



The Associate of Arts degree (A.A.) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the A.A. may select courses that satisfy both the A.A. degree requirements and lower division requirements for a bachelor's degree at four-year institutions. The 33 hours of electives within the A.A. allows students to complete additional general education and lower division courses required for specific majors. The A.A. degree requires completion of 64 credit hours, the maximum number of hours from a community college that will be applied toward a bachelor's degree at most four-year schools. Meeting with a JCCC counselor is strongly recommended for selection of appropriate courses.

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

- ❖ KU's School of Engineering will accept up to 64 transferable credit hours. In addition to meeting course requirements, the last 30 hours must be completed at KU. A total of 131 credit hours is required for the B.S. in Chemical Engineering; 132 credit hours for the B.S. in Petroleum Engineering.
- ❖ Transfer students will have their applications to Engineering School evaluated on a case-by-case basis and must have a minimum GPA of 2.5 to be considered.
- ❖ Either math ACT score greater than 22 or proof of competency in calculus by earning a grade of "C" or better.
- ❖ Application deadline for the School of Engineering is May 1 for fall and summer; December 1 for spring.
- ❖ Pass/Fail Policy: Not acceptable
- ❖ Only courses with grades of "C" or higher at JCCC will apply toward the degree at KU.

KU REQUIREMENTS

JCCC EQUIVALENTS

I. English (9 hours)						
ENGL 101	Composition		3	___ ENGL 121	Composition I	3
ENGL 102	Critical Reading and Writing		3	___ ENGL 122	Composition II	3
Plus a third English course			3	___ ENGL 130	Introduction to Literature	3
*Technical Writing Not Allowed				___ ENGL 217	Literature by Women	3
Any one course -----				___ ENGL 227	Introduction to Poetry	3
				___ ENGL 230	Intro to Fiction	3
				___ ENGL 231	American Prose	3
				___ ENGL 232	Children's Literature	3
				___ ENGL 235	Drama as Literature	3
				___ ENGL 236	British Literature I	3
				___ ENGL 237	British Literature II	3
				___ ENGL 243	Literature of Sci Fiction	3
				___ ENGL 244	Literature of American Popular Music	3
				___ ENGL 250	World Masterpieces	3
				___ ENGL 254	Masterpieces of Cinema	3
				___ ENGL 256	American Poetry	3

II. Humanities and Social Sciences (12 hours)

JCCC courses that fulfill Humanities, Social Sciences and Contemporary Issues requirements are listed in both columns below. Select at least one course from (A) Humanities, one course from (B) Social Sciences and one course from (C) Contemporary Issues. The departments are separated by the broken lines.

A. Humanities (minimum 3 hours)

___ ENGL 130	Introduction to Literature	3
___ ENGL 140	Writing for Interactive Media	3
___ ENGL 205	Bible as Literature	3
___ ENGL 215	U.S. Latino and Latina Literature	3
___ ENGL 217	Literature by Women	3
___ ENGL 227	Introduction to Poetry	3
___ ENGL 230	Intro to Fiction	3
___ ENGL 231	American Prose	3
___ ENGL 232	Children's Literature	3
___ ENGL 235	Drama as Literature	3
___ ENGL 236	British Literature I	3
___ ENGL 237	British Literature II	3
___ ENGL 243	Literature of Sci Fiction	3
___ ENGL 244	Literature of American Popular Music	3
___ ENGL 250	World Masterpieces	3
___ ENGL 254	Masterpieces of Cinema	3
___ ENGL 256	American Poetry	3

___ HIST 120	Local and Kansas History	3
___ HIST 125	Western Civilization I	3
___ HIST 126	Western Civilization II	3
___ HIST 128	Medieval History	3
___ HIST 129	Early Modern Europe	3
___ HIST 130	European Hist since 1789	3
___ HIST 132	History of Africa	3
___ HIST 135	Eastern Civilization	3
___ HIST 137	African American Studies	3
___ HIST 140	U.S. History to 1877	3
___ HIST 141	U.S. History from 1877	3
___ HIST 143	Ancient Greece, the Near East and Egypt	3
___ HIST 150	Islam: Religion and Civilization	3
___ HIST 151	World History I	3
___ HIST 152	World History II	3
___ HIST 160	Modern Russian History	3
___ HIST 162	Modern Latin America	3
___ HIST 164	Japan: The Changing Tradition	3
___ HIST 167	Intro to History: Japan	3
___ HIST 195	History of the Middle East	3

___ ANTH 135	American Indian Artistic Tradition	3
___ ANTH 144	Archaeology	3
___ ARTH 180	Art History: Ancient to Renaissance	3
___ ARTH 182	Art History: Renaissance to Modern	3
___ ARTH 184	Art History: Twentieth Century	3
___ ARTH 186	Art History: Intro to Asian Art	3

___ HUM 122	Introduction to Humanities	3
___ HUM 137	Intro to Russian Culture	3
___ HUM 145	Intro to World Humanities I	3
___ HUM 146	Intro to World Humanities II	3
___ HUM 164	Civilization	3
___ HUM 167	Intro to Japanese Culture	3

___ PHIL 121	Introduction to Philosophy	3
___ PHIL 124	Logic and Critical Thinking	3
___ PHIL 142	History of Asian Philosophy	3
___ PHIL 143	Ethics	3
___ PHIL 154	History of Ancient Philosophy	3
___ PHIL 161	Elementary Symbolic Logic	3

___ PHIL 176	Philosophy of Religion	3
___ PHIL 210	History of Modern Philosophy	3
___ REL 120	Exploring World Religions	3
___ REL 125	Religions of the East	3
___ REL 126	Religions of the West	3
___ REL 150	Islam: Religion and Civilization	3

___ THEA 120	Introduction to Theater	3
___ THEA 131	Voice and Speech	3

___ MUS 121	Intro to Music Listening	3
___ MUS 125	Intro to Jazz Listening	3
___ MUS 126	Intro to World Music	3
___ MUS 128	History of Rock & Roll	3

B. Social Sciences (minimum 3 hours)

___ ANTH 125	Cultural Anthropology	3
___ ANTH 130	World Cultures	3
___ ANTH 134	Native Americans	3
___ ANTH 142	World Prehistory	3
___ ANTH 150	People and Cultures of Mesoamerica	3
___ ANTH 153	The Anthropology of the Paranormal & Supernatural	3

___ POLS 122	Political Science	3
___ POLS 124	American National Government	3
___ POLS 126	State and Local Government	3
___ POLS 132	Comparative Government	3
___ POLS 135	International Relations	3

___ PSYC 121	Applied Psychology	3
___ PSYC 130	Intro to Psychology	3
___ PSYC 200	Industrial and Organizational Psyc	3
___ PSYC 205	Human Sexuality	3
___ PSYC 210	Methodology in Social Science	3
___ PSYC 220	Social Psychology	3
___ PSYC 221	Environmental Psychology	3
___ PSYC 230	Personality Theory	3

___ SOC 122	Intro to Sociology	3
___ SOC 125	Social Problems	3
___ SOC 131	Marriage and the Family	3
___ SOC 152	Perspectives on Aging	3
___ SOC 165	Chinese Soc: Past and Present	3
___ SOC 205	Sociology of Food	3

___ PSYC 215	Child Development	3
___ PSYC 218	Human Development	3

___ WGS 201	Global Women's Studies	3
___ WGS 220	The Many Women of Islam	3

C. Contemporary Issues (minimum 3 hours)

The following courses are available at JCCC to meet this requirement. A number of additional courses are available at KU.

___ JOUR 120	Mass Media and Society	3
___ POLS 135	International Relations	3

NOTE: Up to a maximum of 6 hours of foreign language coursework count toward the humanities requirement if student is NOT native speaker of that language.

KU REQUIREMENTS**JCCC EQUIVALENTS**

III. Mathematics (15-18 hours)			
MATH 121	Calculus I	5	
MATH 122	Calculus II	5	
Chemical Engineering majors may select one of the following options (A or B). Petroleum Engineering majors must select option B.			
<u>Option A</u>			
MATH 223	Vector Calculus	3	
MATH 290	Elementary Linear Algebra	2	
MATH 320	Elementary Differential Equations	3	
<u>Option B</u>			
MATH 220	Differential Equations	3	
MATH 290	Elementary Linear Algebra	2	
_____	MATH 241	Calculus I	5
_____	MATH 242	Calculus II <u>AND</u>	5
_____	MATH 243	Calculus III	5
_____	MATH 243	Calculus III	5
_____	MATH 246	Elementary Linear Algebra	3
No equivalent			
_____	MATH 254	Differential Equations	4
_____	MATH 246	Elementary Linear Algebra	3
NOTE: JCCC students must take MATH 242 AND MATH 243 to satisfy the requirement for MATH 122 at KU. Students taking MATH 243 at JCCC will have met the requirement for MATH 223 Vector Calculus as well.			

IV. Basic Sciences			
<u>Physics</u>			
PHSX 211	General Physics I	4	
PHSX 212	General Physics II	4	
<u>Chemistry</u>			
CHEM 184	Foun of Chemistry I	5	
CHEM 188	Foun of Chemistry II	5	
CHEM 622	Fund of Organ Chem (for Petr Engr only)	3	
CHEM 624/625	Organic Chemistry (for Chem Engr only)	3/2	
_____	PHYS 220	Engineering Physics I	5
_____	PHYS 221	Engineering Physics II	5
_____	CHEM 124/125	Gen Chemistry I/Lab	4/1
_____	CHEM 131/132	Gen Chem II/Lab	4/1
† _____	CHEM 140	Prin of Organ Chem (for Petr Engr only)	5
† _____	CHEM 220	Organic Chemistry I (for Chem Engr only)	5
_____	GEOS 130	Gen Geology (Petr Engr only)	5
_____	GEOL 101	Intro to Geology (Petr Engr only)	5
† Satisfies the requirement but does not count toward junior/senior hours.			

V. Engineering			
C&PE 121	Intro to Computers in Engr	3	
Engineering Electives -- 12 hours Chemical Engineering 13 hours Petroleum Engineering			
No equivalent			
_____	ENGR 251	Statics <u>AND</u>	3
_____	ENGR 254	Dynamics	3

RECOMMENDED PROGRAM AT JCCC							
<u>FIRST SEMESTER</u>				<u>SECOND SEMESTER</u>			
ENGL 121	Composition I	3		ENGL 122	Composition II	3	
MATH 241	Calculus I	5		MATH 242	Calculus II	5	
CHEM 124/125	Gen Chemistry/Lab	4/1		CHEM 131/132	Gen Chemistry II/Lab	4/1	
	Humanities/Soc Sci/Contemp Issues course	<u>3</u>			Humanities/Soc Sci/Contemp Issues course	<u>3</u>	
		16				16	
<u>THIRD SEMESTER</u>				<u>FOURTH SEMESTER</u>			
PHYS 220	Engineering Physics I	5		PHYS 221	Engr Physics II	5	
CHEM 220	Organic Chem I (Chem Engr) <u>OR</u>	5		CHEM 140	Prin Organic Chem (Petr Engr)	5	
GEOS 130	General Geology (Petr Engr)	5			Humanities or Soc Sci (Chem Engr)	3	
	Humanities, Social Science (Chem Engr)	3		MATH 246	Elementary Linear Algebra	<u>3</u>	
MATH 243	Calculus III	<u>5</u>				16	
		18					

* NOTE: It is to the student's advantage to take KU's CPE 211 Material and Energy Balances before the junior year at KU. (Available in KU summer session.) It is the STUDENT'S RESPONSIBILITY to check for updates to all transfer information. This transfer program is provided as a service and is updated at least annually. Degree requirements at the four-year colleges are subject to change by those institutions.