

Program Coordinator: Kevin Jensen
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Program Website: <https://bluegrass.kctcs.edu/education-training/program-finder/engineering-electronics-technology.aspx>
Student Name:
Student ID:
Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.

First Semester	Credit Hours	Term	Grade	Prerequisites	Notes
ELT 110 Circuits I	5			Math placement for MAT 126 or higher	
ELT 114 Circuits II	5			ELT 110 with grade of C or greater	
MAT 126 Technical Algebra and Trigonometry or higher level Quantitative Literacy course	3				
BRX 120 Basic Blueprint Reading OR CAD 100 Computer Aided Design OR CAD 103 CAD Fundamentals	3-4				
Total Semester Credit Hours	16-17				

Second Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
ELT 210 Devices I	4			ELT 110 with grade of C or greater	
Technical Elective	4				ELT 214 is strongly recommended
EET 270 Motor Controls I	2			ELT 110 with C or greater, Coreq: EET 271	
EET 271 Motor Controls Lab	2			ELT 110 with C or greater, Coreq: EET 270	
PHY 171 Applied Physics or Natural Sciences course	3-4				
Total Semester Credit Hours	15-16				

Third Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
ELT 120 Digital I	3				
EET 276 Programmable Logic Controllers	2			EET 270 with C or greater, Coreq: EET 277	
EET 277 Programmable Logic Controllers Lab	2			EET 270 with C or greater, Coreq: EET 276	
CIT 105 Introduction to Computers or CAD 100 Introduction to Computer Aided Design	3				
ENG 101 Writing I	3				
Social and Behavioral Sciences course	3				
Total Semester Credit Hours	16				

Fourth Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
ELT 260 Robotics and Industrial Automation	5				
*ELT 265 Applied Fluid Power	3				*See note on back.
ELT 289 Engineering and Electronics Tech Capstone	1			ELT 120 and 210	This is an online class.
Heritage or Humanities course	3				
Oral Communications course	3				
Total Semester Credit Hours	15				
Total Degree Credit Hours	62-64				

- Graduation Requirements:**
- 25% or more of Total Program Credit Hours must be earned at BCTC
 - Cumulative GPA must be 2.0 or higher

Advisor Name _____

Advisor Contact _____

Additional Information

Students must complete MAT 065 or 075 or demonstrate an equivalent placement level before enrolling in an ELT class.

General Education courses (math, natural sciences, writing, social and behavioral sciences, oral communications, heritage or humanities) can be taken in any order. It is recommended that math be taken in the first semester if possible.

CIT 105 or CAD 100 can be taken in any semester. BRX 120 or CAD 100 or CAD 103 can be taken in any semester.

Students who take CAD 100 instead of CIT 105 to fulfill the Digital Literacy requirement must take an additional 3 credit hours of Technical Electives instead of BRX 120 or CAD 103.

*If ELT 265 Applied Fluid Power is not available, FPX 100/101 Fluid Power and Lab may be substituted with the approval of the Engineering and Electronics Technology Program Coordinator.

Technical Electives can be any EET, ELT, IMT, CIT, ISM, CAD, ICT, MFG or other courses approved by the Program Coordinator. EET 270, 271, 276, and 277 are strongly recommended to meet 8 hours of Technical Electives due to the use of Programmable Logic Control in industry.

Embedded Credentials

Credential	Title	Requirements	Total Credit Hours
Certificate	Automation Technician	ELT 110, ELT 265, ELT 270, ELT 271, ELT 276, ELT 277	16
Certificate	Electronics Tester	ELT 110, ELT 114, ELT 120	13
Certificate	Industrial Electronics Technician I	ELT 110, ELT 114, ELT 120, ELT 276, ELT 277	17
Certificate	Maintenance Technician	BRX 120 or CAD 100 or CAD 103, ELT 110, ELT 114, ELT 265, EET 270, EET 271, EET 276, EET 277	24-25
Certificate	Robotics and Automation Technician	ELT 110, ELT 114, ELT 120, ELT 260, ELT 265, EET 270, EET 271, EET 276, EET 277	29

- Certificate Requirements:**
- 25% or more of Total Certificate Credit Hours must be earned at BCTC
 - Grade of C or higher in each course required for certificate