GENERAL ENGINEERING | Fall 2026 Implementation

This is the general common curriculum for Biomedical, Chemical, Civil, Electrical, Computer, Mechanical, and Aerospace Engineering.

Aerospace Engineering.

TransferVA – General Engineering Two-Year Curriculum
Current Master Course File: https://courses.vccs.edu

Associate Pourse Pressions and a Constitution of the Market Course Section 2015					
Student Development	1-2				
Written Communication Block I	3	ENG 111 College Composition I			
	3	ENG 112 College Composition II			
		ENG 113 Technical Professional Writing			
	3	Any UCGS Art or Humanities course			
	3	Any UCGS Art, Humanities, or Literature			
BIOCK II		(must be from a different category than previous selection)			
Social & Behavioral Sciences	3	Any UCGS Social & Behavioral Science course			
History	3	Any UCGS History course			
	4	CHM 111 Chamistry I			
		•			
		FIII 241 OHIV FHYSICS I			
Block V	4	MTH 263 Calculus I			
	4	MTH 264 Calculus II			
General Education	4	CHM 111 Chemistry I			
UCGS Block VII		•			
		PHY 242 Univ Physics II			
	6-8	MTH 265 Calculus III			
		MTH 288 Discrete Math			
		MTH 283 Prob & Stat			
	2				
	Associate Degree Requirements Student Development Written Communication Block I Art/Humanities/Literature Block II Social & Behavioral Sciences Block III History Block VI Natural Sciences Block IV Math Block V General Education	Associate Degree Requirements Student Development 1-2 Written Communication Block I Art/Humanities/Literature Block II Social & Behavioral Sciences Block III History Block VI Natural Sciences Block IV Math Block V General Education Block VII 4 6-8	Associate Degree Requirements Credits VCCS Courses Student Development 1-2 SDV 100 or 101 Written Communication Block I 3 ENG 111 College Composition I Art/Humanities/Literature Block II 3 Any UCGS Art or Humanities course Any UCGS Art, Humanities, or Literature (must be from a different category than previous selection) Any UCGS Social & Behavioral Science course Block III 3 Any UCGS Social & Behavioral Science course Block VI 3 Any UCGS History course Natural Sciences Block IV 4 CHM 111 Chemistry I Natural Sciences Block IV 4 CHM 111 Chemistry I Math Block IV 4 MTH 263 Calculus I General Education Block VI 4 MTH 264 Calculus II General Education Block VII 4 PHY 241 Univ Physics I MTH 265 Calculus III MTH 265 Calculus III MTH 265 Linear Algebra MTH 266 Linear Algebra MTH 288 Discrete Math MTH 283 Prob & Stat		

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	Total Credits	65-70		
requirements			community college advisor for additional guidance.	
major			Consult transfer guides on www.transfervirginia.org and	
Pre-major and				
			the 65-70 credit requirement.	
			courses from the rows above or transfer elective courses to fulfill	
			167) and community college requirements should take additional	
	courses		Students who have completed all prerequisites (MTH 161-162 or	
	degree requirements, and other	Up to 18		
	Prerequisites, additional associate		GOL 105 Physical Geology	
			CST 100 or CST 110 Communications	
			CHM 242/246 Organic Chemistry II	
			CHM 241/245 Organic Chemistry I	
			CHM 112 Chemistry II	
			BIO 206 Cell Biology	
			BIO 101 General Biology I	
			CSC 223 Data Structures	
			CSC 222 Object Oriented Programming	
			CSC 221 Introduction to Problem Solving and Programming	
			EGR 232 Chemical Engineering Thermodynamics	
			EGR 231 Mass and Energy Balances	
			EGR 282 Hydraulics for Civil and Environmental Engineering	
			EGR 280 Foundations of Environmental Engineering	
			EGR 272 Electric Circuits II	
		9-10	EGR 271 Electric Circuits I	
			EGR 270 Fundamentals of Computer Engineering	
			EGR 248 Thermodynamics for Engineering,	
	Major Specific Engineering Classes		EGR 246 Mechanics of Materials	
			EGR 245 Dynamics	
			EGR 240 Statics	
			EGR 206 Engineering Economics	
			EGR 125 Introduction to Programming for Engineers	
			EGR 122 Engineering Design	

Course Prerequisites: Engineering program is based on students being Calculus ready. Precalculus courses do not apply to Engineering degree requirements upon transfer. If a student needs to complete MTH 161/162 or MTH 167 first, it is recommended that they start in the Associate of Science in Science or Computer Science, prior to enrolling in Engineering.					
•	udent transcript. The language impac	ts the trans	cution, the language will be indicated as a "Topic" in SIS and sferability of some courses or the requirement of having a e on the final tab of this curriculum plan.		
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