123 credit hours total

Electrical Engineering

KSC-2

FALL YEAR 1 SPRING		FALL YEA	FALL YEAR 2 SPRING		FALL YEA	R 3 SPRING	FALL YEAR 4 SPRING	
*MATH 220 (4)	*MATH 221 (4)	MATH 340 (4)	MATH 222 (4)		ECE 431 (3)	ECE 512 (3)	ECE 590 (3)	ECE 591 (2)
Analytic Geometry and Calculus I	Analytic Geometry and Calculus II	Elementary Differential Equations	Analytic Geometry and Calculus III		Microcontrollers	Linear Systems	Senior Design Experience I	Senior Design Experience II
KSC-3	PR: MATH 220 ≥C	PR: MATH 221 ≥ C	PR: MATH 221 ≥ C		PR: ECE 241, CIS 209	PR: ECE 410 or 519, ECE 540, MATH 340	PR: ECE 525, 540	PR: ECE 590
CHM 210 (4)	ECE 241 (3)	*PHYS 213 (5)	PHYS 214 (5)		ECE 525 (3)	ECE 526 (3)	ECE 530 (3)	▲Elective (3)
Chemistry I	Introduction to Electrical and Computer Engineering	Engineering Physics I	Engineering Physics II		Electronics I	Electronics II	Control Systems Design	Technical
		KSC-4 PR/CO: MATH 220	PR: PHYS 213 PR/CO: MATH 221	Р	R: ECE 410 or ECE 519	PR: ECE 511, 525	PR: MATH 340, ECE 512	
DEN 160 (1)	CIS 209 (3)	STAT 510 (3)	ECE 441 (3)		ECE 540 (3)	ECE 502 (2)	▲Elective (3)	▲Elective (3)
College of Engineering Orientation	Computer Programming for Engineers	Introductory Probability and Statistics I	Design of Digital Systems	/ Com	Applied Scientific puting for Engineers	Electronics Laboratory	Technical	Technical
	PR: MATH 220 ≥C	PR: MATH 221	PR: ECE 241	Р	R: STAT 510 and CIS 209 or CIS 200	PR: ECE 511, PR/CO: ECE 526		
DEN 161 (1)	*Elective (3)	ECE 410 (4)	ECE 511 (4)		ECE 557 (4)	ECE 581 (3)	▲Elective (3)	* Elective (3)
Engineering Problem Solving	Social and Behavioral Sciences	Circuit Theory I	Circuit Theory II		Electromagnetic Theory I	Energy Conversion I	Technical	Social and Behavioral Sciences
PR/CO: MATH 150	KSC-5	PR: MATH 221	PR: MATH 340, ECE 410	PI	R: ECE 410, MATH 222, PHYS 214	PR: ECE 410 or ECE 519		KSC-5
*ENGL 100 (3)	*ENGL 200 (3)			*	Elective (3)	*Elective (3)	<pre>* Elective (3)</pre>	* Elective (3)
Expository Writing I	Expository Writing II			Ar	ts and Humanities	Institutional	Arts and Humanities	Institutional
KSC-1	KSC-1 PR: ENGL 100				KSC-6	KSC-7	KSC-6	KSC-7
*COMM 106 (3)								
Public Speaking								

(16 credit hours) (14 credit hours) (15 credit hours) (14 credit hours) KEY Prerequisite for another course PR = Prerequisite requirement PR/CO = Prerequisite or concurrent requirement Class applies as specialization KANSAS STATE Carl R. Ice ▲ = See department approved electives ● = Only offered in the semester shown 💥 🛛 = K-State Core (KSC) course College of Engineering UNIVERSITY

Flowchart is for advising purposes only. Students are responsible for complying with University Catalog requirements.

Electrical Engineering Curriculum Notes

Students pursuing a B.S. in electrical engineering degree are required to complete one of the subplan options. These options include bioengineering, electronics and communications, and power systems.

For the good and benefit of the student and their future employer, the ECE department enforces a C-prerequisite policy for all courses listed by number in the curriculum and for any in-major technical elective course applied toward the degree. A grade of C or better must be earned in all prerequisites to such a course before enrolling in that course.

Technical Electives

Technical electives must be selected to complete one of the option areas.

See list of option areas and required electives at

ece.k-state.edu/academics/undergraduate/electrical-engineering/specialization/.

No more than 12 credit hours of courses with prefix ECE may be transferred to Kansas State University for credit toward a bachelor's degree in either electrical engineering or computer engineering. Further, those courses selected for transfer credit must be equivalent to courses in the list below and must be such that the prerequisites for the listed course are also satisfied. Any courses transferred must be taken from ABET accredited programs: ECE 210, ECE 241, ECE 410, ECE 525, ECE 557, ECE 581.

K-State Core

The K-State Core (KSC) is the university's version of the systemwide general education framework established by the Kansas Board of Regents.

KSC requirement 1 – English (6 hours)
KSC requirement 2 – Communications (3 hours)
KSC requirement 3 – Math and Statistics (3 hours)
KSC requirement 4 – Natural and Physical Sciences (4-5 hours)
KSC requirement 5* – Social and Behavioral Sciences (6 hours)
KSC requirement 6* – Arts and Humanities (6 hours)
KSC requirement 7 – Institutional Electives (6 hours)

To view course lists for each requirement, visit k-state.edu/provost/kstate-core.

*Requires two courses from two different subject areas.

 KANSAS STATE
 Carl R. Ice

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