:** The engineer of tomorrow will need to possess strong leadership characteristics, ingenuity, and adaptability as well as technical proficiency. Our program is focused on building students up through a curriculum designed around real-world problem solving and design thinking.

Grade	Mathematics		Science		English	Arts	Engineering	Elective	Virtual Option
<b>Summer Zero</b>	Geometry Honors *		Biology Honors *						Physical Education/ HOPE **
<b>09</b>	Most Rigorous	More Rigorous	Chemistry Honors		English 1 Honors	Digital Multimedia Foundations 1  <i>Certification Adobe Photoshop and/or Illustrator</i>	Applied Engineering Technology 1  <i>Certification Autodesk Fusion 360</i>	Foreign Language 1	
	Alg 2 Honors	Geometry Honors							
<b>10</b>	Pre-Calc Honors	Alg 2 Honors	AP Chemistry		English 2 Honors	<b>Social Studies</b>	Applied Engineering Technology 2  <i>Certification Autodesk ACU - Inventor</i>	Foreign Language 2	
						AP World History			
<b>11</b>	AP Calculus AB	Pre-Calc Honors	Most Rigorous	More Rigorous	AP English Language	AP United States History	Applied Engineering Technology 3  <i>Certification Autodesk ACU - AutoCAD and/or REVIT</i>	AP Seminar	
			AP Physics 1	Physics 1 Honors					
<b>12</b>	AP Calculus BC	AP Calculus AB	AP Physics C	AP Physics 1	AP English Literature	US Government Honors + Economics Honors	Advanced Technology Applications	AP Research	

\* Coursework may be required for those students who wish to complete the most rigorous progression available.

\*\* Can be take any time in the first two years; however, we recommend completion during Summer Zero.