

George Mason University BS in Mechanical Engineering
Germanna AS in Engineering
2026-2027

ADVANCE
 PART OF THE MASON VIRGINIA PROMISE



Transfer Requirements

1. Complete the associate degree with a 2.5 or higher cumulative GPA.
2. ENG 111, ENG 112, and a college-level math course must be completed with a C or higher in the first 45 credits. See the pathway to select the correct math course(s) for the intended major
3. Transfer to George Mason for the fall or spring semester immediately following the conferral of the pathway associate degree.
4. Grades of C or higher are required for transfer credit. Select programs may require a higher grade in specified courses. See the program-specific requirements noted on the pathway.
5. Students must complete their associate degree within five years of entering the program.

Associate Degree Requirements

#	Associate Degree Requirement & Course	Credits	George Mason Equivalent	George Mason Degree Requirement
1	SDV 101	1	UNIV 100	General Elective
2	ENG 111	3	ENGH —	General Elective
3	EGR 121	2	ENGR 107	General Elective
4	CHM 111	4	CHEM 211/213	Major & Gen Ed: Natural Science
5	MTH 263	4	MATH 113	Major & Gen Ed: Quant Reasoning
6	UCGS Art & Humanities I: ART 101, ART 102, or MUS 121	3	ARTH 200, ARTH 201, or MUSI 101	Gen Ed: Arts
7	ENG 112	3	ENGH 101	Gen Ed: Written Comm
8	PHY 241	4	PHYS 160/161	Major & Gen Ed: Natural Science
9	EGR 122	3	ME 151	Major
10	MTH 264	4	MTH 114	Major
11	EGR 125	4	ENGR 125T	Major & Gen Ed: Info Tech
12	MTH 265	4	MATH 213	Major
13	EGR 240	3	ME 211	Major
14	PHY 242	4	PHYS 260/261	Major
15	EGR 248	3	ME 221	Major
16	UCGS Social Science Elective: ECO 202	3	ECON 103	Major & Gen Ed: Soc/Behav Sci
17	MTH 267	3	MATH 214	Major
18	EGR 245	3	ME 231	Major
19	EGR 246	3	ME 212	Major
20	UCGS Art, Humanities Literature Elective II: ENG 225, ENG 245, ENG 246, ENG 250, ENG 255, ENG 258, ENG 275, HUM 259	3	George Mason Equivalent ¹	Gen Ed: Literature
21	UCGS HIS Elective: HIS 101, HIS 102, HIS 111, or HIS 112 (recommended)	3	HIST 101T, HIST 102T, HIST 387T, HIST 125	Gen Ed: Global History
	Associate degree total: <i>Students must apply to graduate by the community college graduation application deadline.</i>	67		

Bachelor's Degree Requirements

#	Degree Requirement & Course	Credits	Notes
22	Gen Ed: Written Comm: ENGH 302	3	
23	Major & Gen Ed: Oral Comm: COMM 101	3	
24	ECE 330	3	
25	ME 311	1	
26	ME 313	3	
27	ME 321	1	
28	ME 322	3	
29	ME 323	3	
30	ME 331	3	
31	ME 341 or ME 342	3	
32	ME 352	3	
33	ME 432	4	
34	ME 443	3	
35	Major & Gen Ed: Apex: ME 444	3	Writing Intensive
36	ME 453	2	
37	Upper Level Electives from the College of Engineering & Computing	12	Students may elect to use these electives to complete an optional concentration in Aerospace Engineering, Engineering Design, Engineering Mechanics, Microfabrication, Robotics, or Specialized Facilities. See the catalog for more information. ²
38	ME 351	3	
39	Approved Math or Science Elective ²	3	
	Total post-transfer credits:	59	
	Pathway total:	126	

Footnotes:

1. To confirm George Mason equivalencies, visit: [George Mason Transfer Credit Matrix](#).
2. Visit the [Current Mechanical Engineering, BS Catalog](#) for more information. Please navigate to your specific catalog year using the [Catalog Archive](#).

Additional Academic Information:

- Students who complete a VCCS transfer associate degree (AS, AA, AA&S, or 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.
 - When a course fulfills a Mason Core requirement and a major or college requirement (e.g. Major & Quant), students must complete the course listed on the pathway to fulfill the major/college requirement. Courses that fulfill only Mason Core Foundation and Exploration categories are recommendations. In most pathways, ADVANCE students must complete a Quantitative Reasoning course to matriculate through ADVANCE.
 - ADVANCE students must complete the associate degree indicated on their pathway (see the Transfer Requirements listed above). Students who withdraw from ADVANCE and transfer without the associate degree or UCGS are required to complete each Mason Core general education category
- All students seeking a bachelor's degree must apply at least 45 credits of upper-level courses (numbered 300 or above) toward graduation.
- For academic policies and procedures relating to the associate degree, please navigate to your specific catalog year using the Archive Catalog link: [College Catalog Archive](#)
- For academic policies and procedures relating to the bachelor's degree, please visit: [George Mason Catalog](#). Navigate to your specific catalog year requirements using the catalog archive: [George Mason Catalog Archive](#).