

# Kansas City Kansas 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

#### KCKCC Equivalents

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

MATHEMATICS					<u>Core</u>
MATH 125 Calculus	4		MA 122 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MA 123 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		MA 224 Calculus and Analytical Geometry 3	5	
MATH 220 Differential Equations	3		MATH 227 Differential Equations	3	
MATH 290 Elementary Linear Algebra	2		No equivalent		

NATURAL SCIENCES					<u>Core</u>
PHSX 211 & 216 Engineering Physics	5		NASC 245 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		NASC 246 Engineering Physics	5	GE3N
CHEM 130 Chemistry	5		CHEM 111 College Chm with Lab	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHEM 112 College Chm with Lab	5	GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		CHEM 211 & 213 Organic Chemistry 1	5	

#### Petroleum Engineering:

#### KU Course Requirements

#### KCKCC Equivalents

MATHEMATICS					<u>Core</u>
MATH 125 Calculus	4		MA 122 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MA 123 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		MA 224 Calculus and Analytical Geometry 3	5	
MATH 220 Differential Equations	3		MATH 227 Differential Equations	3	
MATH 290 Elementary Linear Algebra	2		No equivalent		

NATURAL SCIENCES					<u>Core</u>
PHSX 211 & 216 Engineering Physics	5		NASC 245 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		NASC 246 Engineering Physics	5	GE3N
CHEM 130 Chemistry	5		CHEM 111 College Chm with Lab	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHEM 112 College Chm with Lab	5	GE12, GE3N
GEOL 101 & 103 How the World Works	3		NASC 185 & 186 Physical Geology	5	GE3N

COMMUNICATION					<u>Core</u>
COMS 130 Public Speaking	3		SPCH 151 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**

**KCKCC Equivalents**

<b>Goal 2: Communication (3 Units) -two from outcome 1 and one from outcome 2</b>			
<b>Outcome 1 (not needed for Chemical)</b>		<b>GE21</b>	
ENGL 101 Composition	3	ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3	ENGL 102 Composition 2	3
ENGL 210 Intro to Poetry	3	ENGL 108 Intro to Poetry	3
ENGL 209 Intro to Fiction	3	ENGL 109 Intro to Fiction	3
ENGL 211 Intro to Drama	3	ENGL 212 Drama As Literature	3
<b>Outcome 2 (not needed for Petroleum)</b>		<b>GE22</b>	
COMS 130 Speaker-Audience Communication	3	SPCH 151 Public Speaking	3

<b>Goal 3: Breadth of Knowledge (3 Units) -one from each category</b>			
<b>Arts &amp; Humanities</b>		<b>GE3H</b>	
ANTH 110 Intro to Archaeology	3	ANTH 105 Archaeology	3
CLSX 148 Greek and Roman Mythology	3	ENGL 135 World Mythology	3
		ENGL 105 Early World Literature	3
		ENGL 106 Modern World Literature	3
ENGL 210 Intro to Poetry	3	ENGL 108 Intro to Poetry	3
ENGL 209 Intro to Fiction	3	ENGL 109 Intro to Fiction	3
		ENGL 132 Science Fiction	3
		ENGL 221 Latino Literature and Culture	3
		ENGL 133 Women in Literature	3
		ENGL 136 Short Story	3
		ENGL 137 Bible As Lit: Old Testament	3
		ENGL 210 Early American Literature	3
		ENGL 211 Modern American Literature	3
ENGL 211 Intro to Drama	3	ENGL 212 Drama As Literature	3
		ENGL 214 African-American Literature	3
		ENGL 217 Major English Writers	3
		ENGL 218 Major English Writers 2	3
		ENGL 220 Native American Literature	3
		HIST 108 Religion in America	3
		HIST 107 Modern Europe	3
		HUMN 101 Intro To Humanities	3
		HUMN 102 Intro To Humanities 2	3
		HUMN 200 Foundtns Of Film & Theatre	3
		HIST 107 Intro to Modern Europe	3
		THTR 112 Dance History	3
ART 101 Drawing	3	FNAR 111 Drawing	3
REL 171 Religion in American Society	3	HIST 108 Religion in America	3
REL 104 Intro to Religious Studies	3	HUMN 207 Comparative Wrld Religions	3
HIST 121 Modern Latin America	3	HIST 112 Modern Latin America	3
PHIL 140 Intro to Philosophy	3	PHIL 103 Intro to Philosophy	3
THR 100 Intro to Theatre	3	THTR 101 Theatre Appreciation	3
THR 106 Intro to Acting	3	THTR 105 Introduction to Acting	3
		THTR 115 Acting I	3
HA 150 Western Art History	3	FNAR 102 Art History I	3
HA 151 Western Art History 2	3	FNAR 103 Art History 2	3
HIST 128 Hist US thrgh Civil War	3	HIST 104 United States To 1877	3
HIST 129 Hist of US After Civil War	3	HIST 105 United States Since 1877	3
<b>Social Sciences</b>		<b>GE3S</b>	
GEOG 102 Princ of Human Geography		GEOG 101 Intro to Cultural Geography	3
EPSY S305 Child Development	3	PSYC 202 Child Development	3
ANTH 108 Cultural Anthropology	3	ANTH 101 Intro Cultural Anthropology	3

COMS 244 Intr Personal Comm	3	SPCH 153 INTERPERSONAL Communications	3
ECON 142 Princ of Microeconomics	3	ECON 202 Principles of Microeconomics	3
ECON 144 Princ of Macroeconomics	3	ECON 201 Principles of Macroeconomics	3
POLS 110 Intro to US Politics	3	POSC 111 American National Govern	3
POLS 170 Intro to International Politics	3	POSC 102 International Relations	3
PSYC 104 General Psychology	3	PSYC 101 Psychology	3
SOC 104 Elements of Sociology	3	SOSC 107 Sociology	3
		PSYC 203 Human Development	3
PSYC 120 Personality	3	PSYC 204 Personality	3
ANTH 100 General Anthropology	3	ANTH 100 General Anthropology	3
		POSC 101 Intro To Political Science	3
SOC 220 Sociology of Families	3	SOSC 108 Sociology Of The Family	3
JOUR 101 Media and Society	3	JOUR 175 Intro to Mass Media	3
BLAW S301 Legal Aspects of Business		BUSN 204 Business Law	3

#### Goal 4: Culture and Diversity (1 Unit from each outcome)

Outcome 1		AE41	
AAAS 106 The Black Experience in America	3	HIST 106 Black History	3
SOC 160 Social Problems/ American Values	3	SOSC 209 Social Problems	3
WGSS 101 Intro to Wmn,Gnd,Sexu Studies	3	HUMN 150 Intro to Women's Studies	3
REL 171 Religion in American Society	3	HIST 108 Religion in America	3
SOC 104 Principals of Sociology	3	SOSC 107 Sociology	3
Outcome 2		AE42	
HWC 204 Western Civilization	3	HIST 204 or 115 Western Civilization	3
HWC 205 Western Civilization 2	3	HIST 205 or 116 Western Civilization 2	3
POLS 170 Intro to International Politics	3	POSC 102 International Relations	3
GEOG 102 Princ of Human Geography	3	GEOG 101 Intro to Cultural Geography	3
ANTH 108 Cultural Anthropology	3	ANTH 101 Intro Cultural Anthropology	3
REL 104 Intro to Religious Studies	3	HUMN 207 Comparative Wrld Religions	3
		HIST 103 Modern Asia	3
		ENGL 214 African-American Literature	3
		ENGL 220 Native American Literature	3
		ANTH 106 North American Indians	3
SPAN 212 Intermediate Spanish	3	LANG 243 Spanish	3
SPAN 216 Intermediate Spanish 2	3	LANG 244 Spanish 2	3
GERM 104 Elementary German	5	LANG 121 German	5
GERM 108 Elementary German 2	5	LANG 122 German 2	5
GERM 201 Intermediate German	3	LANG 223 German 3	3
GERM 202 Intermediate German 2	3	LANG 224 German 4	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