



ELECTRICAL ENGINEERING

ASSOCIATE OF SCIENCE

Program Requirements

SEMESTER & COURSES	CREDIT HOURS	SEMESTER & COURSES	CREDIT HOURS
<i>Semester 1 (Fall)</i>		<i>Semester 2 (Spring)</i>	
ENGL 1010: English Composition I	3	ENGL 1020: English Composition II	3
CISP 1010 or Programming***	3 or 4	PHYS 2110: Calculus-based Physics I	4
MATH 1910: Calculus I****	4	MATH 1920: Calculus II	4
CHEM 1110: General Chemistry I	4	Humanities/Fine Arts	3
History	3	History	3
Subtotal Semester 1	17	Subtotal Semester 2	17
<i>Semester 3 (Fall)</i>		<i>Semester 4 (Spring)</i>	
COMM 2025: Fundamentals of Communication or any approved speech/communication general education course	3	Social/Behavioral Science*	3
Social/Behavioral Science*	3	ENGR 2130: Circuits I w/lab*****	4
PHYS 2120: Calculus-based Physics II	4	Humanities/Fine Arts	3
MATH 2010: Introduction to Linear Algebra**	3	MATH 2120: Differential Equations	3
MATH 2110: Calculus III	4	Literature	3
Subtotal Semester 3	17	Subtotal Semester 4	16
		Total Credit Hours	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 TPP 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