

Cowley County 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

Cowley Equivalents

ENGLISH (2 courses)					Core
ENGL 101 Composition	3		ENG 2211 Composition	3	GE21
ENGL 102 Critical Reading and Writing	3		ENG 2212 Composition 2	3	GE21

MATHEMATICS					Core
MATH 125 Calculus	4		MTH 4435 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MTH 4440 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MTH 4455 Analytical Geometry & Calculus 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		PHS 4560 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 4561 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5		CHM 4220 Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHM 4230 Chemistry 2	5	GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		CHM 4250 Organic Chemistry 1	5	

Petroleum Engineering:

KU Course Requirements

Cowley Equivalents

MATHEMATICS					Core
MATH 125 Calculus	4		MTH 4435 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MTH 4440 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MTH 4455 Analytical Geometry & Calculus 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		PHS 4560 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 4561 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5		CHM 4220 Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHM 4230 Chemistry 2	5	GE12, GE3N
GEO 101 & 103 How the World Works	3		GEO 4311 Geology	5	GE3N

COMMUNICATION					Core
COMS 130 Public Speaking	3		COM 2711 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****Cowley 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 2211 Composition 3
ENGL 102 Critical Reading and Writing	3		ENG 2212 Composition 2 3
ENGL 211 Intro to Drama	3		LIT 2565 Dramatic Literature 3
Outcome 2 (not needed for Petroleum)			GE22
COMS 130 Speaker-Audience Communication	3		COM 2711 Speech 3

Goal 3: Breadth of Knowledge (3 Units) -one from each category			
Arts & Humanities			GE3H
ANTH 110 Intro to Archaeology	3		ANT 6920 Intro To Archaeology 3
	3		LIT 2531 African-American Literature 3
			LIT 2550 American Literature 3
			LIT 2551 American Literature 2 3
			LIT 2560 English Literature 3
			LIT 2561 English Literature 2 3
			LIT 2563 Gender/Genre Literature 3
			LIT 2567 Native American Literature 3
ENGL 211 Intro to Drama	3		LIT 2565 Dramatic Literature 3
REL 104 Intro to Religions	3		REL 6430 Comparative Religions 3
			REL 6432 Survey Of The Old Testament 3
			REL 6434 Survey Of The New Testament 3
PHIL 140 Intro to Philosophy	3		PHO 6447 Intro To Philosophy 3
PHIL 160 Ethics	3		PHO 6460 Ethics 3
THR 100 Intro to Theatre	3		THE 2730 Theatre Appreciation 3
THR 106 Intro to Acting	3		THE 2735 Acting 3
REL 104 Intro to Religious Studies	3		REL 6430 Comparative Religions 3
HA 150 Western Art History	3		ART 2141 Art History 3
HIST 128 Hist US thrgh Civil War	3		HIS 6411 U.S. History To 1877 3
HIST 129 Hist of US After Civil War	3		HIS 6412 U.S. History Since 1865 3
			HIS 6420 World History 3
			HIS 6421 World History 2 3
HSES 244 Intro to Physical Ed and Sport Science	3		HPE 6311 Intro to Physical Education 3
Social Sciences			GE3S
EPSY S305 Child Development	3		CHC 5711 Orient Child Care Fld 3
GEOG 102 Princ of Human Geography	3		GEG 6120 Principles Of Geography 3
ANTH 108 Cultural Anthropology	3		ANT 6911 Cultural Anthropology 3
			ANT 6912 Intro Linguistic Anthropology 3
COMS 244 Intr Personal Comm	3		COM 2725 Interpersonal Comm 3
ECON 142 Princ of Microeconomics	3		ECO 6114 Prin Of Microeconomics 3
ECON 144 Princ of Macroeconomics	3		ECO 6113 Prin Of Macroeconomics 3
POLS 110 Intro to US Politics	3		POL 6611 American National Govern 3
PSYC 104 General Psychology	3		PSY 6711 General Psychology 3
SOC 104 Elements of Sociology	3		SOC 6811 Principles Of Sociology 3
			PSY 6712 Developmental Psychology 3
JOUR 101 Media and Society	3		MCM 2411 Mass Media and Society 3

Goal 4: Culture and Diversity (One Unit from each outcome)			
Outcome 1			AE41
SOC 104 Elements of Sociology	3		SOC 6811 Principles Of Sociology 3
SOC 160 Social Problems and American Values	3		SOC 6916 Social Problems 3
Outcome 2			AE42

Cowley County Community College Chemical Engineering ~updated April 28, 2015

ANTH 108 Intro to Cultural Anthropology	3		ANT 6911 Cultural Anthropology	3
GEOG 102 Princ of Human Geography	3		GEG 6120 Principles Of Geography	3
REL 104 Intro to Religious Studies	3		REL 6430 Comparative Religions	3
			REL 6430 Comparative Religions	3
			LIT 2567 Native American Literature	3
			LIT 2531 African-American Literature	3
HA 150 Western Art History I	3		ART 2141 Art History	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