

Butler Community College

Transfer Program to University of Kansas

B.S. Mechanical Engineering

Number to call at KU for advising: (785) 864-3181

Website: <http://www.me.engr.ku.edu/>

- Timely completion of prerequisite courses is imperative due to tight sequencing of major courses. Consult KU catalog and seek KU advising early.
- A total of 128 credit hours is required for the B.S. in Mechanical Engineering. The B.S. in Mechanical Engineering is an ABET accredited program. A concentration in Biomechanical is available.
- The last 30 hours of course work must be completed at KU.
- Transfer students will have their applications to the School of Engineering evaluated on a case-by-case basis and must have a minimum GPA of 2.5 to be considered. Admission is selective. Meeting minimum requirements does not guarantee admission.
- Either an ACT Math score of 28 or higher or proof of proficiency in college calculus (grade of “C” or higher) is required for admission.
- The School of Engineering recommends that students apply for transfer admission to KU by May 1 for summer and fall; December 1 for spring.
- Pass/Fail policy: only accepted for KU Core GE 2.1 Written Communication, GE 2.2 Oral Communication, GE 3H Humanities, GE 3S Social Sciences, AE 4.1 Human Diversity, AE 4.2 Global Awareness, and AE 5 Social & Ethical Responsibility. If an Engineering department recommends that certain course work be used to fulfill any of these requirements, those courses must be taken for an “A”-”F” grade.

Requirements:

KU Course Requirements

Butler Equivalents

ENGLISH (2 courses)					<u>Core</u>
ENGL 101 Composition	3		ENGL 121 Composition	3	GE21
ENGL 102 Critical Reading and Writing	3		ENGL 122 Composition	3	GE21

MATHEMATICS					<u>Core</u>
MATH 125 Calculus	4		MA 151 Calculus & Analytic Geometry	5	GE12
MATH 126 Calculus 2	4		MA 152 Calculus & Analytic Geometry 2	5	
MATH 127 Calculus 3	4		MA 253 Calculus & Analytic Geometry 3	3	
MATH S365 Elementary Statistics	3		No equivalent		GE12
MATH 290 Elementary Linear Algebra	2		No equivalent		
MATH 220 Differential Equations	3		No equivalent		

NATURAL SCIENCES					<u>Core</u>
CHEM 130 Chemistry	5		CH 110 College Chemistry	5	GE3N, GE12
PHSX 211 & 216 Engineering Physics	5		PH 251 Physics I	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PH 252 Physics II	5	GE3N

ECONOMICS- Choose one					<u>Core</u>
ECON 142 Princ of Microeconomics	3		EC 200 Principles of Microeconomics	3	GE3S
ECON 144 Princ of Macroeconomics	3		EC 201 Principles of Macroeconomics	3	GE3S

COMMUNICATION					<u>Core</u>
COMS 130 Public Speaking	3		SP 100 Public Speaking	3	GE22

ETHICS					<u>Core</u>
PHIL 160 Intro to Ethics	3		PL 291 Ethics	3	AE51, GE11, GE3H

Biomedical Subplan additional course:

Choose One:				
BIOL 150 Prn Molecular/Cellular	5		No equivalent	GE3N
BIOL 152 Princ of Organismal Biology	5		No equivalent	GE3N
BIOL 240 Intro to Anatomy	3		BI 226 Human Anatomy (must take BI 226 AND 227)	4
BIOL 246 Intro of Physiology	3		BI 227 Physiology (must take BI 226 AND 227)	4

KU Core Curriculum (additional requirements not covered by degree requirements)

Additional courses that satisfy the KU Core are continuously updated and available at <http://kucore.ku.edu/courses>.

KU Course Requirements**Butler Equivalents**

Goal 1: Critical Thinking and Quantitative Literacy (1 Unit from each outcome)				
Outcome 1			GE11	
ENGL 210 Intro to Poetry	3		LT 204 Intro to Poetry	3
PHIL 140 Intro to Philosophy	3		PL 290 Philosophy	3
PHIL 148 Reason and Argument	3		PL 101 Intro to Logic	3
PHIL 160 Ethics	3		PL 291 Ethics	3
BLAW S301 Legal Aspects of Business	3		BA 115 Business	3
PHSX 114 College Physics	4		PH 143 General Physics	5
PHSX 211/216 General Physics I	4		PH 251 Physics	5
SOC 104 Elements of Sociology	3		BS 105 Sociology	3
SOC 160 Social Problems and American Values	3		BS 110 Contemporary Social Problems	3

Goal 3: Breadth of Knowledge (3 Units) -one from each category				
Arts & Humanities			GE3H	
ENGL 210 Intro to Poetry	3		LT 204 Intro to Poetry	3
REL 171 Religion in American Society	3		RG 210 World Religions	3
			LT 205 Intro to the Short Story	3
			LT 211 British Literature	3
			LT 212 British Literature 2	3
			LT 215 American Literature	3
			LT 216 American Literature 2	3
			LT 218 Shakespeare	3
ART 101 Drawing I	3		AR 141 Drawing and Composition	3
			AR 100 Art Appreciation	3
HIST 128 History of the US through the Civil War	3		HS 131 U.S. History	3
HIST 129 History of the US after the Civil War	3		HS 132 U.S. History 2	3
			HS 201 History of World Civilization	3
			HS 202 History of World Civilization 2	3
			RG 190 New Testament	3
			RG 191 Old Testament	3
			RG 210 Comparative Religions	3
PHIL 140 Intro to Philosophy	3		PL 290 Philosophy	3
PHIL 148 Reason and Argument	3		PL 101 Intro to Logic	3
PHIL 160 Ethics	3		PL 291 Ethics	3
THR 100 Intro to the Theater	3		TA 206 Intro to Theater Art	3
THR 106 Intro to Acting	3		TA 110 Acting	3
			TA 120 Film Appreciation: American Cinema	3
HSES 244 Intro PE and Sports Science	3		PE 120 Intro to Physical Education	3
PHMD 101 Fund of Photography	3		MC 100 Photography I	3

Goal 4: Culture and Diversity (1 Unit from each outcome)				
Outcome 1			AE41	
SOC 104 Elements of Sociology	3		BS 105 Sociology	3
SOC 160 Social Problems and American Values	3		BS 110 Contemporary Social Problems	3

Outcome 2		AE42	
POLS 170 Intro to International Politics	3	PO 201 International Relations	3
REL 171 Religion in American Society	3	RG 210 World Religions	3
		RG 210 Comparative Religion	3
SPAN 212 Intermediate Spanish	3	FL 201 Intermediate Spanish	3
GERM 104 Elementary German I	4	FL 117 Intro to German 2	3

- In order to graduate in four years, a student must transfer to KU after one year
- Pass/Fail Policy. Only courses used to fulfill English, Humanities, and Social Science requirements will be accepted with a "P" grade
- *PHSX 211 satisfies the PHSX 210 requirement for Engineering at KU
- "S" before a number (Ex. MATH S365) indicates the course will be satisfied but will not count toward the number of Junior/Senior (upper-level) hours required for graduation
- The requirements listed above are subject to annual change
- A maximum of 64 hours of community college course work can be applied toward a KU degree
- Courses with a grade of D or below do not transfer