



BACHELOR OF Science IN ELECTRICAL ENGINEERING

KCTCS transfer plan

KCTCS AS (Pre-Engineering Curriculum)

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

PHY 231	General University Physics I	4
PHY 232	General University Physics II	4
PHY 241	General University Physics I Lab	1
PHY 242	General University Physics II Lab	1
ELT 103	Intro to Engineering	3
ELT 120 or EM 221 or CS 215	Digital 1, Statics, or Intro to Program Design	3-4
EE 210	Circuits and Networks	3.5
FYE 110 or Equivalent		3
	TOTAL	65.5-66.5

WKU Classes Required for this Major

Core Components	EE 180, 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
Technical Electives I	Select from: EE 410, 411, 432, 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
Technical Electives II	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
Additional Required Courses	CS 180, CS 290, STAT 301, and MATH 307 or 370	14
	TOTAL	64.5

TOTAL PROGRAM HOURS

130

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

Last updated 7-27-26