

**KRSN BIO1020 Biology I for Majors with Lab**  
**KRSN BIO1021 Biology I for Majors**  
**KRSN BIO1022 Biology I Lab for Majors**

For specific Institutional Transfer Articulation information visit: [kansasregents.org/institutional-transfer-information](http://kansasregents.org/institutional-transfer-information).

<b>Institution</b>	<b>Course ID</b>	<b>Course Title</b>	<b>Credit Hours</b>
Allen CC	BIO 150	Biology I (cellular)	5
Barton CC	LIFE 1402	Principles of Biology	5
Butler CC	BI 120 or BI 215	Majors Biology I (Animal) or Majors Biology I (Cell)	5 5
Cloud County CC	SC 110	Principles of Biology	5
Coffeyville CC	BIOL 206	Biology I: Cell and Molecular Biology	5
Colby CC	BI 177	Biology I with Lab	5
Cowley CC	BIO 4125	General Biology I	5
Dodge City CC	BIO 111	Cellular Biology and Genetics	5
Fort Scott CC	BIO 1225	Principles of Biology I	5
Garden City CC	BIOL 105	Principles of Biology	5
Highland CC	BS 101	College Biology	5
Hutchinson CC	BI 104	Biology I	5
Independence CC	BIO 1115	Biology I: Principles of Cellular and Molecular Biology	5
JCCC	BIOL 135	Principles of Cell and Molecular Biology	4
KCKCC	BIOL 0135	Principles of Cell and Molecular Biology	4
Labette CC	BIOL 120	Biology I	5
Neosho County CC	BIOL 251 & BIOL 252	Biology I and Biology I Lab	3 & 2
Pratt CC	BIO 125	General Biology	5
Seward County CC	BI 1505	Biology 1 for Majors	5
FHTC	Not Offered	Not Offered	
Manhattan Tech	Not Offered	Not Offered	
NCK Tech	Not Offered	Not Offered	
NWKTC	Not Offered	Not Offered	
SATC	Not Offered	Not Offered	
WATC	BIO 130	Biology I	5
ESU	GB 140 & GB 141	Principles of Biology and Principles of Biology Lab	3 & 1
FHSU	BIOL 180 & BIOL 180L	Principles of Biology and Principles of Biology Lab	4 & 0
KSU	BIOL 198	Principles of Biology	4
PSU	BIOL 211	Principles of Biology I	4
KU	BIOL 150	Principles of Cell and Molecular Biology	4
WSU	BIOL 210 & BIOL 210L	General Biology I and General Biology I Lab	4 & 0
Washburn	BI 102	General Cellular Biology	5

***Biology 1 for Majors with Lab/Biology I for Majors/ Biology I Lab for Majors  
BIO1020/BIO1021/BIO1022 CORE OUTCOMES***

Course Effective Date: Summer 2016

Outcome Approval Date: Fall 2015

Next Outcome Review Date: Fall 2020

Upon completion of the above listed course, students will have a command of the following:

1. Demonstrate an understanding of the nature of science
  - a. Scientific processes
  - b. Scientific methods
2. Demonstrate an understanding of the levels of organization and emergent properties of life
  - a. Basic biological chemistry
  - b. Structure and function of biological molecules
  - c. Cellular structure and functions
3. Demonstrate an understanding of bioenergetics
  - a. Enzyme activity
  - b. Cellular respiration
  - c. Photosynthesis
4. Demonstrate an understanding of cellular reproduction
  - a. Binary fission
  - b. Mitosis
  - c. Meiosis
5. Identify the basic principles of Mendelian and molecular genetics, and relate these to the basic principles of Natural Selection and evolution.
  - a. Classical genetics
  - b. Molecular genetics
    - i. DNA replication
    - ii. Gene expression and regulation
6. Design and perform experiments in a laboratory setting.
  - a. Microscopy
  - b. Quantitative measurement skills incorporating the metric system
  - c. Analytical and statistical skills including presenting and/or interpreting graphs and tables
  - d. Experience with living organisms in the laboratory