

Commonwealth University

Electronics Engineering Technology Degree Checklist

Effective Fall 2023

Required ENGT Courses (42 credits)	Credits	Grade	Semester/Year
ENGT 101 Introduction to Engineering Technology	3		
ENGT 180 Computer Aided Design and Engineering Graphics	3		
ENGT 141 Circuit Analysis	4		
ENGT 231 Electrical Machines and Power Systems	4		
ENGT 241 Electronic Instrumentation and data Acquisition	3		
ENGT 300 Engineering Your Career	2		
ENGT 321 Manufacturing and Automation	3		
ENGT 331 Linear Signals and Systems	4		
ENGT 380 Cooperative Education in Industry	1		
ENGT 381 Engineering Applications in Industry	2		
ENGT 431 Industrial Process Control	3		
ENGT 441 Communication Systems	4		
ENGT 461 Radio-Frequency Effects and Measurements	3		
ENGT 491 Senior Design Project	3		

Required Physics and Math Courses (18 credits)	Credits	Grade	Semester/Year
PHYS 212 General Physics 2	4		
PHYS 315 Electronics	4		
PHYS 316 Digital Electronics	3		
PHYS 317 Computer Electronics	3		
MATH 170 Calculus 2	4		

(Major + Cognate) Courses: 60 credits

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Required General Education Courses (21 credits)	Credits	Grade	Semester/Year
MATH 160 Calculus 1 (Quantitative)	4		
PHYS 211 General Physics 1 (Natural World)	4		
CHEM 121 Chemistry for the Sciences 1 (Natural World)	4		
CMSC 115 Python Programming (Technologies)	3		
WRIT 103 Foundations in Composition (Writing)	3		
COMM 101 Public Speaking (Oral Communication)	3		

Free Elective Courses (12 credits)	Credits	Grade	Semester/Year
MATH 140 Precalculus (if needed)	3		

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General Education

Category	Credits	Course Taken (Required classes are listed)	Semester/Grade
First Year Seminar (U)	3		
Writing (W)	3	WRIT 103 Foundations in Composition	
Oral Communication (O)	3	COMM 101 Public Speaking	
History (H)	3		
Quantitative (Q)	4	MAT 160 Calculus 1	
Diversity (D)	3		
Global Perspectives (G)	3		
Diversity (D) or Global Perspectives (G) or Foreign Language (F) Course	3		
Ethical Reasoning (E)	3		
Citizenship (S) or Critical Reasoning (R)	3		
Natural World (N)	4	PHYS 211 General Physics 1	
Natural World (N)	4	CHEM 121 Chemistry for the Sciences 1	
Technologies (T)	3	CMSC 115 Python Programming	
Literature (L)	3		
Arts (A) or Creativity (C)	3		
Total General Education Credits	48		

Note: As part of their general education program, *Electronics Engineering Technology* students are required to take one course from Ethical Reasoning (E) and one course from Citizenship (S) or Critical Reasoning (R).

The Quantitative (Q) course must be MAT 160, the two Natural World (N) courses must be PHYS 211 and CHEM 121, and the Technologies (T) course must be CMSC 115.

Students need a minimum of 120 credits to graduate from Commonwealth University
