



ELECTRICAL ENGINEERING
ASSOCIATE OF SCIENCE

	CREDIT HOURS
GENERAL EDUCATION REQUIREMENTS	
COMMUNICATION	9
ENGL 1010: English Composition I	3
ENGL 1020: English Composition II	3
COMM 2025: Fundamentals of Communication or any approved speech/communication general education course	3
HUMANITIES & FINE ARTS (minimum 1 course in literature)	9
Any approved humanities or fine arts general education course	3
Any approved humanities or fine arts general education course	3
(literature) Any approved humanities literature general education course	3
SOCIAL/BEHAVIORAL SCIENCES	6
Any approved Social/Behavioral Sciences general education course*	3
Any approved Social/Behavioral Sciences general education course*	3
HISTORY*	6
Any approved History general education course	3
Any approved History general education course	3
NATURAL SCIENCES	8
PHYS 2110: Calculus-based Physics I	4
PHYS 2120: Calculus-based Physics II	4
MATHEMATICS	4
MATH 1910: Calculus I****	4
GENERAL EDUCATION TOTAL	42
AREA OF EMPHASIS REQUIREMENTS (Major)	
CHEM 1110: General Chemistry I	4
MATH 1920: Calculus II	4
MATH 2110: Calculus III	4
MATH 2010: Introduction to Linear Algebra**	3
MATH 2120: Differential Equations	3
Programming (C++)*** (CISP 1010 recommended whenever possible)	3 or 4
ENGR 2130: Circuits I (with lab)*****	4
FOREIGN LANGUAGE	0
ELECTIVES (unspecified)	
AREA OF EMPHASIS REQUIREMENTS & ELECTIVES TOTAL	25 or 26
DEGREE TOTAL	67+

NOTES:

*NOTE: Students transferring to U of Memphis or UTM should take Macroeconomics as one of the Social/Behavioral Science general education requirements.

NOTE: Courses in engineering technology do not fulfill any of the requirements for the Area of Emphasis in Electrical Engineering

NOTE: Although it is possible to complete the B.S. Degree in Electrical Engineering in four semesters after earning the associates degree, students typically need five or six semesters to complete the requirements.



NOTE: The Electrical Engineering TTP also fulfills the preparatory coursework for: (1) the BS in Mechatronics at MTSU; (2) Computer Engineering BS at UT-Knoxville; (3) Computer Engineering BS at TTU; (4) Electrical Engineering BS at TTU with a Concentration in Mechatronics

***NOTE: Linear algebra should be completed prior to enrolling in Circuits I*

****NOTE: UTK and TTU require 4 hours of programming.*

*****NOTE: U of Memphis also requires students to complete MATH 2050 Calculus-Based Probability and Statistics*

******NOTE: Students transferring to TSU's BSEE program are encouraged to complete ENGR 1020, Engr 1151, and circuits II and Digital Logic Design courses during the summer prior to transferring to the University.*

NOTE: Students should refer to the desired transfer institution to verify the requirements of the major and concentration requirements of the major and concentration