

GSST Program Model 2023-2024 SY

* College Credits Subject to Annual Review *

Year	Science	Research	Math	HS	VPCC
Engineering		Prerequisites: Biology, Chemistry, and Math minimum of PreCalculus			
11	Calculus-based Engineering Physics I <i>2 HS Science, 4 VPCC</i>	Research Methodology & Ethics <i>1 HS Elective, 3 VPCC</i>	Calculus 1 HS Math, 8 VPCC	4	15
			MultiVariable Calculus 1 HS Math, 4 VPCC	4	11
12	Calculus-based Engineering Physics III & IV <i>2 HS Science, 3 VPCC</i>	Honors Research & Mentorship <i>2 HS Elective, 6 VPCC</i>	MultiVariable Calculus 1 HS Math, 4 VPCC	5	13
			Differential Equations 1 HS Math, 3 VPCC	5	12
			Linear Algebra 1 HS Math, 3 VPCC	5	12
Biological Science		Prerequisites: Biology, Chemistry, and Math minimum of Algebra II / Trig <i>Recommended students take Physics at their home school division</i>			
11	Advanced Chemical Analysis <i>2 HS Science, 8 VPCC</i>	Research Methodology & Ethics <i>1 HS Elective, 3 VPCC</i>	PreCalculus 1 HS Math, 6 VPCC	4	17
			Calculus 1 HS Math, 8 VPCC	4	19
			MultiVariable Calculus 1 HS Math, 4 VPCC	4	15
12	Advanced Biological Analysis <i>2 HS Science, 8 VPCC</i>	Honors Research & Mentorship <i>2 HS Elective, 6 VPCC</i>	Calculus 1 HS Math, 8 VPCC	5	22
			MultiVariable Calculus 1 HS Math, 4 VPCC	5	18
			Differential Equations 1 HS Math, 3 VPCC	5	17
			Linear Algebra 1 HS Math, 3 VPCC	5	17
Computational Science		Prerequisites: Biology, Chemistry, and Math minimum of Algebra II / Trig			
11	Computational Physics <i>2 HS Science, 8 VPCC</i>	Research Methodology & Ethics <i>1 HS Elective, 3 VPCC</i>	PreCalculus 1 HS Math, 6 VPCC	4	17
			Calculus 1 HS Math, 8 VPCC	4	19
			MultiVariable Calculus 1 HS Math, 4 VPCC	4	15
12	Engineering Design, Innovation & Entrepreneurship <i>2 HS Science</i>	Honors Research & Mentorship <i>2 HS Elective, 6 VPCC</i>	Calculus 1 HS Math, 8 VPCC	5	14
			MultiVariable Calculus 1 HS Math, 4 VPCC	5	10
			Differential Equations 1 HS Math, 3 VPCC	5	9
			Linear Algebra 1 HS Math, 3 VPCC	5	9

* It is imperative that students meet with their school counselor to ensure requirements for Advanced Diploma are met

** While the Governor's School for Science and Technology (GSST) will do all in its power to secure dual enrollment (DE) status for its courses, dual enrolled course credits are not guaranteed. Since the Virginia Community College System (VCCS) and Thomas Nelson Community College (TNCC) set the criteria for DE and must approve each course and instructor, unavoidable circumstances that are not within the control of GSST may change the DE eligibility of any given GSST course. Alternative pathways for meeting specialty program requirements (E.g. concurrent Associates Degree) should be discussed in advance with the home high school counselor.