

Engineering Technology

Mechanical/Industrial Specialization

Associate in Applied Science

The purpose of the Associate in Applied Science degree program in Engineering Technology is to prepare students for full-time employment as engineering specialists immediately upon completion of the program. Students successfully graduating from this program may find employment as machine design drafters, industrial inspectors, plant supervisors, or industrial maintenance supervisors.



The curriculum includes courses in engineering, drafting, computer aided drafting (CAD), computer programming, mathematics, and general education requirements. Instruction will include both the theoretical concepts and practical applications necessary for future success in the field of Engineering Technology. Cooperative Education is available in this curriculum. Students are advised to consult with their advisor while planning a program of study and to continue doing so on a regular, periodic basis during that program of study.

Central Virginia Community College

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Engineering Technology: Mechanical/Industrial Specialization— Degree Requirements

Course No.	Course Title	First Year		
		1st Sem.	2nd Sem.	Sum. Sem.
MTH 115-116	Technical Mathematics I-II	3	3	-
DRF 201	Computer Aided Drafting and Design I ¹	3	-	-
ECO 120	Survey of Economics	3	-	-
EGR 100	Engineering Technology Orientation	1	-	-
EGR 127	Introduction to Computer Programming	2	-	-
ENG 111	College Composition I	3	-	-
SDV 100	Orientation	1	-	-
DRF 112	Technical Drafting II ¹	-	3	-
EGR 135	Statics for Engineering Technology	-	3	-
HLT 100	First Aid and CPR ²	-	2	-
IND 113	Materials and Processes In Manufacturing I	-	2	-
PSY 120	Human Relations ³	-	3	-
EGR 136	Strength of Materials for Engineering Technology	-	-	3
Total		16	16	3

Course No.	Course Title	Second Year	
		1st Sem.	2nd Sem.
DRF 241	Solid Modeling	3	-
CIV 220	Structural Analysis	3	-
CIV 240	Fluid Mechanics and Hydraulics	3	-
ENV 170	Fundamentals of Energy Technology	2	-
MEC 133	Mechanics III-Dynamics for Engineering Technology	2	-
	Humanities Elective ⁴	3	-
DRF 212	Advanced Technical Drafting II	-	3
DRF 280	Design Capstone Project	-	3
ELE 118	Practical Electricity	-	2
ENG 131	Technical Report Writing I	-	3
MEC 161	Basic Fluid Mechanics-Hydraulics/Pneumatics	-	3
MEC 210	Machine Design	-	3
Total		16	17

Minimum credits required to graduate

68

¹ Students with credit by previous experience for DRF 201 should enroll in DRF 212 in the Spring Semester.

² Any two hours of HLT or PED will satisfy the HLT 100 requirement.

³ PSY 120 is recommended but any three credit hours in the social science disciplines may be substituted for PSY 120.

⁴ See course catalog for available courses.