



Johnson County Community College  
Transfer Program to MidAmerica Nazarene University  
**College of Arts and Sciences**  
**Biology B.S. degree**  
**2019-20 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 elective hours 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 60 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.**

- If students have completed an AA or AS degree, they are only required to fulfill the Spiritual Development area of the general education requirements.
- Certain majors may require specific classes in the general education core. Students should check the major's specific section of the current MNU catalog for requirements and with a faculty advisor from that department to determine applicability of transfer courses.
- Upper-division credit will NOT be given for lower division courses that are transferred in as equivalents to upper division courses.
- Courses from the Learning Center, Academic Achievement Center, and Learning Strategies will not transfer to MNU. These courses are considered remedial or developmental. With special approval from the Kresge Academic Support Center at MNU, required developmental courses at MNU could be waived with satisfactory completion of courses from these areas. No college credit will be granted for these courses.

**This guide covers the following departments, majors and Emphasis areas:**

**Department of Natural, Health, and Mathematical Sciences**

- **Biology**

<b>Foundational Courses – 3 to 11 semester hours</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Freshman Studies	FRST 1101 Freshman Seminar OR FRST 1203 Freshman Seminar Honors OR Sophomore standing	No equivalent
English (3 hours)	ENGL 1503 English Composition I OR ACT English score of 26 or higher	ENGL 121 Composition I
Math (3 hours)	MATH 1223 College Algebra OR ACT math score of 28 or higher	MATH 171 College Algebra
Physical Education (2 hours)	HLEX, PHED, SPMT	Any 100 level activity HPER course

<b>Faith Integration – 9 semester hours</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Biblical Literature (6 hours)	BLIT 1103 Discovering the Old Testament BLIT 1203 Discovering the New Testament	No equivalent  No equivalent
Theology (3 hours)	THEO 2003 Christian Theology & Worldview	No equivalent

<b>Formational Thinking - 3 semester hours</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Math (3 hours)	MATH 2503 Engaging with Math & Data OR MATH 3503 Probability and Statistics OR MATH 3703 Mathematical Statistics	MATH 181 Statistics No equivalent No equivalent

<b>Discovering Creation - 9 semester hours</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Science (3 hours)	GNSC 1303 Engaging with Science	No Equivalent
Psychology (3 hours)	PSYC 1103 General Psychology OR PSYC 2513 Lifespan Development	PSYC 130 Introduction to Psychology PSYC 218 Human Development
Fine Arts (3 hours)	FNAR 1303 Exploring Art OR FNAR 1403 Exploring Theatre OR FNAR 1503 Exploring Music	HUM 122 Intro. to the Humanities THEA 120 Intro to Theatre HUM 122 Intro. to the Humanities

<b>Communication &amp; Self Expression - 6 semester hours</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Public Speaking (3 hours)	COMM 1303 Public Speaking COMM 1103 Strategic Communication	SPD 121 Public Speaking No equivalent
English (3 hours)	ENGL 1703 English Composition II	ENGL 122 Composition II

<b>Global Citizenship - 3 semester hours</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
History or Sociology (3 hours)	HIST 1203 U.S. History to 1877 OR HIST 1303 U.S. History since 1877 OR HIST 2103 World History to 1500 OR  HIST 2203 World History from 1500 OR  SOCI 1003 Introduction to Sociology	HIST 140 U.S. History to 1877 HIST 141 U.S. History since 1877 HIST 151 World History I: Traditional World HIST 152 World History II: Modern World SOC 122 Introduction to Sociology

<b>Exploratory Courses - 9 semester hours (Choose 3 courses or 9 semester hours; no more than six hours in a particular area)</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Formational Thinking Core Courses	CRIM 1003 Survey of Criminal Justice (3) GNSC 3003 Human Genetics (3) HIST 1403 History of Now (3) MUTH Fundamentals of Music Theory (1) PHIL 2003 Ethics (3) PHIL 2103 Intro. to Philosophy (3) THEA 2202 Technical Theatre & Stagecraft (3)	ADMJ 121 Intro. to Administration of Justice (3) BIOL 205 General Genetics (4) No Equivalent MUS 123 Intro. to Music Fundamentals (2) PHIL 143 Ethics (3) PHIL 121 Intro. to Philosophy (3) THEA 140 Basic Stagecraft (3)
Communication & Self-Expression Core Courses	ART 1103 Drawing (3) ART 1203 Painting (3) ART 2302 Color (2) ART 2603 Screen Printing (3) ART 3403 Ceramics (3) CHED 2103 Christian Leadership (3) COMM 1403 Digital Photography (3) COMM 1703 Intro. to Human Communication (3) COMM 2303 Interpersonal & Social Communication (3) COMM 2803 Communicating in a Digital World (3) ENGL 2003 Intro to Literature (3) POLS 1103 Introduction to Politics (3) SOCI 2003 Marriage and Family (3) THEA 3203 Acting I (3) APMU 1201 Class Guitar (1) APMU 1501 Keyboard Skills (1) MUEN prefixes may be repeated up to 3 credits (approved choirs).	ART 130 Drawing I (3) ART 135 Painting I (3) ART 129 Design Color (3) No equivalent ART 142 Ceramics I (3) No equivalent PHOT 128 Digital Photography (3) SPD 125 Personal Communication (3)  SPD 120 Interpersonal Communication (3) No equivalent  ENGL 130 Intro to Literature (3) POLS 124 American Nat'l Gov't (3) SOC 131 Sociology of Families (3) THEA 121 Fund. of Acting (3) MUS 226 Applied Guitar I (1) MUS 221 Piano Class I (2)

Global Citizenship Core Courses	COMM 3603 Intercultural Communication (3) FNAR 1203 Music in World Cultures (3) INCS 2103 Arabic: Culture & Language (3) INCS 2203 Chinese: Culture & Language (3) INCS 2503 Spanish: Culture & Language (3) GEOG 1003 World Geography (3)  HIST 3103 The American Civil War (3) HIST 3403 History of Baseball (3) HIST 3603 Vietnam War in Reality and Film (3) HIST 3703 African American History (3) HIST 3903 Latin American History (3) HIST 4203 The World at War (3) PHIL 2203 Religions of the World (3)  PSYC 2303 Understanding Multicultural Behavior (3) SOCI 2103 Cultural & Social Anthropology (3)	SPD 180 Intercultural Communication (3) MUS 126 Intro. to World Music (3)  No equivalent  No equivalent  No equivalent  GEOS 145 World Regional Geography (3) No Equivalent No Equivalent No Equivalent  No Equivalent  No Equivalent No Equivalent REL 120 Exploring World Religions (3) No Equivalent  ANTH 125 Cultural Anthropology (3)
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<b>Biology Courses</b>		
<b>Area</b>	<b>MNU Requirement</b>	<b>JCCC equivalent</b>
Biology Chemistry	BIOL 2105 Microbiology CHEM 1104 General Chemistry I  CHEM 2104 General Chemistry II	BIOL 230 Microbiology CHEM 124/125 General Chemistry I and Lab CHEM 131/132 General Chemistry II and Lab
Mathematics	MATH 1313 Trigonometry OR MATH 1405 Calculus I	MATH 172 Trigonometry MATH 241 Calculus I
Physics	PHYS 1004 Physics I for the Health Sciences AND PHYS 1104 Physics II for the Health Sciences OR PHYS 2004 Physics I for Scientists & Engineers AND PHYS 2104 Physics II for Scientists & Engineers	PHYS 130 College Physics I  PHYS 131 College Physics II  PHYS 220 Engineering Physics I  PHYS 221 Engineering Physics II