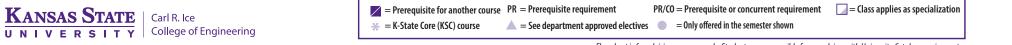
128 credit hours total

Biomedical Engineering

KANSAS STATE

FALL YEAR 1 SPRING		FALL YEAR 2 SPRING		FALL YEAR 3 SPRING		FALL YEA	FALL YEAR 4 SPRING	
*MATH 220 (4)	*MATH 221 (4)	MATH 340 (4)	MATH 222 (4)	•BME 430 (3)	ECE 512 (3)	•BME 590 (3)	•BME 591 (2)	
Analytic Geometry and Calculus I	Analytic Geometry and Calculus II	Elementary Differential Equations	Analytic Geometry and Calculus III	Biomaterials	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: BIOL 198, CHM 230	PR: ECE 410 or 519, MATH 340, ECE 540	PR: BME 491, ECE 540, and ENGL 200	PR: BME 590	
CHM 210 (4)	CHM 230 (4)	•BME 390 (2)	BIOL 198 (4)	BIOL 441 (4)	BIOL 442 (4)	•BME 575 (3)	•BME 674 (3)	
Chemistry I	Chemistry II	Skill Development Experience	Principles of Biology	Human Body I PR: BIOL 198 > = B	Human Body II	Clinical Systems Engineering	Medical Imaging	
	PR: CHM 210	PR: CHM 210, BME 200		PR: CHM 210 \ge B PR: CHM 210 \ge B PR: Cumulative GPA \ge 3.0 PR: S0 standing	PR: BIOL 441 ≥C	PR: ECE 540	PR: ECE 512	
DEN 160 (1)	*PHYS 213 (5)	*PHYS 214 (5)	CHM 531 (3)	ECE 540 (3)	•BME 490 (2)	•ECE 772 (2)	* Elective (3)	
College of Engineering Orientation	Engineering Physics I	Engineering Physics II	Organic Chemistry I	Applied Scientific Computing for Engineers	Undergraduate BME Design Experience	Theory and Techniques of Bioinstrumentation	Social and Behavioral Sciences	
	KSC-4 PR/CO: MATH 220	PR: PHYS 213 PR/CO: MATH 221	PR: CHM 230 or CHM 250	PR: STAT 510 and CIS 209 or CIS 200	PR: PHYS 214, BME 200 PR/CO: BIOL 441 or KIN 360	PR/C0: ECE 773	KSC-5	
DEN 161 (1)	•BME 200 (3)	▲Elective (3)	ECE 519 (3)	* Elective (3)	•BME 470 (3)	•ECE 773 (1)	<pre>* Elective (3)</pre>	
Engineering Problem Solving	Introduction to Biomedical Engineering	Technical	Electric Circuits for Engineers	Social and Behavioral Sciences	Biomedical Device Components	Bioinstrumentation Design Laboratory	Arts and Humanities	
PR/CO: MATH 150			PR: PHYS 214	KSC-5	PR: ECE 519	PR: ECE 502, PR/CO: ECE 772	KSC-6	
*ENGL 100 (3)		▲Elective (3)	ME 212 (2)	*ENGL 200 (3)	▲Elective (3)	▲Elective (3)	<pre>* Elective (3)</pre>	
Expository Writing I		Technical	Engineering Graphics	Expository Writing II	Technical	Technical	Arts and Humanities	
KSC-1			PR/CO: MATH 205 or 220	KSC-1 PR: ENGL 100			KSC-6	
*COMM 106 (3)						* Elective (3)	* Elective (3)	
Public Speaking						Institutional	Institutional	
KSC-2						KSC-7	KSC-7	
(16 credit hours)	(16 credit hours)	(17 credit hours)	(16 credit hours)	(16 credit hours)	(15 credit hours)	(15 credit hours)	(17 credit hours)	

KEY



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

Biomedical Engineering Curriculum Notes

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

Emphasis electives must come from lists of approved courses.

No more than 12 credit hours of courses in electrical engineering, computer engineering, or biomedical engineering may be transferred to Kansas State University for credit toward a bachelor's degree in biomedical 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 241, ECE 512, ECE 519, ECE 540, ECE 772, ECE 773, BME 200, BME 390, BME 430, BME 470, BME 490, BME 491, BME 575, BME 590, BME 591, BME 674.

Students who participate in exchange programs or transfer in from outside the United States may request waivers of this policy. Waivers must be obtained in advance of the exchange semester.

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

 U N I V E R S I T Y
 College of Engineering