



# BACHELOR OF Science IN ELECTRICAL ENGINEERING

*KCTCS transfer plan*

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## ***KCTCS AS (Pre-Engineering Curriculum)***

<b>Course</b>	<b>Course Title</b>	<b>Semester Hours</b>
<b>ENG101</b>	Intro to College Writing I	3
<b>ENG102</b>	Writing in the Disciplines II	3
<b>Oral Communications</b>	Choose <u>one</u> course from this category	3
<b>Heritage</b>	Choose <u>one</u> course from this category	3
<b>Humanities</b>	Choose <u>one</u> course from this category	3
<b>Social and Behavioral Science</b>	Choose <u>one</u> courses from this category other than SOC	3
<b>ECO 202</b>	Principals of Macroeconomics	3
<b>CHE 170</b>	General College Chemistry I	4
<b>CHE 175</b>	General College Chemistry Lab I	1
<b>MAT 175</b>	Calculus I	5
<b>MAT 185</b>	Calculus II	5
<b>MAT 275</b>	Calculus III	4
<b>MAT 285</b>	Differential Equations	3

<b>PHY 231</b>	General University Physics I	4
<b>PHY 232</b>	General University Physics II	4
<b>PHY 241</b>	General University Physics I Lab	1
<b>PHY 242</b>	General University Physics II Lab	1
<b>ELT 103</b>	Intro to Engineering	3
<b>ELT 120 or EM 221</b>	Statics or Digital 1	3
<b>EE 210</b>	Circuits and Networks	3.5
<b>FYE 110 or Equivalent</b>		3
	<b>TOTAL</b>	65.5

***WKU Classes Required for this Major***

<b>Core Components</b>	EE 180 or EM 222, EE 200, EE 211, EE 300, EE 345, EE 380, EE 420, EE 431, EE 460, EE 473 or PHYS 440, ENGR 490, and ENGR 491	35.5
<b>EE Technical Electives I</b>	Select from: EE 410, 411, 436, 443, 445, 447, 448, 450, 451, 461, 470, 475, 477, 479, 480, 490, 499, CS 315, CS 360, ENGR 360, PHYS 318, PHYS 445	12
<b>EE Technical Electives II</b>	Select from: CS 339, EM 222 or PHYS 350, EM 303, ENGR 400, MATH 305, MATH 310, ME 220 or PHYS 330, ME 240, ME 330 or CE 342, MFGE 343, PHYS 316, PHYS 450	3
<b>Additional Required Courses</b>	CS 180, CS 290, STAT 301, and MATH 307 or 370	14
	<b>TOTAL</b>	64.5

## TOTAL PROGRAM HOURS

130

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**Program Notes:** Barring unexpected issues, it is anticipated that students entering WKU in a fall semester with a KCTCS Associates in Science (Pre-engineering, electrical Engineering track) can reasonably plan to complete a BSEE within two additional years (Based on prerequisite flow, typical offerings, and preferred course order).

WKU requires a "C" or better in EE 210, ENG 101, Oral Communications, MAT 175, MAT 185, PHYS 231, PHYS 232

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Last updated 7-24-24