



## ELECTRICAL ENGINEERING

### ASSOCIATE OF SCIENCE

#### Program Requirements

<b>GENERAL EDUCATION REQUIREMENTS</b>	<b>CREDIT HOURS</b>
<b>COMMUNICATION</b>	<b>9</b>
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
<b>HUMANITIES &amp; FINE ARTS (minimum 1 course in literature)</b>	<b>9</b>
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
<b>SOCIAL/BEHAVIORAL SCIENCES</b>	<b>6</b>
Any approved Social/Behavioral Sciences general education course <sup>1</sup>	3
Any approved Social/Behavioral Sciences general education course <sup>1</sup>	3
<b>HISTORY</b>	<b>6</b>
Any approved History general education course	3
Any approved History general education course	3
<b>NATURAL SCIENCES</b>	<b>8</b>
PHYS 2110: Calculus-based Physics I	4
PHYS 2120: Calculus-based Physics II	4
<b>MATHEMATICS</b>	<b>4</b>
MATH 1910: Calculus I <sup>2</sup>	4
<b>GENERAL EDUCATION TOTAL</b>	<b>42</b>
<b>AREA OF EMPHASIS REQUIREMENTS (Major)</b>	
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) <sup>2</sup>	3 or 4
ENGR 2130: Circuits I (with lab) <sup>3</sup>	4
<b>AREA OF EMPHASIS REQUIREMENTS &amp; ELECTIVES TOTAL</b>	<b>25 or 26</b>
<b>DEGREE TOTAL</b>	<b>67+</b>



**NOTES:**

<sup>1</sup> Students transferring to UoM or UTM should take ECON 2100: Macroeconomics as one of the Social/Behavioral Science general education requirements.

<sup>2</sup> Student who intend to transfer to UTK or TTU are required to take 4 hours of programming. As such, a three-credit hour computer programming course will not fulfill the programming requirements.

<sup>3</sup> 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 associate's 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 UTK; (3) Computer Engineering BS at TTU; (4) Electrical Engineering BS at TTU with a concentration in Mechatronics, (5) Electrical Engineering BS at TTU with a concentration in Vehicle Engineering, (6) Engineering Physics BSE at APSU.

