

# Haskell Indian Nations University

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**

#### **Haskell Equivalents**

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

<b>MATHEMATICS</b>					<b>Core</b>
MATH 125 Calculus	4		MATH 221 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MATH 222 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		No equivalent		
MATH 220 Differential Equations	3		MATH 227 Differential Equations	4	
MATH 290 Elementary Linear Algebra	2		No equivalent		

<b>NATURAL SCIENCES</b>					<b>Core</b>
PHSX 211 & 216 Engineering Physics	5		PHYS 211 College Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHYS 212 College Physics 2	5	GE3N
CHEM 130 Chemistry	5		CHEM 101 General Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHEM 102 General Chemistry 2	5	GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		No equivalent		

#### Petroleum Engineering:

#### **KU Course Requirements**

#### **Haskell Equivalents**

<b>MATHEMATICS</b>					<b>Core</b>
MATH 125 Calculus	4		MATH 221 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MATH 222 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		No equivalent		
MATH 220 Differential Equations	3		MATH 227 Differential Equations	4	
MATH 290 Elementary Linear Algebra	2		No equivalent		

<b>NATURAL SCIENCES</b>					<b>Core</b>
PHSX 211 & 216 Engineering Physics	5		PHYS 211 College Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHYS 212 College Physics 2	5	GE3N
CHEM 130 Chemistry	5		CHEM 101 General Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHEM 102 General Chemistry 2	5	GE12, GE3N
GEOL 101 & 103 How the World Works	3		No equivalent		GE3N

<b>COMMUNICATION</b>					<b>Core</b>
COMS 130 Public Speaking	3		COMS 131 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****Haskell 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 English
ENGL 102 Critical Reading and Writing	3		ENGL 102 English 2
ENGL 211 Intro to Drama	3		THEA 203 Intro Dramatic Literature
HWC 204 Western Civilization I	3		HIST 110 Western Civilization
<b>Outcome 2 (not needed for Petroleum)</b>			<b>GE22</b>
COMS 130 Speaker-Audience Communication	3		COMS 131 Public Speaking
			COMS 151 Speech Communication

<b>Goal 3: Breadth of Knowledge (3 Units) –one from each category</b>			
<b>Arts &amp; Humanities</b>			<b>GE3H</b>
			ENGL 210 Themes and Issue in Literature
			ENGL 212 American Indian Literature
			ENGL 221 Fiction Writing
			ENGL 310 Short Fiction
			ENGL 311 Literature of American West
ENGL 211 Intro to Drama	3		THEA 203 Int Drama Literature
			AIS 346 Philosophy in Indigenous Literature
			AIS 350 Foundations of Indigenous Philosophy
THR 100 Intro to Theatre	3		THEA 100 Intro to Theatre
THR 106 Intro to Acting	3		THEA 106 Acting
HA 150 Western Art History	3		ART 240 Art History
ART 101 Drawing I	3		ART 110 Drawing I
HIST 128 Hist US thrgh Civil War	3		HIST 101 US History before Civil War
HIST 129 Hist of US After Civil War	3		HIST 102 US History since Civil War
	3		HIST 221 World Civilizations
			HIST 222 World Civilizations 2
HSES 244 Intro PE and Sport Studies	3		HSES 102 Intro to Health, Sport and Exercise Science
<b>Social Sciences</b>			<b>GE3S</b>
COMS 244 Intr Personal Comm	3		COMS 226 Interpersonal Communication
ECON 142 Princ of Microeconomics	3		ECON 201 Princ of Microeconomics
ECON 144 Princ of Macroeconomics	3		ECON 202 Princ of Macroeconomics
PSYC 104 General Psychology	3		PSYC 101 General Psychology
SOC 104 Elements of Sociology	3		SOC 101 Intro to Sociology
METL 211 Jewelry	3		ART 150 Silverworking Techniques
JOUR 101 Media and Society	3		MCM 231 Intro to Mass Communication
SW 220 Soc Work, Soc Welfare and US Society	3		SW 201 Social Welfare and Society
			SW 110 Chemical Dependency and the Native American
SOC 220 Sociology of Families	3		SOC 201 Marriage and Family

<b>Goal 4: Culture and Diversity (1 Unit from each outcome)</b>			
<b>Outcome 1</b>			<b>AE41</b>
SOC 160 Intro to Social Problems	3		SOC 102 Social Problems
SOC 220 Sociology of Families	3		SOC 201 Marriage and Family
SOC 104 Elements of Sociology	3		SOC 101 Intro to Sociology
<b>Outcome 2</b>			<b>AE42</b>
GEOG 100 World Regional Geography	3		GEOG 110 World Geography
HWC 204 Western Civilization I	3		HIST 10 Western Civ
HWC 205 Western Civilization II	3		HIST 112 Western Civ 2
HA 150 Western Art History I	3		ART 240 Art History I
			AIS 102 American Indian Issues

		AIS 110 Hist Native American Tribes	3
		AIS 312 American Indian Exp 20 <sup>th</sup> C	3
		AIS 321 Human Behav American Indian	3
		AIS 340 American Indian Poet	3
		AIS 341 American Indian Narratives	3
		AIS 343 American Indian Film	3
		AIS 344 American Indian Literature	3
		AIS 346 Philosophy in Indigenous Literature	3
		AIS 350 Foundations of Indigenous	3
		AIS 352 American Indian Drama	3
		AIS 410 American Indian Literature	3
		AIS 411 American Indian Literature	3
		TMGM 101 Intr Tribal Mgmt	3
		TMGM 201 Tribal/Federal Government	3
		TMGM 321 Indian Law and Legislation	3
		TMGM 330 Fund Tribal Sover	3
		TMGM 410 Tribal Resor/Econ Dev	3
		SW 110 Chemical Dependency and the Native American	3
		ENGL 212 American Indian Literature	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