

Garden City Community College
Transfer Program to University of Kansas
B.S. Electrical Engineering & Computer Science

(Computer Engineering, Computer Science, Electrical Engineering, Information Technology (Edward Campus only) and Interdisciplinary Computing)

Number to call at KU for advising: (785) 864-4487

Website: www.eecs.ku.edu

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

Requirements (all students):

Computer Engineering:

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 220 Differential Equations	3		No equivalent		
MATH 290 Elementary Linear Algebra	2		No equivalent		

ECONOMICS & electives

Core

Choose One:					
ECON 142 Princ of Microeconomics	3		ECON 112 Economics: Micro	3	GE3S
ECON 144 Princ of Macroeconomics	3		ECON 111 Economics: Macro	3	GE3S
Electives-12 hours total of Humanities & Social Science (must be GE3H, AE41, AE42 + one extra GE3H or GE3S)					

NATURAL SCIENCES

Core

PHSX 211 & 216 Engineering Physics	5		PHYS 207 Engineering Physics	5	GE3N, GE11, GE12
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Computer Science:

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		

Humanities & Social Science electives

Core

Electives-12 hours total of Humanities & Social Science (must include 2 GE3H and 2 GE3S)					
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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
Choose One:					
CHEM 130 Chemistry	5		ECON 112 Economics: Micro	5	GE12, GE3N
CHEM 135 Chemistry 2	5		ECON 111 Economics: Macro	5	GE12, GE3N
GEOG 104 & 105 Princ Physic Geography			No equivalent		
GEOL 101 How the World Works	3		PHSC 205 Physical Geology	5	GE3N

Electrical Engineering:

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 220 Differential Equations	3	No equivalent		
MATH 290 Elementary Linear Algebra	2	No equivalent		

ECONOMICS & electives				Core
Choose One:				
ECON 142 Princ of Microeconomics	3	ECON 112 Economics: Micro	3	GE3S
ECON 144 Princ of Macroeconomics	3	ECON 111 Economics: Macro	3	GE3S
Electives-12 hours total of Humanities & Social Science (must be GE3H, AE41, AE42 + one extra GE3H or GE3S)				

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

Information Technology:**KU Course Requirements****Garden City Equivalents**

MATHEMATICS				Core
MATH 101 College Algebra	3	MATH 108 College Algebra	3	GE12
OR				
MATH 104 Precalculus Mathematics	5	MATH 120 Precalculus	5	GE12
MATH S365 Elementary Statistics	3	MATH 110 Fundamentals of Statistics	3	GE12

ECONOMICS & electives				Core
ECON 104 Intro to Economics	3	No equivalent		GE3S
ENGL 362 Technical Writing	3	No equivalent		

NATURAL SCIENCES-Choose one				Core
PHSX 211 & 216 Engineering Physics	5	PHYS 207 Engineering Physics	5	GE3N, GE11, GE12
PHSX 114 College Physics	5	PHYS 205 General Physics	5	GE3N, GE11, GE12
CHEM 130 Chemistry	5	CHEM 109 College Chemistry	5	GE12, GE3N
BIOL 150 Prn Molecular/Cellular	5	No equivalent		

Interdisciplinary Computing-Astronomy:**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
ASTR 191 Contemporary Astronomy	3	PHSC 106 Descriptive Astronomy	4	GE3N

Interdisciplinary Computing-Biology:**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		

NATURAL SCIENCES				Core
CHEM 130 Chemistry	5	CHEM 109 College Chemistry	5	GE3N, GE12
CHEM 135 Chemistry 2	5	CHEM 110 College Chemistry 2	5	GE3N, GE12
BIOL 150 Prn Molecular/Cellular	5	No equivalent		
BIOL 152 Princ of Organismal Biology	5	BIOL 207 Organismal Biology	5	GE3N

ETHICS				Core
PHIL 160 Intro to Ethics	3	PHIL 102 Elementary Ethics	3	AE51, GE11, GE3H

Interdisciplinary Computing-Chemistry:**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
CHEM 130 Chemistry	5	CHEM 109 College Chemistry	5	GE3N, GE12
CHEM 135 Chemistry 2	5	CHEM 110 College Chemistry 2	5	GE3N, GE12
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 330 & 331 Organic Chemistry	5	CHEM 206 Organic Chemistry 1	5	

Interdisciplinary Computing-Geography:**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		

NATURAL SCIENCES				Core
PHSX 211 & 216 Engineering Physics	5	PHYS 207 Engineering Physics	5	GE3N, GE11, GE12

Interdisciplinary Computing-Physics:**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 220 Differential Equations	3	No equivalent		
MATH 290 Elementary Linear Algebra	2	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

Interdisciplinary Computing-Journalism:

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		

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 1: Critical Thinking and Quantitative Literacy (1 Unit from each outcome)				
Outcome 1			GE11	
Only Interdisciplinary Computing (Geography and Journalism needs to take one of these courses)				
COMS 230 Fundamentals of Debate	3	SPCH 123 Argumentation & Debate		3
PHIL 140 Intro to Philosophy	3	PHIL 101 Intro To Philosophy		3
PHIL 148 Reason and Argument	3	PHIL 103 Logic: Intro To Clear Thinking		3
PHIL 160 Intro to Ethics	3	PHIL 102 Elementary Ethics		3
SOC 104 Elements of Sociology	3	SOCI 102 Sociology		3
SOC 160 Social Problems/American Values	3	SOCI 204 Social Problems		3
PHSX 111 Introductory Physics	3	PHYS 106 Descriptive Physics		3
PHSX 114 College Physics I	4	PHYS 206 General Physics I		5
PHSX 211/216 General Physics I	4	PHYS 207 Engineering Physics		5

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