Allen County 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 2.5 GPA and proof of competency in calculus.

Requirements (all students):

Aerospace Systems:

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		
MATH 220 Differential Equations	3		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
CHEM 130 Chemistry	5		CHE 125 Chemistry	5	GE12, GE3N

Chemical Systems:

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		
MATH 220 Differential Equations	3		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
CHEM 130 Chemistry	5		CHE 125 Chemistry	5	GE12, GE3N
CHEM 135 Chemistry 2	5		CHE 136 Chemistry 2	5	GE3N, GE12
CHEM S330 & S331 Organic Chemistry	5		CHE 265 Organic Chemistry 1	5	

Digital Electronic Systems:

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		
MATH 220 Differential Equations	3		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
CHEM 130 Chemistry	5		CHE 125 Chemistry	5	GE12, GE3N

Electromechanical Control Systems:

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		
MATH 220 Differential Equations	3		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
CHEM 130 Chemistry	5		CHE 125 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			Allen Course Equivalents	
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
Social Sciences			**GE3S**	
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 Commination	3		COM 211 Interpersonal Commination	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

Goal 4: Culture and Diversity (2 Units)				
Outcome 1			**AE41**	
SOC 104 Elements of Sociology	3		SOC 102 Sociology	3
SOC 160 Social Problems and American Values	3		SOC 205 Cont Social Problems	3
Outcome 2			**AE42**	
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