

Independence 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

Independence Equivalents

ENGLISH (2 courses)					Core
ENGL 101 Composition	3		ENG 1003 or 1005 English Composition	3	GE21
ENGL 102 Critical Reading and Writing	3		ENG 1013 English Composition 2	3	GE21

MATHEMATICS					Core
MATH 125 Calculus	4		MAT 1055 Analytic Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 2025 Analytic Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MAT 2033 Analytic Geometry & Calculus 3	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		PHS 2055 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 2065 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5		PHS 1025 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		PHS 1035 College Chemistry 2	5	GE3N, GE12
CHEM S330 & S331 Organic Chemistry	5		PHS 2025 Organic Chemistry 1	5	

Petroleum Engineering:

KU Course Requirements

Independence Equivalents

MATHEMATICS					Core
MATH 125 Calculus	4		MAT 1055 Analytic Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 2025 Analytic Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MAT 2033 Analytic Geometry & Calculus 3	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		PHS 2055 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 2065 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5		PHS 1025 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		PHS 1035 College Chemistry 2	5	GE12, GE3N
GEOL 101 & 103 How the World Works	3		PHS 1105 Geology	5	GE3N

COMMUNICATION					Core
COMS 130 Public Speaking	3		COM 1203 Speech	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

Independence 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		ENG 1003 English Composition
ENGL 101 Composition	3		ENG 1005 English Composition
ENGL 102 Critical Reading and Writing	3		ENG 1013 English Composition 2
ENGL 211 Intro to Drama	3		ENG 2043 Intro Dramatic Literature
Outcome 2 (not needed for Petroleum)			GE22
COMS 130 Speaker-Audience Communication	3		COM 1203 Speech

Goal 3: Breadth of Knowledge (3 Units) -one from each category			
Arts & Humanities			GE3H
ANTH 110 Intro to Archaeology	3		SOC 1053 Intro to Archaeology
HIST 121 Modern Latin America	3		SOC 2083 Modern Latin America
ART 101 Drawing I	3		AED 1023 Drawing and Composition
HA 100 Intro to Western Art History	3		AED 1043 Art Appreciation
PHMD 101 Fundamentals of Photography	3		COM 1403 Photo I
			ENG 1083 American Literature
			ENG 2113 American Literature 2
			ENG 2083 Contemporary Dramatic Literature
			ENG 2073 Introduction to Modern Novel
			ENG 2123 British Literature
			ENG 2133 British Literature 2
			ENG 2143 Survey of Black Literature
			ENG 2163 Inge and Contemporary Playwrights
ENGL 211 Intro to Drama	3		ENG 2043 Intro Dramatic Literature
REL 104 Intro to Religious Studies	3		REL 1000 World Religions
			REL 1003 Old Testament History
			REL 1013 New Testament History
PHIL 140 Intro to Philosophy	3		SOC 2003 Intro To Philosophy
PHIL 148 Reason and Argument	3		SOC 2073 Logic and Classical Reasoning
PHIL 160 Intro to Ethics	3		SOC 1073 Ethics
THR 100 Intro to Theatre	3		THR 1013 Theatre Appreciation
THR 106 Intro to Acting	3		THR 1023 Introduction to Acting
HIST 128 Hist US thrgh Civil War	3		HIS 1023 United States History (1850-1930)
HIST 129 Hist of US After Civil War	3		HIS 1063 United States Hist (Contemp)
			HIS 1003 History of Early Civilization
			HIS 1013 History of Modern Civilization
HSES 244 Intro Phys Ed and Sport Studies	3		PED 1713 Intro to Physical Education
Social Sciences			GE3S
EPSY S305 Dev and Learning of Young Child	3		BEH 1013 Child Psychology
			POL 1013 Intro to Political Science
COMS 244 Intr Personal Comm	3		COM 1233 Interpersonal Communication
ECON 142 Princ of Microeconomics	3		BUS 2023 Microeconomics
ECON 144 Princ of Macroeconomics	3		BUS 2033 Macroeconomics
POLS 110 Intro to US Politics	3		POL 1023 American Government
PSYC 104 General Psychology	3		BEH 1003 General Psychology
			BEH 2003 Developmental Psychology
SOC 104 Elements of Sociology	3		SOC 1003 Introduction to Sociology
SOC 220 Sociology of Families	3		SOC 1013 Sociology of Families
ANTH 100 General Anthropology	3		SOC 1023 Anthropology
SW 220 Social Work, Soc Welfare and US society	3		SOC 1213 Intro to Social Work
POLS 170 Intro to International Politics	3		POL 1043 International Politics

Goal 4: Culture and Diversity (1 Unit from each outcome)			
Outcome 1			AE41
SOC 160 Intro to Social Problems	3		SOC 2023 Social Problems
SOC 104 Elements of Sociology	3		SOC 1003 Introduction to Sociology
SOC 220 Sociology of Families	3		SOC 1013 Sociology of Families
AAAS 106 Black Experience in Americas	3		HIST 1163 African American History
			ENG 2143 Survey of Black Literature
Outcome 2			AE42
HA 100 Intro to Western Art History	3		AED 1043 Art Appreciation
			HIS 1003 History of Early Civilization
ANTH 100 General Anthropology	3		SOC 1023 Anthropology
REL 104 Intro to Religious Studies	3		REL 1000 World Religions
GEOG 100 World Regional Geography	3		SOC 2013 World Regional Geography
SPAN 212 Intermediate Spanish	3		FRL 2035 Spanish 3
SPAN 216 Intermediate Spanish 2	3		FRL 2043 Spanish 4
POLS 170 Intro to International Politics	3		POL 1043 International Politics

- 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