

**Allen County 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](http://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**

**Allen Course Equivalents**

<b>MATHEMATICS</b>					<b>Core</b>
MATH 125 Calculus	4		MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4		MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4		MAT 225 Calculus with Analytic Geometry 3	3	
MATH 220 Differential Equations	3		No equivalent		
MATH 290 Elementary Linear Algebra	2		No equivalent		

**ECONOMICS & electives**

**Core**

<b>Choose One:</b>					
ECON 142 Princ of Microeconomics	3		ECO 207 Microeconomics	3	GE3S
ECON 144 Princ of Macroeconomics	3		ECO 208 Macroeconomics	3	GE3S
<b>Electives-12 hours total of Humanities &amp; Social Science (must be GE3H, AE41, AE42 + one extra GE3H or GE3S)</b>					

**NATURAL SCIENCES**

**Core**

PHSX 211 & 216 Engineering Physics	5		PSC 204 Engineering Physics	5	GE3N, GE11, GE12
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**Computer Science:**

**KU Course Requirements**

**Allen Course Equivalents**

<b>MATHEMATICS</b>					<b>Core</b>
MATH 125 Calculus	4		MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4		MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4		MAT 225 Calculus with Analytic Geometry 3	3	
MATH 290 Elementary Linear Algebra	2		No equivalent		

**Humanities & Social Science electives**

**Core**

<b>Electives-12 hours total of Humanities &amp; Social Science (must include 2 GE3H and 2 GE3S)</b>					
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**NATURAL SCIENCES**

**Core**

PHSX 211 & 216 Engineering Physics	5		PSC 204 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PSC 205 Engineering Physics 2	5	GE3N
<b>Choose One:</b>					
CHEM 130 Chemistry	5		CHE 125 Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHE 136 Chemistry 2	5	GE12, GE3N
GEOG 104 & 105 Princ Physic Geography	5		No equivalent	5	GE3N
GEOL 101 How the World Works	3		PSC 154 Physical Geology	5	GE3N

**Electrical Engineering:**

**KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4	MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4	MAT 225 Calculus with Analytic Geometry 3	3	
MATH 220 Differential Equations	3	No equivalent		
MATH 290 Elementary Linear Algebra	2	No equivalent		

<b>ECONOMICS &amp; electives</b>				<b>Core</b>
<b>Choose One:</b>				
ECON 142 Princ of Microeconomics	3	ECO 207 Microeconomics	3	GE3S
ECON 144 Princ of Macroeconomics	3	ECO 208 Macroeconomics	3	GE3S
<b>Electives-12 hours total of Humanities &amp; Social Science (must be GE3H, AE41, AE42 + one extra GE3H or GE3S)</b>				

<b>NATURAL SCIENCES</b>				<b>Core</b>
PHSX 211 & 216 Engineering Physics	5	PSC 204 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics		PSC 205 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5	CHE 125 Chemistry	5	GE12, GE3N

**Information Technology:****KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 101 College Algebra	3	MAT 105 College Algebra	3	GE12
<b>OR</b>				
MATH 104 Precalculus Mathematics	5	MAT 120 Precalculus Math	5	GE12
MATH S365 Elementary Statistics	3	* T 115 Statistics	3	GE12

<b>ECONOMICS &amp; electives</b>				<b>Core</b>
ECON 104 Intro to Economics	4	No equivalent		GE3S
ENGL 362 Technical Writing	3	COL 105 Technical Writing	3	

<b>NATURAL SCIENCES-Choose one</b>				<b>Core</b>
PHSX 211 & 216 Engineering Physics	5	PSC 204 Engineering Physics	5	GE3N, GE11, GE12
CHEM 130 Chemistry	5	CHE 125 Chemistry	5	GE12, GE3N
BIOL 150 Prn Molecular/Cellular	4	BIO 150 Biology	5	GE3N

**Interdisciplinary Computing-Astronomy:****KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4	MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4	MAT 225 Calculus with Analytic Geometry 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		
MATH 220 Differential Equations	3	No equivalent		

<b>NATURAL SCIENCES</b>				<b>Core</b>
PHSX 211 & 216 Engineering Physics	5	PSC 204 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4	PSC 205 Engineering Physics 2	5	GE3N
ASTR 191 Contemporary Astronomy	3	PSC 180 Astronomy	4	GE3N

**Interdisciplinary Computing-Biology:**

**KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4	MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4	MAT 225 Calculus with Analytic Geometry 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		

<b>NATURAL SCIENCES</b>				<b>Core</b>
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	BIO 150 Biology	5	GE3N
BIOL 152 Princ of Organismal Biology	5	BIO 210 Biology 2	5	GE3N

<b>ETHICS</b>				<b>Core</b>
PHIL 160 Intro to Ethics	3	HUM 105 Ethics	3	AE51, GE11, GE3H

**Interdisciplinary Computing-Chemistry:****KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4	MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4	MAT 225 Calculus with Analytic Geometry 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		
MATH 220 Differential Equations	3	No equivalent		

<b>NATURAL SCIENCES</b>				<b>Core</b>
CHEM 130 Chemistry	5	CHE 125 Chemistry	5	GE3N, GE12
CHEM 135 Chemistry 2	5	CHE 136 Chemistry 2	5	GE3N, GE12
PHSX 211 & 216 Engineering Physics	5	PSC 204 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4	PSC 205 Engineering Physics 2	5	GE3N
CHEM 330 & 331 Organic Chemistry	5	CHE 265 Organic Chemistry 1	5	

**Interdisciplinary Computing-Geography:****KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MAT 123 Calculus with Analytic Geometry	5	GE12
MATH 126 Calculus 2	4	MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4	MAT 225 Calculus with Analytic Geometry 3	3	
MATH 290 Elementary Linear Algebra	2	No equivalent		

<b>NATURAL SCIENCES</b>				<b>Core</b>
PHSX 211 & 216 Engineering Physics	5	PSC 204 Engineering Physics	5	GE3N, GE11, GE12

**Interdisciplinary Computing-Physics:****KU Course Requirements****Allen Course Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MAT 123 Calculus with Analytic Geometry	5	GE12

MATH 126 Calculus 2	4		MAT 125 Calculus with Analytic Geometry 2	5	
MATH 127 Calculus 3	4		MAT 225 Calculus with Analytic Geometry 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		PSC 204 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PSC 205 Engineering Physics 2	5	GE3N

### Interdisciplinary Computing-Journalism:

### KU Course Requirements

### Allen Course Equivalents

MATHEMATICS				Core
MATH 125 Calculus	4		MAT 123 Calculus with Analytic Geometry	5 GE12
MATH 126 Calculus 2	4		MAT 125 Calculus with Analytic Geometry 2	5
MATH 127 Calculus 3	4		MAT 225 Calculus with Analytic Geometry 3	3
MATH 290 Elementary Linear Algebra	2		No equivalent	

Engineering Courses:				Core
EECS 140 Intro to Digital Logic Design	4		No equivalent	
EECS 168 Programming	4		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

### Allen Course Equivalents

Goal 1: Critical Thinking and Quantitative Literacy (2 Units)				
Only Interdisciplinary Computing (Geography and Journalism needs to take one of these courses)				
Outcome 1			GE11	
ENGL 210 Intro to Poetry	3		COL 132 Poetry	3
ENGL 209 Intro to Fiction	3		COL 135 Fiction	3
PHIL 160 Intro to Philosophy	3		HUM 125 Philosophy	3
PHSX 211 General Physics	3		PSC 204 Engineering Physics	5
SOC 104 Elements of Sociology	3		SOC 102 Sociology	3
SOC 160 Social Problems and American Values	3		SOC 205 Social Problems	3
BLAW S301 Legal Aspects of Business	3		BUS 221 Business Law	3

Goal 2: Communication (3 Units) -two from outcome 1 and one outcome 2				
Outcome 1			GE21	
ENGL 101 Composition	3		COL 101 Composition	3
ENGL 102 Critical Reading and Writing	3		COL 102 Composition	3
ENGL 210 Intro to Poetry	3		COL 132 Poetry	3
ENGL 209 Intro to Fiction	3		COL 135 Fiction	3
Outcome 2			GE22	
COMS 130 Speaker-Audience Communication	3		COM 101 Public Speaking	3

Goal 3: Breadth of Knowledge (3 Units) -one from each category				
Arts & Humanities			GE3H	
			ART 101 Art Appreciation	3
REL 104 Intro to Religious Studies	3		HUM 135 World Religions	3
ART 101 Drawing	3		ART 126 Drawing	3
ENGL 210 Intro to Poetry	3		COL 132 Poetry	3
ENGL 209 Intro to Fiction	3		COL 135 Fiction	3
			COL 211 Early American Literature	3

		COL 222 Modern American Literature	3
		COL 230 Early British Literature	3
CLSX 148 Greek and Roman Mythology	3	COL 250 Intro to Mythology	3
HIST 128 History to Civil War	3	HIS 108 American History to 1865	3
HIST 129 History after Civil War	3	HIS 109 American History from 1865	3
HIST 121 Modern Latin America	3	HIS 250 Latin America History	3
PHIL 160 Intro to Philosophy	3	HUM 125 Philosophy	3
PHIL 160 Intro to Ethics	3	HUM 105 Ethics	3
THR 101 Intro to Theatre	3	THE 101 Theatre Appreciation	3
THE 131 Acting	3	THR 106 Intro to Acting	3
HSES 244 Intro PE and Sports Science	3	HPE 101 Intro to PE	3
<b>Social Sciences</b>		<b>GE3S</b>	
ANTH 108 Intro Cultural Anthropology	3	ANT 111 Cultural Anthropology	3
JOUR 101 Media in Society	3	COM 201 Mass Media in Society	3
COMS 244 Intro to Interpersonal Communication	3	COM 211 Interpersonal Communication	3
EPSY S305 Early Childhood Growth & Development	3	ECE 101 Early Childhood Growth	3
ECON 142 Microeconomics	3	ECO 207 Microeconomics	3
ECON 144 Macroeconomics	3	ECO 208 Macroeconomics	3
POLS 170 International Relations	3	POL 250 Intro to International Relations	3
POLS 110 Intro to US Politics	3	POL 111 American Govern	3
PSYC 104 Intro to Psychology	3	PSY 101 General Psychology	3
SOC 104 Elements of Sociology	3	SOC 102 Sociology	3
BLAW S301 Legal Aspects of Business	3	BUS 221 Business Law	3

<b>Goal 4: Culture and Diversity (2 Units)</b>			
<b>Outcome 1</b>		<b>AE41</b>	
SOC 104 Elements of Sociology	3	SOC 102 Sociology	3
SOC 160 Social Problems and American Values	3	SOC 205 Cont Social Problems	3
<b>Outcome 2</b>		<b>AE42</b>	
ANTH 108 Intro Cultural Anthropology	3	ANT 111 Cultural Anthropology	3
GEOG 100 World Regional Geography	3	GEO 104 Princ of Geography	3
REL 104 Intro to Religious Studies	3	HUM 135 World Religions	3
POLS 170 International Relations	3	POL 250 Intro to International Relations	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