SCIENCE, MATH, COMPUTER SCIENCE HOUSE-EXTENDED DAY

SMCSH has two different program certificates. The more prestigious certificate is the "Certificate of Achievement with Research." The second option is a "Certificate of Achievement" which does not have a research component. Students must successfully complete at least BC Calculus to obtain either of the SMCSH certificates.

	9	10	11	12
ENGLISH	Honors English 9	Honors English 10	• AP Language and Composition • Honors English 11	AP English Literature
SOCIAL STUDIES	Honors US History	• AP National State & Local Government • Honors National State & Local Government	• AP World History • Honors Modern World History	
SCIENCE	• Advanced Science 1—Physics* • Advanced Science 2—Chemistry*	• Advanced Science 3—Earth Science* • Advanced Science 4—Biology*	Students must complete a total of 6 semesters of SMCS electives** during their junior and senior years.	
RESEARCH	• Research and Experimentation for Problem Solving 1 A/B*	• SMCS Principles of Engineering*	• Research Design* and • Research Project A*	Research Project B
COMPUTER SCIENCE	• Fundamentals of Computer Science A/B*	• Algorithms and Data Structures A/B*		
MATHEMATICS	• Magnet Geometry* • Magnet Precalculus A/B* or • Magnet Functions A/B*	• Magnet Precalculus A/B • Magnet Precalculus C/D • Analysis 1 A/B or AP Calculus BC	• Magnet Precalculus C/D • Analysis 1 A/B or AP BC Calculus • Vector Calculus A/B or Multivariable Calculus A/B • AP Statistics* or Applied Statistics*/ Linear Algebra	• Analysis 1 A/B or AP Calculus BC • Vector Calculus A/B or Multivariable Calculus A/B • Linear Algebra • Discrete Math
ELECTIVES	• Physical Education • World Language—Spanish, French • Fine Arts	• Physical Education/Health • World Language—Spanish, French • Fine Arts	• Physical Education/Health • World Language—Spanish, French • Fine Arts	• Physical Education/Health • World Language—Spanish, French • Fine Arts • Internship

⌂ Courses may be linked and scheduled sequentially.

* Course is required for the SMCS Certificate of Achievement

** Research Project B, Cellular Physiology, Optics, Organic Chemistry, Thermodynamics, Quantum Physics, Analytical Chemistry, Biochemistry, Intro. to Physical Chemistry, Intro. to Genetic Analysis, Marine Biology, AP Chemistry, AP Biology, AP Physics B or C, Analysis of Algorithms, Computer Graphics, Software Design, Networking, Robotics, Materials Science, Writing Mobile Applications, Intro to Cyber Forensics/Security, Programming languages