



JOHNSON COUNTY COMMUNITY COLLEGE

**Transfer Program to the University of Kansas  
Liberal Arts and Sciences, Biology, B.S.**

2008-2010 Catalog

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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.

- ❖ In addition to completing general education requirements for the B.S. in Biology, students must select one of four options for the major: cell biology, ecology and evolutionary biology, genetics or organismal biology.
- ❖ Only grades of C or better are accepted in transfer credit toward a degree in the College of Liberal Arts and Sciences.
- ❖ Sixty-four credit hours may be transferred to KU from community colleges. Students should be aware that 45 junior/ senior credit hours are required for completion of the four-year degree; 30 of those hours must be at KU.

**KU Requirements****JCCC Equivalents**

<b>I. English (3 courses)</b>					
101 English Composition	3	___ ENGL	121	Composition I	3
102 Critical Reading and Writing	3	___ ENGL	122	Composition II	3
Plus a third English requirement satisfied by taking one of the following: 203, 205, 209, 210 or 211.	3	___ ENGL	130	Introduction to Literature	3
		___ ENGL	217	Literature by Women	3
		___ ENGL	222	Advanced Composition	3
		___ ENGL	227	Introduction to Poetry	3
		___ ENGL	230	Introduction to Fiction	3
		___ ENGL	231	American Prose	3
		___ ENGL	235	Drama as Literature	3
		___ ENGL	243	Literature of Sci Fiction	3
Any one of these courses will satisfy this requirement.		† ___ ENGL	250	World Masterpieces	3
		___ ENGL	254	Masterpieces of Cinema	3
		___ ENGL	256	American Poetry	3

**II. Oral Communication (one course)**

(Exemption is granted through the speech department by petition--one year of high school work in speech/debate with B or better or approved coursework and special experiences may substitute.)

One of the following is required:					
COMS 130 Speaker-Audience Communication	3	___ SPD	121	Public Speaking	3
COMS 230 Fundamentals of Debate	3	___ SPD	130	Elementary Debate	3
PHIL 148 Introduction to Logic	3	___ PHIL	124	Logic and Critical Thinking	3

Courses may not be used to satisfy more than one area requirement.

OVER

**III. Humanities, Social Sciences and/or Foreign Language**

One course in both humanities and social sciences is required. Select three additional courses from humanities, social sciences or foreign language. Not more than one course may be taken in each subgroup (1, 2, 3 or 4) of JCCC humanities and social science courses below and on the back of this sheet.

**A. Humanities****1. Historical Studies (HT)**

___ ANTH 142	World Prehistory	3
___ ANTH 144	Archaeology	3
___ HIST 128	Medieval History	3
___ HIST 129	Early Modern Europe	3
___ HIST 130	European History since 1789	3
___ HIST 140	US History to 1877	3
___ HIST 141	US History since 1877	3
___ HIST 162	Modern Latin America	3
___ HIST 160	Modern Russian History	3
___ HUM 137	Intro to Russian Culture	3
___ ARTH 180	Art History: Ancient to Renaissance	3
___ ARTH 184	Art History: Twentieth Century	3
___ ARTH 186	Art History: Intro to Asian Art	3
___ MUS 121	Intro to Music Listening	3
___ MUS 125	Intro to Jazz Listening	3

**2. Literature and the Arts (HL)**

___ HUM 122	Intro to Humanities	3
___ HUM 145	Intro to World Humanities I	3
___ HUM 155	Classical Mythology	3
† ___ HIST 135	Eastern Civilization	3
† ___ ENGL 250	World Masterpieces	3
___ THEA 120	Introduction to Theater	3

**3. Philosophy and Religion (HR)**

___ PHIL 121	Intro to Philosophy	3
___ PHIL 143	Ethics	3
___ PHIL 154	History of Ancient Philosophy	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

**B. Social Sciences****1. Culture and Society (SC)**

___ ANTH 125	Cultural Anthropology	3
___ GEOS 145	World Regional Geography	3
___ HIST 137	African American Studies	3
___ SOC 122	Intro to Sociology	3
___ SOC 131	Marriage and the Family	3
† ___ SOC 165	Chinese Soc: Past & Present	3

**3. Public Affairs (SF)**

___ ECON 132	Survey of Economics	3
___ ECON 230	Economics I	3
___ ECON 231	Economics II	3
___ POLS 122	Political Science	3
___ POLS 124	American National Government	3
___ POLS 126	State and Local Government	3
___ POLS 132	Intro to Comp Government	3
___ POLS 135	International Relations	3
___ SOC 125	Social Problems	3

**2. Individual Behavior (SI)**

___ PSYC 130	Intro to Psychology	3
___ PSYC 215	Child Development	3
___ PSYC 218	Human Development	3
___ SPD 120	Interpersonal Communication	3

**C. Foreign Language**

___ Any JCCC FL prefix 120-141		5
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**KU Requirements****JCCC Equivalents**

<b>IV. Western Culture (2 courses)</b>					
HWC 204	Western Civilization I	3	___ HIST 125	Western Civilization I	3
HWC 205	Western Civilization II	3	___ HIST 126	Western Civilization II	3

**V. Major Requirements**

Students should complete General Chemistry I and II in the first year if possible. The following requirements are common to all the options and can be satisfied at JCCC.

<b>General Biology Requirements</b>					
BIOL 150	Prin. of Molecular and Cellular Biol.	4	___ BIOL 135	Prin. of Cell and Molecular Biol.	4
BIOL 152	Prin. of Organismal Biology	4	___ BIOL 150	Biology of Organisms	5
<b>General Science Requirements</b>					
CHEM 184	Foundations of Chemistry I	5	___ CHEM 124/125	Gen. Chemistry I/Lab	4/1
CHEM 188	Foundations of Chemistry II	5	___ CHEM 131/132	Gen. Chemistry II/Lab	4/1

## KU Requirements

## JCCC Equivalents

### VI. Individual Options

In addition to the common general biology and general science requirements above, the following are requirements for the individual options, some of which may be satisfied at JCCC.

<b>A. Cell Biology</b>				JCCC equivalents listed on page 2			
<u>General Biology Requirements (21 total hours)</u>							
<u>General Science Requirements (21-22 hours)</u>							
CHEM 624/625	Organic Chemistry I/Lab	3/2		* ____	CHEM 220	Organic Chemistry I	5
CHEM 626	Organic Chemistry II	3		* ____	CHEM 221	Organic Chemistry II	5
MATH 121	Calculus I <u>OR</u>	5		____	MATH 241	Calculus I <u>OR</u>	5
MATH 115	Calculus I <u>AND</u>	3		____	MATH 231	Business & Applied Calculus I <u>AND</u>	3
MATH 116	Calculus II	3		____	MATH 232	Business & Applied Calculus II	3
PHSX 114	College Physics <u>AND</u>	5		____	PHYS 130	General Physics I <u>AND</u>	5
PHSX 115	College Physics II <u>OR</u>	5		____	PHYS 131	General Physics II <u>OR</u>	5
PHSX 211	General Physics I <u>AND</u>	4		____	PHYS 220	Engineering Physics I <u>AND</u>	5
PHSX 212	General Physics II	4		____	PHYS 221	Engineering Physics II	5
<u>Cell Biology Requirements (19 hours)</u>				No equivalents			
<u>Seminar and Lab Requirements (4 hours)**</u>				No equivalents			
<b>B. Ecology and Evolutionary Biology</b>				JCCC equivalents listed on page 2			
<u>General Biology Requirements (17-18 total hours)</u>							
<u>General Science Requirements (25-28 total hours)</u>							
MATH 121	Calculus I <u>OR</u>	5		____	MATH 241	Calculus I <u>OR</u>	5
MATH 115	Calculus I <u>AND</u>	4		____	MATH 231	Business & Applied Calculus I <u>AND</u>	3
MATH 116	Calculus II	3		____	MATH 232	Business & Applied Calculus II	3
Two of the following courses:				Two of the following courses:			
PHYS 114	College Physics I	4		____	PHYS 130	General Physics I	5
PHYS 115	College Physics II	4		____	PHYS 131	General Physics II	5
ATMO 105	Introductory Meteorology	3		No equivalent			
EECS 138	Introduction to Computing	3		No equivalent			
<u>Ecology and Evolutionary Biology Requirements (18 hours)</u>				No equivalents			
<u>General Biology Elective and Lab Requirements (13 hours)**</u>				No equivalents			
<b>C. Genetics</b>				JCCC equivalents listed on page 2			
<u>General Biology Requirements (24 total hours)</u>							
<u>General Science Requirements (18-19 hours)</u>							
CHEM 624/625	Organic Chemistry I/Lab	3/2		* ____	CHEM 220	Organic Chemistry I	5
MATH 121	Calculus I <u>OR</u>	5		____	MATH 241	Calculus I <u>OR</u>	5
MATH 115	Calculus I <u>AND</u>	3		____	MATH 231	Business & Applied Calculus I <u>AND</u>	3
MATH 116	Calculus II	3		____	MATH 232	Business & Applied Calculus II	3
PHSX 114	College Physics I <u>AND</u>	5		____	PHYS 130	General Physics I <u>AND</u>	5
PHSX 115	College Physics II <u>OR</u>	5		____	PHYS 131	General Physics II <u>OR</u>	5
PHSX 211	General Physics I <u>AND</u>	4		____	PHYS 220	Engineering Physics I <u>AND</u>	5
PHSX 212	General Physics II	4		____	PHYS 221	Engineering Physics II	5
<u>Genetics Requirements (15 hours)</u>				No equivalents			
<u>General Biology Elective and Lab Requirements (8 hours)**</u>				No equivalents			
<b>Note:</b> Students choosing the Genetics option who plan to attend graduate school (particularly those interested in applying to Molecular Techniques) or medical school should also enroll in:							
CHEM 626/627	Organic Chemistry II/Lab	3/2		____	CHEM 221	Organic Chemistry II	5

\* Will satisfy the requirement but will not count as junior/senior credit hours.

\*\* Biology electives must be chosen from designated courses numbered 400 or higher.

## KU Requirements

## JCCC Equivalents

VI. <u>Individual Options</u> (continued)		JCCC Equivalents	
D. <u>Neurobiology</u>		JCCC equivalents listed on page 2	
<u>General Biology Requirements (21-23 total hours)</u>			
<u>General Science Requirements (31-32 total hours)</u>			
CHEM 624/625	Organic Chemistry I/Lab 3/2	* _____	CHEM 220 Organic Chemistry I 5
MATH 121	Calculus I <u>OR</u> 5	_____	MATH 241 Calculus I <u>OR</u> 5
MATH 115	Calculus I <u>AND</u> 3	_____	MATH 231 Business & Applied Calculus I <u>AND</u> 3
MATH 116	Calculus II 3	_____	MATH 232 Business & Applied Calculus II 3
PHSX 114	College Physics I <u>AND</u> 4	_____	PHYS 130 General Physics I <u>AND</u> 5
PHSX 115	College Physics II <u>OR</u> 4	_____	PHYS 131 General Physics II <u>OR</u> 5
PHSX 211	General Physics I <u>AND</u> 4	_____	PHYS 220 Engineering Physics I <u>AND</u> 5
PHSX 212	General Physics II 4	_____	PHYS 221 Engineering Physics II 5
<u>Neurobiology Requirements (19 hours)</u>		No equivalents	
<u>Neurobiology Electives (9 hours)**</u>			
E. <u>Organismal Biology</u>		JCCC equivalents listed on page 2	
<u>General Biology Requirements (18 total hours)</u>			
<u>General Science Requirements (28-29 total hours)</u>			
CHEM 624/625	Organic Chemistry I/Lab 3/2	* _____	CHEM 220 Organic Chemistry I 5
MATH 121	Calculus I <u>OR</u> 5	_____	MATH 241 Calculus I <u>OR</u> 5
MATH 115	Calculus I <u>AND</u> 3	_____	MATH 231 Business & Applied Calculus I <u>AND</u> 3
MATH 116	Calculus II 3	_____	MATH 232 Business & Applied Calculus II 3
PHSX 114	College Physics I <u>AND</u> 5	_____	PHYS 130 General Physics I <u>AND</u> 5
PHSX 115	College Physics II <u>OR</u> 5	_____	PHYS 131 General Physics II <u>OR</u> 5
PHSX 211	General Physics I <u>AND</u> 4	_____	PHYS 220 Engineering Physics I <u>AND</u> 5
PHSX 212	General Physics II 4	_____	PHYS 221 Engineering Physics II 5
<u>Organismal Biology Requirements (24 hours)</u>		No equivalents	
<u>General Biology Elective and Lab Requirements (10 hours)**</u>		No equivalents	

\* Will satisfy the requirement but will not count as junior/senior credit hours.

\*\* Biology electives must be chosen from designated courses numbered 400 or higher.

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.