

VCCS Course*	VCCS Credits	Virginia Tech Course	VT Credits	Description
<u>First Year:</u>				
CHM 111	4	CHEM 1035, 1045	4	General Chemistry w/Lab
EGR 121, 122	2, 3	ENGE 1215, 1216	4	Foundations of Engineering
ENG 111, 112	6	ENGL 1105, 1106	6	First-Year Writing
MTH 263, 264	8	MATH 1225, 1226	8	Calculus of a Single Variable
MTH 266	3	MATH 2114	3	Linear Algebra
PHY 241	4	PHYS 2305	4	Calculus-based Physics
**Electives to complete AS degree	optional		optional	
Total credits:	30		29	
<u>Second Year:</u>				
EGR 140 or 240	3	ESM 2104	3	Statics
EGR 246	3	ESM 2204	3	Mechanics of Deformable Bodies (Materials)
EGR 245	3	ESM 2304	3	Dynamics
MTH 267	3	MATH 2214	3	Differential Equations
MTH 265	4	MATH 2204	3	Multivariable Calculus
PHY 242	4	PHYS 2306	4	Calculus-based Physics
EGR 271	4	ECE2054	3	Applied Electrical Theory w/Lab
**Electives to complete AS degree	optional		optional	
Total credits:	24		22	

*Check with latest VCCS transfer guide (<https://transferguide.registrar.vt.edu/VCCS-Equivalencies.html>) to make sure course equivalencies have not changed

**Students completing VCCS AS degree do not need to complete Pathways general education elective requirements per matriculation agreement, but they do need to complete 64 credits at Virginia Tech

Note: Courses used to meet the foreign language entrance requirement (1 year of the same language at college level or 2 years of the same language in high school) do not count towards the credits required to graduate.