

Butler Community College
Transfer Program to University of Kansas
B.S. in Chemical & Petroleum Engineering
(Subplans of Environmental, Biomedical, Petroleum, Pre-Med)

Number to call at KU for advising: (785) 864-4965

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

Timely completion of prerequisites is imperative due to tight sequencing of major courses. Consult the KU catalog and seek KU advising early.

Transfer students must have at least a 2.5 GPA and proof of competency in Calculus.

Requirements (all students):

Chemical Engineering (including ALL subplans):

KU Course Requirements

Butler Equivalents

ENGLISH (2 courses)					Core
ENGL 101 Composition	3		EG 100 or 101 Composition	3	GE21
ENGL 102 Critical Reading and Writing	3		EG 102 Composition	3	GE21

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

NATURAL SCIENCES					Core
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
CHEM 130 Chemistry	5		CH 110 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CH 115 College Chemistry 2	5	GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		CH 240 Organic Chemistry 1	5	

Petroleum Engineering:

KU Course Requirements

Butler Equivalents

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

NATURAL SCIENCES					Core
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
CHEM 130 Chemistry	5		CH 110 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CH 115 College Chemistry 2	5	GE12, GE3N
GEOL 101 & 103 How the World Works	3		PS 102 Physical Geology	5	GE3N

COMMUNICATION					Core
COMS 130 Public Speaking	3		SP 100 Public Speaking	3	GE22

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 2: Communication (3 Units) -two from outcome 1 and one from outcome 2			
Outcome 1 (not needed for Chemical)		GE21	
ENGL 101 Composition	3	EG 101 English Composition	3
ENGL 101 Composition	3	EG 100 English Composition with Review	5
ENGL 102 Critical Reading and Writing	3	EG 102 English Composition 2	3
ENGL 210 Intro to Poetry	3	LT 204 Intro to Poetry	3
Outcome 2 (not needed for Petroleum)		GE22	
COMS 130 Speaker-Audience Communication	3	SP 100 Public Speaking	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
Social Sciences		GE3S	
EPSY S305 Development/Learning of the Child	3	BS 270 Child Psychology	3
METL 211 Intro to Jewelry	3	AR 118 Jewelry Design	3
COMS 244 Intr Personal Comm	3	SP 102 Interpersonal Communication	3
ECON 142 Princ of Microeconomics	3	EC 200 Principles of Microeconomics	3
ECON 144 Princ of Macroeconomics	3	EC 201 Principles of Macroeconomics	3
POLS 110 Intro to US Politics	3	PO 141 American Federal Government	3
POLS 170 Intro to International Politics	3	PO 201 International Relations	3
PSYC 104 General Psychology	3	BS 160 General Psychology	3
SOC 104 Elements of Sociology	3	BS 105 Sociology	3
ANTH 100 General Anthropology	3	BS 106 Intro to Anthropology	3
		BS 260 Developmental Psychology	3
BLAW S301 Legal Aspects of Business		BA 115 Business Law	3
JOUR 101 Media and Society	3	MC 161 Intro to Mass Communication	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