

BioDesign Program of Study

NeoCity Academy



BioDesign Defined: Our BioDesign Program is driven by the need to integrate cutting edge technologies into the healthcare industries. Students in BioDesign will engage in a curriculum designed to stretch their thinking and through collaborative problem-solving will be ready to enter a post-secondary program in any healthcare related field.

Grade	Mathematics		Science	English	Arts	BioDesign	Elective	Virtual Option
Summer Zero	Geometry Honors *		Biology Honors *					Physical Education/ HOPE **
09	Most Rigorous	More Rigorous	Chemistry Honors	English 1 Honors	Digital Multimedia Foundations 1	Anatomy + Physiology Honors	Foreign Language 1	
	Alg 2 Honors	Geometry Honors						
10	Pre-Calc Honors	Alg 2 Honors	AP Biology	English 2 Honors	Social Studies	Principles of Biomedical Science	Foreign Language 2	
					AP World History			
11	AP Calculus BC	Pre-Calc Honors	AP Chemistry	AP English Language	AP United States History	Biotechnical Engineering	AP Research	
12	Calculus 3 via UCF	AP Calculus AB	AP Environmental Science	AP English Literature	US Government Honors + Economics Honors	Biomedical Innovation	AP Seminar	

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

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

Cybersecurity Program of Study

NeoCity Academy



Cybersecurity Defined: Our Cybersecurity Program is designed to immerse students in foundational knowledge of the field of cybersecurity and real-world problem solving. Our course of study is designed to produce graduates ready for a post-secondary path in cybersecurity or an IT related field focused on the defense of some of society's most important technologies.

Grade	Mathematics		Science	English	Arts	Cybersecurity	Elective	Virtual Option
Summer Zero	Geometry Honors *		Biology Honors *					Physical Education/ HOPE **
09	Most Rigorous	More Rigorous	Chemistry Honors	English 1 Honors	Digital Multimedia Foundations 1	IT Fundamentals	Foreign Language 1	
	Alg 2 Honors	Geometry Honors						
10	Pre-Calc Honors	Alg 2 Honors	AP Computer Science Principles	English 2 Honors	Social Studies	Computer + Network Security Fundamentals	Foreign Language 2	
					AP World History			
11	AP Calculus BC	Pre-Calc Honors	AP Physics 1	AP English Language	AP United States History	Cybersecurity Essentials	AP Research	
12	Calculus 3 via UCF	AP Calculus AB	AP Physics 2	AP English Literature	US Government Honors + Economics Honors	Operational Cybersecurity	AP Seminar	

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

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

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
Summer Zero	Geometry Honors *		Biology Honors *					Physical Education/ HOPE **
09	Most Rigorous	More Rigorous	Chemistry Honors	English 1 Honors	Digital Multimedia Foundations 1	Applied Engineering Technology 1	Foreign Language 1	
	Alg 2 Honors	Geometry Honors						
10	Pre-Calc Honors	Alg 2 Honors	AP Physics 1	English 2 Honors	Social Studies	Applied Engineering Technology 2	Foreign Language 2	
					AP World History			
11	AP Calculus BC	Pre-Calc Honors	AP Physics 2	AP English Language	AP United States History	Applied Engineering Technology 3	AP Research	
12	Calculus 3 via UCF	AP Calculus AB	AP Chemistry	AP English Literature	US Government Honors + Economics Honors	Advanced Technology Applications	AP Seminar	

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

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