COMPUTER SCIENCE ELECTIVES PROTOTYPE

PROGRAMMING: FOUNDATIONS FOR ANY CAREER (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
*CS Programming	**AP Comp Sci A (prereq. Algebra I & Geometry)	CS Data Structures (prereq. AP CS A)	CS Capstone (prereq. CS Data Structures)
*CS Programming	**AP Comp Sci Principles	Advanced Programming (prereq. CS Programming)	**AP Comp Sci A (prereq. Algebra I & Geometry)
CS Foundations	*CS Programming	Advanced Programming (prereq. CS Programming)	
CS Foundations	*CS Programming	IB Computer Science SL (prereq. CS Programming)	IB Comp Sci HL 2 (prereq. IB CS SL)

GAME AND WEB DESIGN (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
*CS Programming	DMWT (Info Sys or equiv. skill.)		
*CS Programming	Advanced Programming (prereq. CS Programming)	Game Design & Development (prereq. Advanced Programming or equiv.)	Advanced Game Design & Development

CYBERSECURITY (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
Cybersecurity Fundamentals	Cyber: Exploring IT	Cyber: Net Admin 1 DE option	Cyber: Security Capstone

CLOUD COMPUTING (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
Cybersecurity Fundamentals	Cyber: Net Admin 1 DE option	Cloud Computing DE option	
Cybersecurity Fundamentals	Cyber: Cisco 1 DE option	Cloud Computing DE option	

DATA MANAGEMENT (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
*CS Programming	**AP Comp Sci Principles	Cyber: Oracle 1 DE option	Cyber: Oracle 2 DE option

NETWORKING (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
Cybersecurity Fundamentals	Cyber: Net Admin 1 DE option	Cyber: Net Admin 2	Cloud Computing DE option
Cybersecurity Fundamentals	Cyber: Exploring IT	Cyber: Systems Tech DE option	
Cybersecurity Fundamentals	Cyber: Exploring IT	Cyber: Net Admin 1 DE option	Cyber: Security Capstone
Cybersecurity Fundamentals	Cyber: Cisco 1 DE option	Cyber: Cisco 2 DE option	Cloud Computing DE option
Cybersecurity Fundamentals	**AP Comp Sci Principles		

ROBOTICS (☐ career examples)

Year 1 (9-12)	Year 2	Year 3	Year 4
	STEM Robotics	STEM Adv Electronics Robotics (prereq. STEM Robotics)	
		Robotic Systems 1 (Fall semester double-block) Robotic Systems 2 (Spring semester double-block)	

Key:
- Green = Introductory Courses
- Blue = Courses that have CS Prerequisites.
- Yellow = Located at an Academy. May or may not have prereqs.

* Middle School CIT 1&2 Suggested   ** Can be taken in Year 1