

# Colby 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](http://www.physics.engr.ku.edu)

Transfer students must have at least a 2.5 GPA and proof of competency in calculus.

### Requirements (all students):

#### Aerospace Systems:

#### **KU Course Requirements**

#### **Colby Equivalents**

<b>MATHEMATICS</b>					<u>Core</u>
MATH 125 Calculus	4		MA 220 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MA 230 Analytical Geometry & Calculus	5	
MATH 127 Calculus 3	4		MA 240 Analytical Geometry & Calculus	5	
MATH 290 Elementary Linear Algebra	2		No Equivalent		
MATH 220 Differential Equations	3		No Equivalent		

<b>NATURAL SCIENCES</b>				<u>Core</u>
PHSX 211 & 216 Engineering Physics	5		PH 208 Engineering Physics	5 GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PH 228 Engineering Physics 2	5 GE3N
CHEM 130 Chemistry	5		CH 177 Chemistry (w/lab)	5 GE12, GE3N

#### Chemical Systems:

#### **KU Course Requirements**

#### **Colby Equivalents**

<b>MATHEMATICS</b>					<u>Core</u>
MATH 125 Calculus	4		MA 220 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MA 230 Analytical Geometry & Calculus	5	
MATH 127 Calculus 3	4		MA 240 Analytical Geometry & Calculus	5	
MATH 290 Elementary Linear Algebra	2		No Equivalent		

<b>NATURAL SCIENCES</b>				<u>Core</u>
PHSX 211 & 216 Engineering Physics	5		PH 208 Engineering Physics	5 GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics	4		PH 228 Engineering Physics 2	5 GE3N
CHEM 130 Chemistry	5		CH 177 Chemistry (w/lab)	5 GE12, GE3N
CHEM 135 Chemistry 2	5		CH 178 Chemistry 2 (w/lab)	5 GE3N, GE12
CHEM 330 & 331 Organic Chemistry	5		CH 225 Organic Chemistry	5

#### Digital Electronic Systems:

#### **KU Course Requirements**

#### **Colby Equivalents**

<b>MATHEMATICS</b>					<u>Core</u>
MATH 125 Calculus	4		MA 220 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4		MA 230 Analytical Geometry & Calculus	5	
MATH 127 Calculus 3	4		MA 240 Analytical Geometry & Calculus	5	
MATH 290 Elementary Linear Algebra	2		No Equivalent		
MATH 220 Differential Equations	3		No Equivalent		

<b>NATURAL SCIENCES</b>				<u>Core</u>
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PHSX 211 & 216 Engineering Physics	5	PH 208 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics		PH 228 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5	CH 177 Chemistry (w/lab)	5	GE12, GE3N

**Electromechanical Control Systems:****KU Course Requirements****Colby Equivalents**

<b>MATHEMATICS</b>				<b>Core</b>
MATH 125 Calculus	4	MA 220 Analytical Geometry & Calculus	5	GE12
MATH 126 Calculus 2	4	MA 230 Analytical Geometry & Calculus	5	
MATH 127 Calculus 3	4	MA 240 Analytical Geometry & Calculus	5	
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	PH 208 Engineering Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics		PH 228 Engineering Physics 2	5	GE3N
CHEM 130 Chemistry	5	CH 177 Chemistry (w/lab)	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****Colby Equivalents**

<b>Goal 2: Communication (3 Units) -two from outcome 1 and one outcome 2</b>				
<b>Outcome 1</b>			<b>GE21</b>	
ENGL 101 Composition	3	EN 176 English Composition		3
ENGL 102 Critical Reading and Writing	3	EN 177 English Composition 2		3
ENGL 211 Intro to Drama	3	DR 208/EN 208 Intro To Dramatic Literature		3
<b>Outcome 2</b>			<b>GE22</b>	
COMS 130 Speaker-Audience Communication	3	SP 101 Fundamentals Of Oral Com		3
COMS 130 Speaker-Audience Communication	3	SP 176 Public Speaking		3

<b>Goal 3: Breadth of Knowledge (3 Units) -one from each category</b>				
<b>Arts &amp; Humanities</b>			<b>GE3H</b>	
		AR 175 Art Appreciation		3
ART 101 Drawing I	3	AR 103 Drawing I		3
REL 104 Intro to Religious Studies	3	RE 104 World Religions		3
		LI 176 World Literature		3
		EN 202 American Literature		3
		EN 203 American Literature 2		3
		EN 211 American Frontier Literature		3
		EN 215 American Short Story		3
		EN 217 Bible as Literature		3
		RE 104 World Religions		3
ENGL 211 Intro to Drama	3	DR 208/EN 208 Intro To Dramatic Lit		3
PHIL 140 Intro to Philosophy	3	PI 101 Introduction To Philosophy		3
PHIL 148 Reason and Argument	3	PI 200 Philosophical Thought and Logic		3
PHIL 160 Ethics	3	PI 276 Intro to Ethics		3
THR 100 Intro to Theatre	3	DR 120 Theatre Appreciation		3
HA 150 Western Art History	3	AR 176 Art History		3
HIST 128 Hist US through Civil War	3	HI 176 American History To 1865		3
HIST 129 Hist of US After Civil War	3	HI 177 American History 1865 To Pres		3
HIST 115 Europe 1789-present	3	HI 122 Contemporary European History		3
		HI 140 History of Classical Cultures		3
		HI 104 World Civilization I		3
		HI 204 World Civilization II		3

HSES 244 History and Foundations of Physical Education	3		PE 198 History and Fdns of PE	3
<b>Social Sciences</b>			<b>GE3S</b>	
EPSY S305 Development and Learning of the Child	3		PS 280 Child Development	3
ANTH 108 Cultural Anthropology	3		AN 177 Cultural Anthropology	3
COMS 244 Intr Personal Comm	3		SP 106 Interpersonal Communications	3
ECON 142 Princ of Microeconomics	3		EC 277 Principles Of Microeconomics	3
ECON 144 Princ of Macroeconomics	3		EC 276 Principles Of Macroeconomics	3
JOUR 101 Media and Society	3		JO 165 Intro to Mass Media	3
POLS 110 Intro to US Politics	3		PO 176 American Government	3
PSYC 104 General Psychology	3		PS 176 General Psychology	3
SOC 104 Elements of Sociology	3		SO 176 Intro To Sociology	3
			PS 276 Developmental Psychology	3
SOC 220 Sociology of Families	3		SO 182 Sociology Of Families	3
			BU 177 Human Relations	3
WGSS 101 Intro to Women, Gender and Sexuality Studies	3		SO 135 Women's Studies	3

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

<b>Outcome 1</b>			<b>AE41</b>	
SOC 104 Elements of Sociology	3		SO 176 Intro To Sociology	3
SOC 160 Social Problems and American Values	3		SO 186 Social Problems	3
SOC 220 Sociology of Families	3		SO 182 Sociology of Families	3
WGSS 101 Intro to Women, Gender and Sexuality St	3		SO 185 Women's Studies	3
<b>Outcome 2</b>			<b>AE42</b>	
			AR 101 Art Survey	3
HA 150 Western Art History I	3		AR 176 Art History I	3
REL 104 Intro to Religious Studies	3		RE 104 World Religions	3
GEOG 100 World Regional Geography	3		GE 176 World Regional Geography	3
ANTH 108 Cultural Anthropology	3		AN 177 Cultural Anthropology	3
			AN 176 Native American Cultures	3
			LI 176 World Literature	3
			RE 104 World Religions	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