

Engineering

Associate in Science

This degree program is designed for the student preparing for transfer to a four-year program in Engineering. Students are urged to acquaint themselves with the requirements of the major department in the college or university in which transfer is contemplated and also to consult with the Counseling Center in planning their program and selecting electives.

In addition to the admission requirements established for the College, entry into the Engineering program requires satisfactory completion of the following high school units or equivalent as a minimum: 4 years of English, 3 years of mathematics (Algebra I, Algebra II, and Geometry), 1 year of laboratory science, and 1 year of social science. Students with deficiencies will require developmental studies and will not be able to complete the program within a two year window.



Central Virginia Community College

call (434) 832-7800

AA/EEO/ADA • VTDD (434) 832-7701



The curriculum requires a majority of the courses to be completed in areas of engineering, mathematics, and the physical sciences. It is recommended to students with a strong interest in mathematics and the sciences.

Engineering: — Degree Requirements

Course No.	Course Title	First Year	
		1st Sem.	2nd Sem.
ENG 111-112	College Composition I-II	3	3
	Social Science Electives ¹	3	3
MTH 173-174	Calculus with Analytic Geometry I-II	5	5
CHM 111-112	College Chemistry I-II	4	4
MTH 177	Introductory Linear Algebra ²	2	-
EGR 120	Introduction to Engineering	1	-
EGR 126	Computer Programming for Engineers	-	3
Total		18	18

Course No.	Course Title	Second Year	
		1st Sem.	2nd Sem.
MTH 277	Vector Calculus	4	-
EGR 140	Engineering Mechanics-Statics	3	-
	Humanities Electives ¹	6	-
SDV 100	Orientation	1	-
PHY 241-242	General University Physics I-II	4	4
HLT/PED	Health or Physical Education	-	1
MTH 279	Ordinary Differential Equations	-	4
EGR 245	Engineering Mechanics-Dynamics	-	3
EGR 246	Mechanics of Materials	-	3
EGR 248	Thermodynamics for Engineers	-	3
Total		18	18

Minimum credits required to graduate	72
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¹ For a list of approved courses, see Humanities Electives or Social Sciences Electives cards.

² Students intending to receive credit for Linear Algebra in the UVa. School of Engineering and Applied Science should take MTH 285.