TRANSFER GUIDE Catalog Years: 2025-2026

Virginia Commonwealth University Bachelor of Science in Electrical Engineering Associate Transfer Degree Plan in Engineering

COURSE REQUIREMENTS									
	Complete at VCCS		Complete at VCU						
BACHELOR'S DEGREE REQUIREMENT		SATISFIED BY		BACHELOR'S DEGREE REQUIREMENT					
Course	Credits	CC Course	Notes	Course	Credits	Notes			
UNIV 101	1-2	SDV 100 College Success Skills or SDV 101 Orientation to _		EGRE 201	3				
UNIV 111-112	3	ENG 111 College Comp I	UNIV 111 is waived and students receive 3 credits for UNIV 112.	EGRE 245	0-4	Take at VCU if EGR 125 does not teach C++			
UNIV 200	3	ENG 112 College Comp II		EGRE 246	3				
PHIL 201	3	PHI 220 Ethics		EGRE 254	4				
General Education	3	Any UCGS Art or Literature course (Block II)		EGRE 303	3				
General Education	3	Any UCGS History course (Block VI)		EGRE 306	4				
ECON 210	3	ECO 202 Microeconomics	This course will substitute for the ECON 205 requirements at VCU.	EGRE 309	3				
MATH 200	4	MTH 263 Calculus I		EGRE 310	3				
MATH 201	4	MTH 264 Calculus II		EGRE 335	4				
MATH 307	4	MTH 265 Calculus III		EGRE 336	3				
MATH 301	3	MTH 267 Differential Equations		EGRE 337	3				
PHYS 207	4	PHY 241 University Physics I		EGRE 364	4				
PHYS 208	4	PHY 242 University Physics II		EGRE 399	3				

CHEM/Z 101	4	CHM 111 General Chemistry I		ENGR 395	1	
	2	EGR 121 Foundations of Engineering		Select one of the following sequences: EGRE 404+EGRE 405 OR EGRE 406+EGRE 407	4	
EGRE 101	3	EGR 122 Engineering Design	Need both EGR 121 and 122 to receive credit for EGRE 101	MATH 310	3	MTH 266 at VCCS fulfils this requirement.
EGRE 245	4	EGR 125 Intro to Computer Programming for Engineers	Must be C++ to receive credit for EGRE 245	Technical electives	14	See VCU advisor for course options.
EGRE 254	4	EGR 270 Fundamentals of Computer Engineering		Math/science elective	3	See VCU advisor for course options.
EGRE 206	4	EGR 271 Circuits I				
EGRE 207	4	EGR 272 Circuits II				
CREDITS PRE-TRANSFER: 66-67				CREDITS POST-TRANSFER: 63-67		

TRANSFER GUIDANCE

Guaranteed Program Admission Agreement for VCU Engineering

By meeting the following criteria, you are guaranteed admission to the BS in Electrical Engineering program at VCU

- Earn a transfer associate degree (AS or AA&S in Engineering).
- Earn a minimum GPA of 3.0 for your associate degree. VCU will recognize the cumulative GPA as recorded on the VCCS transcript and not recalculate based on multiple course attempts.
- Complete a minimum of 30 credits at VCCS institution.
- Earn grades of "B" or higher in all your EGR, MTH, and science courses.
- Earn grades of "C" or higher in all other community college courses

IMPORTANT LINKS & DATES:

- University Transfer Center: https://transfer.vcu.edu/.
- Register Intent to Transfer: https://ugradadmissions.vcu.edu/register/letterofinterest.
- Admission Application: By March 15 for fall admission and November 1 for spring at https://www.vcu.edu/admissions/apply/.

- Financial Aid: https://semss.vcu.edu/our-services/financial-resources-and-guidance/.
- FAFSA Free Application for Federal Student Aid: March 1 for fall semester at https://studentaid.gov/h/apply-for-aid/fafsa.

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Complete your English courses and any math prerequisites in your first year.
- Create a schedule for all required courses, pay attention to prerequisites and when courses are offered. For help, see Transfer Steps and Resource Center at www.TransferVirginia.org.
- Connect with an advisor at your community college and the VCU Transfer Center_within your first semester through your account at www.TransferVirginia.org.
- Contact VCU advisor about summer course options prior to enrollment at VCU.

IS THIS DEGREE RIGHT FOR ME?

Electrical engineers design, develop, test, and supervise the manufacture of electrical
equipment. Some of this equipment includes electric motors; machinery controls, lighting,
and wiring in buildings; radar and navigation systems; communications systems; and power
generation, control, and transmission devices used by electric utilities. Electrical engineers

specialize in areas such as communications, signal processing, and control systems or have a specialty within one of these areas, control systems or aviation electronics, for example.

WHAT IS THE IMPACT ON MY DEGREE OF WORK I HAVE ALREADY COMPLETED?

- Associate Transfer Degree Completion: The completion of a transfer associate degree results in all lower-division general education requirements being met when you transfer to VCU.
- Dual Enrollment Completion of Associate Degree in HS: The completion of an associate
 degree concurrent with high school results in 60 credits of course work applied towards your
 degree and VCU's general education courses satisfied. High school students should apply to
 VCU as freshman applicants for orientation and engagement purposes.
- Credit for Prior Learning: VCU accepts AP, IB, Cambridge, CLEP, DANTES, and military credits.
- Catalog Year: VCU will honor the degree requirements of the VCU Undergraduate Bulletin in effect at the time of the student's first post-high school enrollment into an appropriate associate degree at the two-year institution. Students must stay enrolled at their community college and take no more than four years to complete their degree. Students must also enroll at VCU within one year of completing their associate degree.

IS THIS COLLEGE RIGHT FOR ME?

- Located in downtown Richmond, within two hours of the beach, the mountains and Washington DC, VCU provides top-ranked academic programs, research opportunities and an urban setting so students can live and learn in the real world.
- VCU is a large, public research institution dedicated to the success and well-being of students and the Richmond community.
- Diversity, inclusion and equity are deeply ingrained core values of VCU.

Learn more about our college at www.TransferVirginia.org

DID YOU KNOW THAT...

- Completing your Associate transfer degree post-high school satisfies all lower division general education requirements and increases the chance of completing your bachelor's degree?
- Exceeding 3 years or 90 credits at your community college means you may have exhausted your financial aid at that college and have limited your future financial aid at VCU?

WHAT CAN I DO WITH THIS DEGREE?

Explore possible careers, salaries, and job outlook at www.TransferVirginia.org

PROGRAM SUCCESSES & HIGHLIGHTS

The Department of Electrical and Computer Engineering conducts cutting-edge research in the following major areas:

- Micro-/Nano-electronics and Photonics for developing novel electronic, magnetic, and
 optical materials and devices for the next generation ultrafast computers, light emitters,
 photovoltaics, power electronics, wearable and implantable medical sensors for continuous
 health monitoring, etc.
- Communications, Signal Processing, Power & Controls for advancing materials, devices, and
 algorithms to achieve great leaps in mobile/wireless technologies that can address the ever
 increasing demand for higher data rates and larger bandwidths, wireless telemetry for health
 monitoring, and for improving efficiency of energy generation and utilization, incorporation
 of sustainable and renewable power technologies to smart grids, and developing
 methodologies for control of ever increasingly complex systems ranging from industrial to
 nanoscale.
- Computer & Cyber-Physical Systems to develop architectures for ultrafast and low power computing, secure cyber-physical systems, embedded systems, autonomous vehicles, robots, and effective methods for processing big data and enhancing cloud and multicore computing, etc.

WHAT ARE MY CHANCES FOR GETTING ACCEPTED?

If you apply through general application instead of through the Guaranteed Program Admission Agreement, you will be considered for admission with all other transfer applicants.

Learn more about applying to VCU at https://www.vcu.edu/admissions/apply/transfer/

DO MORE WITH YOUR DEGREE!

The accelerated B.S. and M.S. programs allows qualified students to earn both the B.S. and a M.S. in Computer Science or Engineering in a minimum of five years by completing approved graduate courses during the senior year of their undergraduate program.

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- All students must complete at least one VCU "REAL" experiential learning activity in order to
 graduate from VCU. Examples of REAL activities include: internships, research, and service
 learning. This requirement may be satisfied by completing a 300-level (or higher) REAL course
 or through an approved REAL co-curricular experience.
- Learn more at https://real.vcu.edu/.