

George Mason University BS in Civil and Infrastructure Engineering

Associate Transfer Degree Plan in Engineering

COURSE REQUIREMENTS

Complete at Virginia Community College				Complete at George Mason University		
BACHELOR'S DEGREE REQUIREMENT		SATISFIED BY		BACHELOR'S DEGREE REQUIREMENT		
Course	Credits	CC Course	Notes	Course	Credits	Notes
General Elective: UNIV 100	1	SDV 100		Gen Ed: Upper Level Written Comm ENGH 302	3	
General Elective: ENGH ---	3	ENG 111		Major & Gen Ed: Oral Communication	0-3	Not needed if taken as part of AS
Gen Ed: Written Comm ENGH 101	3	ENG 112	Admission Requirement	Major: CEIE 203	3	
Gen Ed: Arts	3	ART 100, ART 101, ART 102, CST 130, CST 151, MUS 101	Course options listed are Passport and/or UCGS courses. Additional options may be available. Can be waived with degree completion.	Major: CEIE 241	3	
Gen Ed: Literature	3	ENG 225, ENG 245, ENG 246, ENG 250, ENG 255, ENG 258, ENG 275	Course options listed are Passport and/or UCGS courses. Additional options may be available. Can be waived with degree completion.	Major: CEIE 242	1	
Gen Ed: Global History	3	HIS 101, HIS 102, HIS 111, HIS 112	HIS 112 recommended. Course options listed are Passport and/or UCGS courses. Additional options may be available. Can be waived with degree completion.	Major: CEIE 301	3	Writing Intensive
Major & Gen Ed: Social & Behavioral Science: ECON 103	3	ECO 202		Major: CEIE 311	3	
Major and Gen Ed: Quant MATH 113	4	MTH 263	Students must earn an A or B in MTH 263 to be admitted to CEIE	Major: CEIE 332	3	
Major: MATH 114	4	MTH 264	Students must earn an A or B in MTH 264 to be admitted to CEIE	Major: CEIE 333	1	

Major: MATH 213	4	MTH 265		Major: CEIE 340	3	
Major: MATH 214	3	MTH 267		Major: CEIE 360	3	
Major & Gen Ed: Natural Science: PHYS 160/161	4	PHY 241		Major: CEIE 370	3	
Major & Gen Ed: Natural Science: PHYS 260/261	4	PHY 242		Major: CEIE 409	1	
Major: CHEM 211/213	4	CHM 111		Major: CEIE 490	1	
Major: ENGR 107	2	EGR 121		Major: CEIE 491	3	Gen Ed: Apex
Major: ENGR 125T	4	EGR 125		Major: Technical Electives	24	12 credits of Technical Electives are selected from four of six specialty areas. The remaining 12 credits are any 400-level CEIE courses. See advisor to select the appropriate combination.
Major: CEIE 210	3	EGR 240		Major: PHY 266	1	
Major: CEIE L355	3	EGR 280	If EGR 280 is not available, students may take CIV 280 instead. Students should not complete both EGR 280 and CIV 280.	Major: BIOL 177	3	
Major: CEIE L310 or ME 212	3	EGR 246				
Major: STAT L344	3	MTH 283				
Major & Gen Ed Oral Comm: COMM 100 or COMM 101	0-3	CST 100 or CST 110	As needed to complete AS			
CREDITS PRE-TRANSFER: 64-67				CREDITS POST-TRANSFER: 65-68		

TRANSFER GUIDANCE

Transfer Admission Requirements: Civil and Infrastructure Engineering

- Transfer applicants must have completed the equivalent of MATH 113 Calculus I (4 credits) and Math 114 Calculus II (4 credits) with grades of A or B in each MATH course before applying to George Mason. MTH 263 and MTH 264 are the VCCS equivalents of MATH 113 and MATH 114, respectively.
- Transfer applicants must present a minimum 2.5 cumulative GPA.
- Prior to applying, VCCS applicants must complete an English composition equivalent to ENGH 101 (ENG 112). Students may provide secondary school coursework or test scores demonstrating [English language proficiency](#).
- GAA applicants must present a minimum 2.85 cumulative GPA. For more information about Guaranteed Admission Agreement Requirements, visit: <https://www.vccs.edu/transfer-programs/>

IMPORTANT LINKS & DATES:

- **Office of Transfer Services:** <https://www.gmu.edu/admissions-aid/apply-now/how-apply/transfer/office-transfer-services>
- **Admission Application:** By Oct 1 or March 1 at <https://www.gmu.edu/admissions-aid/apply-now>
- **Financial Aid:** <https://www.gmu.edu/financial-aid>
- **FAFSA - Free Application for Federal Student Aid:** March 15 for Fall admission and November 1 for Spring admission at studentaid.gov

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES?

- Create a schedule for all required courses, pay attention to prerequisites and when courses are offered, complete your first math and English courses in your first year. For help, see Transfer Steps and Resource Center at www.TransferVirginia.org
- Connect with an advisor at your community college within your first year. College connect available in your account of www.TransferVirginia.org
- Connect with an advisor if you are uncertain whether a course will transfer to George Mason.

IS THIS DEGREE RIGHT FOR ME?

- As infrastructure continues to age, civil engineers will be needed to manage projects to rebuild, repair, and upgrade bridges, roads, levees, dams, airports, buildings, and structures of all types.
- If you have a passion for engineering work that will impact the quality of human lives and want to earn a decent salary while doing so, then civil engineering might be the right major for you.

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

- **Associate Transfer Degree Completion:** Students who complete a VCCS transfer associate degree (AS, AA, AA&S, & AFA) will receive a waiver of the Foundation and Exploration (lower division) Mason Core general education categories. To be eligible for the waiver, the students must provide the George Mason Office of Admissions with a final, official transcript reflecting the degree conferral date. As a prerequisite for ENGH 302, ENGH 101 is not waived. Students must complete ENGH 100 or ENGH 101, or an equivalent, with a C or higher.
- **Dual Enrollment – Completion of Associate Degree in HS:** Applicants are required to apply as freshman

- **Credit for Prior Learning:** Credit by exam may be used to fulfill General Education and/or major requirements. See: <https://www.gmu.edu/admissions-aid/apply-now/how-apply/transfer/transfer-credit-policy>
- **Catalog Year:** Catalog year determined by first term of attendance at George Mason.

IS THIS COLLEGE RIGHT FOR ME?

- Located in Fairfax, Virginia, within the Washington metropolitan area, George Mason enrolls more than 28,000 undergraduate students from all 50 states and more than 130 countries in 78 in-demand majors.
- More than 4,500 new transfer students choose George Mason each year, and the university has been recognized as the most diverse in Virginia by U.S. News & World Report.
- Transfer students are welcome to live among our 7700-student residential community or off campus. The Office of Contemporary Student Services is dedicated to the support of off-campus transfers.
- 65% of George Mason students receive financial aid.
- 22 Division I men's and women's sports teams, plus club and intramural leagues, and more than 400 student organizations.
- For more information, visit: <https://www.gmu.edu/transfer>
- Learn more about our college at www.TransferVirginia.org

DID YOU KNOW THAT...

- Employment of civil engineers is projected to grow 8 percent from 2020 to 2030, about as fast as the average for all occupations.
- The median annual wage for civil engineers was \$88,050 in May 2021.

WHAT CAN I DO WITH THIS DEGREE?

- Explore possible careers, salaries, and job outlook at: [U.S. Bureau of Labor Statistics](https://www.bls.gov)

PROGRAM SUCCESSES & HIGHLIGHTS

- We have a strong Civil Engineering Institute Board, which is composed of engineering leaders from industry, government, and academia. Read about the department's activities and accomplishments in our [annual report](#).

DO MORE WITH YOUR DEGREE!

- A degree in civil engineering can also prepare you for a job in business, project management, and finance.

OTHER THAN CLASSES, ARE THERE OTHER PROGRAM REQUIREMENTS?

- While not a program requirement, we strongly encourage students to obtain relevant experience through co-ops or internships for careers in civil engineering.
- Consider obtaining professional certifications such as the Engineer in Training (EIT), which is available to recent graduates and current undergraduate students enrolled in accredited programs. You can obtain detailed information from the [NCEES](https://www.ncees.org) website.
- Join the American Society of Civil Engineers to participate in projects and activities to increase marketability beyond graduation.