

Garden City Community College

Transfer Program to University of Kansas

B.S. Engineering Physics

(Aerospace Systems, Chemical Systems, Digital Electronic Systems, Electromechanical Control Systems)

Number to call at KU for advising: (785) 864-4626

Website: www.physics.engr.ku.edu

Transfer students must have at least a 3.0 GPA and proof of competency in calculus.

Requirements (all students):

Aerospace Systems:

KU Course Requirements

Garden City Equivalents

MATHEMATICS					<u>Core</u>
MATH 125 Calculus	4		MATH 122 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MATH 123 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		MATH 205 Calculus and Analytical Geometry 3	5	
MATH 290 Elementary Linear Algebra	2		No equivalent		
MATH 220 Differential Equations	3		No equivalent		

NATURAL SCIENCES					<u>Core</u>
PHSX 211 & 216 Engineering Physics	5		PHYS 207 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHYS 208 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5		CHEM 109 College Chemistry	5	GE12, GE3N

Chemical Systems:

KU Course Requirements

Garden City Equivalents

MATHEMATICS					<u>Core</u>
MATH 125 Calculus	4		MATH 122 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MATH 123 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		MATH 205 Calculus and Analytical Geometry 3	5	
MATH 220 Differential Equations	3		No equivalent		
MATH 290 Elementary Linear Algebra	2		No equivalent		

NATURAL SCIENCES					<u>Core</u>
PHSX 211 & 216 Engineering Physics	5		PHYS 207 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHYS 208 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5		CHEM 109 College Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHEM 110 College Chemistry 2	5	GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		CHEM 206 Organic Chemistry 1	5	

Digital Electronic Systems:

KU Course Requirements

Garden City Equivalents

MATHEMATICS					<u>Core</u>
MATH 125 Calculus	4		MATH 122 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4		MATH 123 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4		MATH 205 Calculus and Analytical Geometry 3	5	
MATH 290 Elementary Linear Algebra	2		No equivalent		
MATH 220 Differential Equations	3		No equivalent		

NATURAL SCIENCES					<u>Core</u>
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PHSX 211 & 216 Engineering Physics	5	PHYS 207 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4	PHYS 208 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5	CHEM 109 College Chemistry	5	GE12, GE3N

Electromechanical Control Systems:**KU Course Requirements****Garden City Equivalents**

MATHEMATICS				Core
MATH 125 Calculus	4	MATH 122 Calculus and Analytical Geometry	5	GE12
MATH 126 Calculus 2	4	MATH 123 Calculus and Analytical Geometry 2	5	
MATH 127 Calculus 3	4	MATH 205 Calculus and Analytical Geometry 3	5	
MATH 290 Elementary Linear Algebra	2	No equivalent		
MATH 220 Differential Equations	3	No equivalent		

NATURAL SCIENCES				Core
PHSX 211 & 216 Engineering Physics	5	PHYS 207 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4	PHYS 208 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5	CHEM 109 College Chemistry	5	GE12, GE3N

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**Garden City Equivalents**

Goal 2: Communication (3 Units) –two from outcome 1 and one outcome 2				
Outcome 1			GE21	
ENGL 101 Composition	3	ENGL 101 English		3
ENGL 102 Critical Reading and Writing	3	ENGL 102 English 2		3
Outcome 2			GE22	
COMS 130 Speaker-Audience Communication	3	SPCH 111 Public Speaking I		3

Goal 3: Breadth of Knowledge (3 Units) –one from each category				
Arts & Humanities			GE3H	
		LITR 212 English Literature		3
		LITR 225 Ethnic Minority Literature US 1920+		3
		LITR 230 Understanding Old Testament		3
		LITR 231 Understanding New Testament		3
		LITR 213 English Literature 2		3
		LITR 215 American Literature		3
		LITR 216 American Literature 2		3
		LITR 253 World Lit & Human Experience		3
		ARTS 121 History Of World Art		3
ART 101 Drawing I	3	ARTS 1013 Drawing I		3
PHIL 140 Intro to Philosophy	3	PHIL 101 Intro To Philosophy		3
PHIL 148 Reason and Argument	3	PHIL 103 Logic		3
PHIL 160 Intro to Ethics	3	PHIL 102 Elementary Ethics		3
THR 215 Approaching Design	3	DRAM 142 Stagecraft II		3
THR 100 Intro to Theatre	3	DRAM 150 Intro To Theatre		3
THR 106 Intro to Acting	3	DRAM 111 Acting I		3
		DRAM 120 Drama History and Literature		3
HIST 128 Hist US thrgh Civil War	3	HIST 103 American History To 1865		3
HIST 129 Hist of US After Civil War	3	HIST 104 American History Since 1865		3
HSES 244 Foundations of Phys Ed	3	HPER 291 Hist and Prin of Phys Ed		3
Social Sciences			GE3S	
CER 208 Ceramics	3	ARTS 1113 Ceramics		3
COMS 244 Intr Personal Comm	3	SPCH 113 Interpersonal Communication		3
ECON 144 Princ of Macroeconomics	3	ECON 112 Economics: Micro		3

ECON 142 Princ of Microeconomics	3		ECON 111 Economics: Macro	3
POLS 110 Intro to US Politics	3		POLS 105 American Government	3
PSYC 104 General Psychology	3		PSYC 101 General Psychology	3
SOC 104 Elements of Sociology	3		SOCI 102 Intro To Sociology	3
ANTH 108 Cultural Anthropology	3		SOCI 105 Intro To Anthropology	3
SOC 220 Sociology of Families	3		SOCI 113 Sociology of Families	3
			EDUC 110 Developmental Psychology	3
JOUR 101 Media and Society	3		JRNL 110 Media in Free Society	3
WGSS 101 Women, Gender and Sexuality Studies	3		HUMA 105 Intro Women's Studies	3

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

Outcome 1		AE41	
SOC 104 Elements of Sociology	3	SOCI 102 Intro To Sociology	3
SOC 160 Intro to Social Problems	3	SOCI 204 Social Problems	3
SOC 220 Sociology of Families	3	SOCI 113 Sociology of Families	3
WGSS 101 Women, Gender and Sexuality Studies	3	HUMA 150 Women's Studies	3
Outcome 2		AE42	
GEOG 100 World Regional Geography	3	GEOG 101 World Geography	3
ANTH 108 Intro to Cultural Anthropology	3	SOCI 105 Intro to Anthropology	3
		LITR 225 Ethnic Minority Literature US 1920+	3
		LITR 253 World Literature and Human Experience	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