

**ASSOCIATE IN SCIENCE FOR ELECTRICAL ENGINEERING**

Completion of the following curriculum will satisfy both the requirements for an Associate in Science at KCTCS as well as the requirements for the University of Kentucky's bachelor's degree in Electrical Engineering.

Engineering Standing upon transfer is available to students who maintain an overall and pre-major GPA of 2.5. Pre-major courses considered in the standing for Electrical Engineering include: MA 113 (or equivalent), MA 114 (or equivalent), MA 213 (or equivalent), PHY 231, CHE 105 (or equivalent), CIS/WRD 110 (or equivalent).

KCTCS students planning to transfer to the University of Kentucky should work closely with the UK Transfer Advisor each semester to ensure both KCTCS and UK requirements are met.

<b>1<sup>st</sup> Semester</b>	
ENG 101: Writing I (3)	
CHE 170: General College Chemistry I (4)	
MA 113, MAT 174, or MAT 175: Calculus I (4-5)	
CS 115 or CIT 144 or CIT 149 (3)	
<b>Semester Hours</b>	<b>14-15</b>

<b>2<sup>nd</sup> Semester</b>	
ENG 102: Writing II (3)	
MA 114, MAT 184, or MAT 185: Calculus II (4-5)	
PHY 231 + 241: University Physics I (5)	
*Heritage course (3)	
<b>Semester Hours</b>	<b>15-16</b>

<b>First Summer Option</b>	
<b>Semester Hours</b>	

<b>3<sup>rd</sup> Semester</b>	
PHY 232 + 242: University Physics II (5)	
MA 213, MAT 213, or MAT 275: Calculus III (4)	
*Social and Behavioral Science course (3)	
CS 215 (4)	
<b>Semester Hours</b>	<b>16-17</b>

<b>4<sup>th</sup> Semester</b>	
MA 214, MAT 214, or MAT 285: Calculus IV/Differential Equations (3)	
*Social and Behavioral Science course (3)	
*Humanities course (3)	
Oral Communication course (3)	
+Elective course (3)	
<b>Semester Hours</b>	<b>15-16</b>

Total Credit Hours: 60-63

**Notes:** \*One course must satisfy the Cultural Studies requirement.

The student must test out of the computer literacy requirement so that CS 115, CIT 144, or 149 can be used to satisfy the Bachelor's Degree requirement.



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Second Summer Option
Semester Hours

<b>5<sup>th</sup> Semester</b>	
EGR 215 (3)	
Engineering/Science Elective (3)	
STA 381 or STA/MA 302 (3)	
EE 211 (4)	
EE 282 (4)	
<b>Semester Hours</b>	<b>17</b>

<b>6<sup>th</sup> Semester</b>	
EE 223 (4)	
EE 287 (4)	
EE 468G (4)	
Supportive Elective (3)	
<b>Semester Hours</b>	<b>15</b>

Third Summer Option
Semester Hours

<b>7<sup>th</sup> Semester</b>	
EE 415G (3)	
EE 421G (3)	
EE 461G (3)	
Technical Elective (3)	
EE Lab (2)	
<b>Semester Hours</b>	<b>14</b>

<b>8<sup>th</sup> Semester</b>	
EE 490 (3)	
EE Technical Elective (3)	
EE Technical Elective (3)	
Technical Elective (3)	
Math/Statistics Elective (3)	
<b>Semester Hours</b>	<b>15</b>

<b>9<sup>th</sup> Semester</b>	
EE 491 (3)	
EE Lab (2)	
EE Technical Elective (3)	
EE Technical Elective (3)	
Engineering/Science Elective (3)	
<b>Semester Hours</b>	<b>14</b>

<b>10<sup>th</sup> Semester</b>	
<b>Semester Hours</b>	

Total Credit Hours: 75