

Highland 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

Highland Equivalents

ENGLISH (2 courses)					Core
ENGL 101 Composition	3		ENG 101 College English I	3	GE21
ENGL 102 Critical Reading and Writing	3		ENG 102 College English II	3	GE21

MATHEMATICS					Core
MATH 125 Calculus	4		MATH 120 Analytic Geom & Calc	5	GE12
MATH 126 Calculus 2	4		MATH 221 Analytic Geom & Calc 2	5	
MATH 127 Calculus 3	4		MATH 222 Analytic Geom & Calc 3	5	
MATH 220 Differential Equations	3		No equivalent		
MATH 290 Elementary Linear Algebra	2		No equivalent		

NATURAL SCIENCES					Core
PHSX 211 & 216 Engineering Physics	5		PS 215 College Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PS 216 College Physics 2	5	GE3N
CHEM 130 Chemistry	5		PS 111 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		PS 112 College Chemistry 2	5	GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		PS 210 Organic Chemistry 1	5	

Petroleum Engineering:

KU Course Requirements

Highland Equivalents

MATHEMATICS					Core
MATH 125 Calculus	4		MATH 120 Analytic Geom & Calc	5	GE12
MATH 126 Calculus 2	4		MATH 221 Analytic Geom & Calc 2	5	
MATH 127 Calculus 3	4		MATH 222 Analytic Geom & Calc 3	5	
MATH 220 Differential Equations	3		No equivalent		
MATH 290 Elementary Linear Algebra	2		No equivalent		

NATURAL SCIENCES					Core
PHSX 211 & 216 Engineering Physics	5		PS 215 College Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PS 216 College Physics 2	5	GE3N
CHEM 130 Chemistry	5		PS 111 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		PS 112 College Chemistry 2	5	GE12, GE3N
GEOL 101 & 103 How the World Works	3		PS 104 General Geology (must take lab at KU)	4	GE3N

COMMUNICATION					Core
COMS 130 Public Speaking	3		SP 106 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****Highland 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 101 College English I
ENGL 102 Critical Reading and Writing	3		ENG 102 College English II
ENGL 211 Intro to Drama	3		ENG 207 Narrative Film
HWC 204 Western Civilization	3		HIS 204 Readings Western Civ
Outcome 2 (not needed for Petroleum)			GE22
COMS 130 Speaker-Audience Communication	3		SP 106 Public Speaking

Goal 3: Breadth of Knowledge (3 Units) -one from each category			
Arts & Humanities			GE3H
HA 150 History of Western Art	3		A 201 Art History
			A 101 Art Appreciation
ART 101 Drawing I	3		A 107 Drawing I
ANTH 110 Intro to Archaeology	3		ANT 100 Intro to Archaeology
			ENG 202 American Literature I
			ENG 207 Narrative Film
			ENG 208 Intro To The Short Story
			ENG 209 American Literature II
			ENG 210 World Literature I
			ENG 211 World Literature II
			ENG 212 English Literature I
			ENG 213 English Literature II
			ENG 205 Old Testament Literature
			M 103 Music History and Appreciation
			M 223 History of Jazz
HSES 244 Physical Ed and Sport Studies	3		PE 123 Principles of Education
HSES 244 Physical Ed and Sport Studies	3		PE 111 History/Principles of Physical Education
			PHI 105 Religions Of The World
PHIL 140 Intro to Philosophy	3		PHI 101 Introduction To Philosophy
PHIL 160 Intro to Ethics	3		PHI 102 Intro to Ethics
PHMD 101 Fundamentals of Photography	3		PHO 101 Basic Photography
THR 100 Intro to Theatre	3		TH 105 Intro To Dramatics
			TH 108 History & App Of Theatre Arts
THR 106 Intro to Acting	3		TH 110 Acting I
HIST 128 Hist US thrgh Civil War	3		HIS 101 United States History I
HIST 129 Hist of US After Civil War	3		HIS 102 United States History II
Social Sciences			GE3S
COMS 244 Intr Personal Comm	3		SP 105 Interpersonal Communication
ECON 142 Princ of Microeconomics	3		BUS 204 Microeconomics
SOC 110 American Identities	3		SOC 106 Diversity and Inclusiveness
ECON 144 Princ of Macroeconomics	3		BUS 203 Macroeconomics
POLS 110 Intro to US Politics	3		POL 100 United States Government
EPSY S305 Dev and Learning of Young Child	3		PSY 202 Child Psychology
	3		PSY 205 Human Growth & Development
PSYC 104 General Psychology	3		PSY 101 General Psychology
SOC 104 Elements of Sociology	3		SOC 101 General Sociology
	3		POL 101 Intro To Political Science
ANTH 100 General Anthropology	3		ANT 112 General Anthropology
SOC 220 Sociology of Families	3		SOC 102 Marriage and the Family
SW Social Work, Soc Welfare in US Society	3		SOC 104 Intro to Social Work

Goal 4: Culture and Diversity (1 Unit from each outcome)			
Outcome 1			AE41
SOC 160 Intro to Social Problems	3		SOC 210 Social Problems
SOC 110 American Identities	3		SOC 106 Diversity and Inclusiveness
SOC 104 Elements of Sociology	3		SOC 101 General Sociology
Outcome 2			AE42
HA 150 History of Western Art	3		A 201 Art History
ANTH 100 General Anthropology	3		ANTH 112 General Anthropology
GEOG 100 World Regional Geography	3		GEO 212 World Regional Geography
			M 162 World Music
			PHI 105 Religions Of The World
HWC 204 Western Civilization	3		HIS 204 or 103 Readings in Western Civ
HWC 205 Western Civilization 2	3		HIS 205 Readings in Western Civ 2

- 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