Required 300+ hour Internship (typically in summer after junior yr.) or Co-Op (2-3 full-time work terms between freshman & senior years)

MATH 200 Calculus I 4 hrs.
MATH 201 Calculus II 4 hrs.
MATH 301 Differential Equations 3 hrs.
MATH 307 Multivariate Calculus 4 hrs.
STAT 441 Applied Statistics 3 hrs.
EGMN 321 Numerical Methods 3 hrs. Fall
EGMN 420 CAE Design 3 hrs. Fall
EGMN 421 CAE Analysis 3 hrs. Spring
ECON 205 Economics of Product Dev. 3 hrs.
ENGR 402 Senior Design Studio I 1 hr. Fall
EGMN 402 Senior Design Lab I 2 hrs. Fall
EGMN 403 Senior Design Lab II 2 hrs. Spring
PHIL 201 Crit. Thinking about Moral Problems 3 hrs.

Students must earn a minimum grade of C in UNIV 112 and 200; PHYS 207; all EGMN, ENGR, and MATH courses used to fulfill graduation requirements; and all courses used to fulfill engineering and professional elective requirements.

Please refer to the VCU Undergraduate Bulletin for the official list of required courses.

An engineering elective must meet all of these 4 criteria: 1) engineering course (CLSE, CMSC, EGMN, EGRB, EGRE, or ENGR); 2) ≥ 300 level; 3) ≥ 3 credits & 4) not otherwise required for the major. A professional elective must meet the same 4 criteria except the ACCT, ANAT, BIOC, BIOL, BIOS, BNFO, BUSN, CHEM, ECON, ENVs, FIRE, HSEP, INFO, INNO, INSC, LFSC, MATH, MGMT, MKTG, NANO, OPER, PHIS, PHYS, STAT, SCMA & VNTR rubrics are allowed.

Prerequisites for EGMN 402: Complete 2 from EGMN 300, 301, 302, 303, 315, 321, 335, 420, 421, 416 and 415.