

Ft Scott 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 2.5 GPA and proof of competency in calculus.

Requirements (all students):

Computer Engineering:

KU Course Requirements

Ft Scott Equivalents

MATHEMATICS					Core
MATH 125 Calculus	4		MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MAT 2033 Analytical Geometry & Calculus 3	3	
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		ECO 1013 Microeconomics	3	GE3S
ECON 144 Princ of Macroeconomics	3		ECO 2023 Macroeconomics	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		PHS 2015 College Physics: w/Calc	5	GE3N, GE11, GE12

Computer Science:

KU Course Requirements

Ft Scott Equivalents

MATHEMATICS					Core
MATH 125 Calculus	4		MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MAT 2033 Analytical Geometry & Calculus 3	3	
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)					

NATURAL SCIENCES					Core
PHSX 211 & 216 Engineering Physics	5		PHS 2015 College Physics: w/Calc	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 2025 College Physics 2 w/ Calc	5	GE3N
Choose One:					
CHEM 130 Chemistry	5		CHE 1015 General Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHE 1025 General Chemistry 2	5	GE12, GE3N
GEOG 104 & 105 Princ Physic Geography			GEO 1013 Principles Of Geography (must take lab at KU)	5	GE3N
GEOL 101 How the World Works	3		No equivalent		GE3N

Electrical Engineering:

KU Course Requirements**Ft Scott Equivalents**

MATHEMATICS				Core
MATH 125 Calculus	4		MAT 1015 Analytical Geometry & Calculus	5 GE12
MATH 126 Calculus 2	4		MAT 1025 Analytical Geometry & Calculus 2	5
MATH 127 Calculus 3	4		MAT 2033 Analytical Geometry & Calculus 3	3
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		ECO 1013 Microeconomics	3 GE3S
ECON 144 Princ of Macroeconomics	3		ECO 2023 Macroeconomics	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		PHS 2015 College Physics: w/Calc	5 GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 2025 College Physics 2 w/ Calc	5 GE3N
CHEM 130 Chemistry	5		CHE 1015 General Chemistry	5 GE12, GE3N

Information Technology:**KU Course Requirements****Ft Scott Equivalents**

MATHEMATICS				Core
MATH 101 College Algebra	3		MAT 1083 College Algebra	3 GE12
OR				
MATH 104 Precalculus Mathematics	5		MAT 1083 and 1093 Precalculus Math	5 GE12
MATH S365 Elementary Statistics	3		MAT 2253 Elementary Statistics	3 GE12

ECONOMICS & electives				Core
ECON 104 Intro to Economics	3		No equivalent	GE3S
ENGL 362 Technical Writing	3		ENG 2813 Technical Writing	3

NATURAL SCIENCES-Choose one				Core
PHSX 211 & 216 Engineering Physics	5		PHS 2015 College Physics: w/Calc	5 GE3N, GE11, GE12
PHSX 114 College Physics	5		PHS 2065 College Physics: Non-Calc	5 GE3N, GE11, GE12
CHEM 130 Chemistry	5		CHE 1015 General Chemistry	5 GE12, GE3N
BIOL 150 Prn Molecular/Cellular	5		BIO 1225 Princ of Biology	5 GE3N

Interdisciplinary Computing-Astronomy:**KU Course Requirements****Ft Scott Equivalents**

MATHEMATICS				Core
MATH 125 Calculus	4		MAT 1015 Analytical Geometry & Calculus	5 GE12
MATH 126 Calculus 2	4		MAT 1025 Analytical Geometry & Calculus 2	5
MATH 127 Calculus 3	4		MAT 2033 Analytical Geometry & Calculus 3	3
MATH 290 Elementary Linear Algebra	2		No equivalent	
MATH 220 Differential Equations	3		No equivalent	

NATURAL SCIENCES				Core
PHSX 211 & 216 Engineering Physics	5		PHS 2015 College Physics: w/Calc	5 GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PHS 2025 College Physics 2 w/ Calc	5 GE3N
ASTR 191 Contemporary Astronomy	3		No equivalent	GE3N

Interdisciplinary Computing-Biology:**KU Course Requirements****Ft Scott Equivalents**

MATHEMATICS				Core
MATH 125 Calculus	4	MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4	MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4	MAT 2033 Analytical Geometry & Calculus 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		

NATURAL SCIENCES				Core
CHEM 130 Chemistry	5	CHEM 124 & 125 General Chemistry	5	GE3N, GE12
CHEM 135 Chemistry 2	5	CHEM 131 & 132 General Chemistry 2	5	GE3N, GE12
BIOL 150 Prn Molecular/Cellular	5	BIOL 135 Princ of Cell and Molecular Biology	5	GE3N
BIOL 152 Princ of Organismal Biology	5	BIO 1235 Princ of Biology 2	5	GE3N

ETHICS				Core
PHIL 160 Intro to Ethics	3	No equivalent		AE51, GE11, GE3H

Interdisciplinary Computing-Chemistry:**KU Course Requirements****Ft Scott Equivalents**

MATHEMATICS				Core
MATH 125 Calculus	4	MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4	MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4	MAT 2033 Analytical Geometry & Calculus 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		
MATH 220 Differential Equations	3	No equivalent		

NATURAL SCIENCES				Core
CHEM 130 Chemistry	5	CHE 1015 General Chemistry	5	GE3N, GE12
CHEM 135 Chemistry 2	5	CHE 1025 General Chemistry 2	5	GE3N, GE12
PHSX 211 & 216 Engineering Physics	5	PHS 2015 College Physics: w/Calc	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4	PHS 2025 College Physics 2 w/ Calc	5	GE3N
CHEM 330 & 331 Organic Chemistry	5	CHE 2035 Organic Chemistry	5	

Interdisciplinary Computing-Geography:**KU Course Requirements****Ft Scott Equivalents**

MATHEMATICS				Core
MATH 125 Calculus	4	MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4	MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4	MAT 2033 Analytical Geometry & Calculus 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		

NATURAL SCIENCES				Core
PHSX 211 & 216 Engineering Physics	5	PHS 2015 College Physics: w/Calc	5	GE3N, GE11, GE12

Interdisciplinary Computing-Physics:**KU Course Requirements****Ft Scott Equivalents**

MATHEMATICS				Core
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MATH 125 Calculus	4		MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MAT 2033 Analytical Geometry & Calculus 3	3	
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 2015 College Physics: w/Calc	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	5		PHS 2025 College Physics 2 w/ Calc	5	GE3N

Interdisciplinary Computing-Journalism:

KU Course Requirements

Allen Course Equivalents

MATHEMATICS					Core
MATH 125 Calculus	4		MAT 1015 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 1025 Analytical Geometry & Calculus 2	5	
MATH 127 Calculus 3	4		MAT 2033 Analytical Geometry & Calculus 3	3	
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

Ft Scott Equivalents

Goal 1: Critical Thinking and Quantitative Literacy (1 Unit from each outcome)				
Only Interdisciplinary Computing (Geography and Journalism needs to take one of these courses)				
Outcome 1			GE11	
ENGL 210 Intro to Poetry	3		ENG 2223 Intro To Literature: Poetry	3
ENGL 211 Intro to Drama	3		ENG 2213 Intro To Literature: Drama	3
COMS 230 Fundamentals of Debate	3		SPE 1133 Discussion & Debate	3
PHIL 140 Intro to Philosophy	3		PHI 1113 Philosophy Of Life	3
PHIL 148 Reason and Argument	3		PHI 1133 Classical Formal Logic	3
PHSX 114 College Physics I	4		PHS 2065 College Physics	5
PHSX 211/216 General Physics I	4		PHS 2015 College Physics w/Calculus	5
SOC 104 Elements of Sociology	3		SOC 1013 Sociology	3
SOC 160 Social Problems/American Values	3		SOC 1023 Social Problems	3

Goal 2: Communication (3 Units) -two from outcome 1 and one outcome 2				
Outcome 1			GE21	
ENGL 101 Composition	3		ENG 1013 English	3
ENGL 102 Critical Reading and Writing	3		ENG 1023 English	3
ENGL 210 Intro to Poetry	3		ENG 2223 Intro To Literature: Poetry	3
ENGL 211 Intro to Drama	3		ENG 2213 Intro To Literature: Drama	3
Outcome 2			GE22	
COMS 130 Speaker-Audience Communication	3		SPD 121 Public Speaking	3

Goal 3: Breadth of Knowledge (3 Units)-one from each category				
Arts & Humanities			GE3H	
ART 101 Drawing I	3		ART 1013 Drawing & Composition	3
			ENG 2013 American Literature	3
			ENG 2023 American Literature 2	3
ENGL 211 Intro to Drama			ENG 2213 Intro To Literature: Drama	3
ENGL 210 Intro to Poetry			ENG 2223 Intro To Literature: Poetry	3
			ENG 2233 Intro To Lit: American Fiction	3
			ENG 2253 Intro To Lit: Short Story	3
			HIS 2703 Native American History	3

		REL 1043 Life & Thought of Paul	3
REL 104 Intro to Religious Studies	3	REL 1093 Religions of Mankind	3
		REL 1073 Old Testament Life Heritage	3
PHIL 140 Intro to Philosophy	3	PHI 1113 Philosophy Of Life	3
PHIL 148 Reason and Argument	3	PHI 1113 Classical Formal Logic	3
THR 100 Intro to Theatre	3	DRA 1313 Theater Appreciation	3
THR 106 Intro to Acting	3	DRA 1013 Acting	3
HA 150 Western Art History	3	ART 1743 Art History	3
HIST 128 Hist US thrgh Civil War	3	HIS 1013 United States History	3
HIST 129 Hist of US After Civil War	3	HIS 1023 United States History 2	3
		HIS 2013 History of Civilization	3
		HIST 2023 History of Civilization 2	3
HSES 244 Foundations of Physical Education	3	PHE 1013 Intro to Physical Education	3
Social Sciences		GE3S	
COMS 244 Intr Personal Comm	3	SPE 2013 Interpersonal Communication	3
ECON 142 Princ of Microeconomics	3	ECO 1013 Microeconomics	3
ECON 144 Princ of Macroeconomics	3	ECO 2023 Macroeconomics	3
POLS 110 Intro to US Politics	3	POL 1013 American Government	3
PSYC 104 General Psychology	3	PSY 1013 General Psychology	3
		PSY 1023 Developmental Psychology	3
SOC 104 Elements of Sociology	3	SOC 1013 Sociology	3
SOC 220 Sociology of Families	3	SOC 2223 Marriage & The Family	3
ANTH 108 Cultural Anthropology	3	SOC 1113 Cultural Anthropology	3
EPSY S305 Dev and Learning of the Young Child	3	PSY 2243 Child Psychology	3
WGSS 101 Women, Gender and Sexuality Studies	3	SOC 2253 Women in Society	3

Goal 4: Culture and Diversity (2 Units)			
Outcome 1		AE41	
SOC 104 Elements of Sociology	3	SOC 1013 Sociology	3
SOC 160 Social Problems and American Values	3	SOC 1023 Social Problems	3
SOC 220 Sociology of Families	3	SOC 2223 Marriage and Family	3
WGSS 101 Women, Gender, and Sexuality Studies	3	SOC 2253 Women in Society	3
AAAS 106 The Black Experience in America	3	HIS 2033 History African American	3
Outcome 2		AE42	
REL 104 Intro to Religious Studies	3	REL 1093 Religions of Mankind	3
GEOG 100 World Regional Geography	3	GEO 1023 World Regional Geography	3
HA 150 Western Art History	3	ART 1743 Art History	3
		HIS 2703 History of Native Americans	3
		REL 1093 Religions of Mankind	3
ANTH 108 Cultural Anthropology	3	SOC 1113 Cultural Anthropology	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