

# Highland Community College

## Transfer Program to University of Kansas

### B.S. in Aerospace Engineering

Number to call at KU for advising: (785) 864-4267

Website: <http://www.ae.engr.ku.edu/>

Timely completion of prerequisite courses is imperative due to tight sequencing of major courses. Consult the KU catalog and seek KU advising early.

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

### Aerospace Engineering Requirements:

#### **KU Course Requirements**

#### **Highland Equivalents**

<b>ENGLISH (2 courses)</b>					<u>Core</u>
ENGL 101 Composition	3		ENG 101 College English I	3	GE21
ENGL 102 Critical Reading and Writing	3		ENG 102 College English II	3	GE21

<b>MATHEMATICS</b>					<u>Core</u>
MATH 125 Calculus	4		MAT 106 Calculus	5	GE12
MATH 126 Calculus 2	4		MAT 110 Calculus 2	5	
MATH 127 Calculus 3	4		MAT 201 Calculus 3	3	
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		PS 215 College Physics	5	GE3N, GE11, GE12
PHSX 212 & 236 Engineering Physics			PS 216 College Physics 2	5	GE3N
CHEM 130 Chemistry	5		PS 111 College Chemistry	5	GE12, GE3N

<b>ECONOMICS- Choose one</b>					<u>Core</u>
ECON 142 Princ of Microeconomics	3		BUS 204 Microeconomics	3	GE3S
ECON 144 Princ of Macroeconomics	3		BUS 203 Macroeconomics	3	GE3S

#### **Humanities and Social Sciences depth requirement:**

When Choosing Core Courses **TWO** courses must be from the same KU Department. This can be accomplished within the core outcomes: **GE3H, GE3S, AE41 and AE42**. For example: *PHIL 160 (AE41) and PHIL 140 (GE3H)*

#### **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**

#### **Highland Equivalents**

<b>Goal 2: Communication (3 Units) -two from outcome 1 and one from outcome 2</b>					
<b>Outcome 1</b>					<b>GE21</b>
ENGL 101 Composition	3		ENG 101 College English I		3
ENGL 102 Critical Reading and Writing	3		ENG 102 College English II		3
ENGL 211 Intro to Drama	3		ENG 207 Narrative Film		3
HWC 204 Western Civilization	3		HIS 204 Readings Western Civ		3
<b>Outcome 2</b>					<b>GE22</b>
COMS 130 Speaker-Audience Communication	3		SP 106 Public Speaking		3

<b>Goal 3: Breadth of Knowledge (3 Units) -one from each category</b>					
<b>Arts &amp; Humanities</b>					<b>GE3H</b>
HA 150 History of Western Art	3		A 201 Art History		3

			A 101 Art Appreciation	3
ART 101 Drawing I	3		A 107 Drawing I	3
ANTH 110 Intro to Archaeology	3		ANT 100 Intro to Archaeology	3
			ENG 202 American Literature I	3
			ENG 207 Narrative Film	3
			ENG 208 Intro To The Short Story	3
			ENG 209 American Literature II	3
			ENG 210 World Literature I	3
			ENG 211 World Literature II	3
			ENG 212 English Literature I	3
			ENG 213 English Literature II	3
			ENG 205 Old Testament Literature	3
			M 103 Music History and Appreciation	3
			M 223 History of Jazz	3
HSES 244 Physical Ed and Sport Studies	3		PE 123 Principles of Education	3
HSES 244 Physical Ed and Sport Studies	3		PE 111 History/Principles of Physical Education	3
			PHI 105 Religions Of The World	3
PHIL 140 Intro to Philosophy	3		PHI 101 Introduction To Philosophy	3
PHIL 160 Intro to Ethics	3		PHI 102 Intro to Ethics	3
PHMD 101 Fundamentals of Photography	3		PHO 101 Basic Photography	3
THR 100 Intro to Theatre	3		TH 105 Intro To Dramatics	3
			TH 108 History & App Of Theatre Arts	3
THR 106 Intro to Acting	3		TH 110 Acting I	3
HIST 128 Hist US thrgh Civil War	3		HIS 101 United States History I	3
HIST 129 Hist of US After Civil War	3		HIS 102 United States History II	3
<b>Social Sciences</b>			<b>GE3S</b>	
COMS 244 Intr Personal Comm	3		SP 105 Interpersonal Communication	3
ECON 142 Princ of Microeconomics	3		BUS 204 Microeconomics	3
SOC 110 American Identities	3		SOC 106 Diversity and Inclusiveness	3
ECON 144 Princ of Macroeconomics	3		BUS 203 Macroeconomics	3
POLS 110 Intro to US Politics	3		POL 100 United States Government	3
EPSY S305 Dev and Learning of Young Child	3		PSY 202 Child Psychology	3
	3		PSY 205 Human Growth & Development	3
PSYC 104 General Psychology	3		PSY 101 General Psychology	3
SOC 104 Elements of Sociology	3		SOC 101 General Sociology	3
	3		POL 101 Intro To Political Science	3
ANTH 100 General Anthropology	3		ANT 112 General Anthropology	3
SOC 220 Sociology of Families	3		SOC 102 Marriage and the Family	3
SW Social Work, Soc Welfare in US Society	3		SOC 104 Intro to Social Work	3

#### Goal 4: Culture and Diversity (1 Unit from each outcome)

<b>Outcome 1</b>			<b>AE41</b>	
SOC 160 Intro to Social Problems	3		SOC 210 Social Problems	3
SOC 110 American Identities	3		SOC 106 Diversity and Inclusiveness	3
SOC 104 Elements of Sociology	3		SOC 101 General Sociology	3
<b>Outcome 2</b>			<b>AE42</b>	
HA 150 History of Western Art	3		A 201 Art History	3
ANTH 100 General Anthropology	3		ANTH 112 General Anthropology	3
GEOG 100 World Regional Geography	3		GEO 212 World Regional Geography	3
			M 162 World Music	3
			PHI 105 Religions Of The World	3
HWC 204 Western Civilization	3		HIS 204 or 103 Readings in Western Civ	3
HWC 205 Western Civilization 2	3		HIS 205 Readings in Western Civ 2	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