

# B.S. BIOLOGY

Use with your Degree Progress Report (DPR).

## MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY (MCDB)

**KU CORE REQUIREMENTS** See <https://kucore.ku.edu/fulfilling-the-core> for approved KU Core courses and/or experiences.

Goal 1. Critical Thinking & Quantitative Literacy	Outcome 1 (Can be satisfied by degree reqs.)	Outcome 2 (Can be satisfied by degree reqs.)
Goal 2. Communication	Outcome 1 <input type="checkbox"/> <input type="checkbox"/>	Outcome 2 <input type="checkbox"/>
Goal 3. Breadth of Knowledge	Arts & Humanities <input type="checkbox"/> Social Sciences <input type="checkbox"/>	Natural Sciences (Can be satisfied by degree reqs.)
Goal 4. Culture & Diversity	Outcome 1 <input type="checkbox"/> Outcome 2 <input type="checkbox"/>	
Goal 5. Social Responsibility & Ethics	<input type="checkbox"/>	
Goal 6. Integration & Creativity	(Can be satisfied by degree reqs.)	

**GENERAL SCIENCE REQUIREMENTS (34–38 h)**

BIOL 105 Biology Orientation Seminar (1)	<input type="checkbox"/>	MATH 115 & 116 Calculus I & II (6) <b>OR</b> MATH 125 Calculus I (4)	<input type="checkbox"/> ( <input type="checkbox"/> )
CHEM 130 Foundations of Chemistry I (5)	<input type="checkbox"/>	BIOL 570 Intro to Biostatistics (4) <b>OR</b> MATH 365 Elementary Statistics (3) <b>OR</b> PSYC 210 Statistics Psychological Research (3)	<input type="checkbox"/>
CHEM 135 Foundations of Chemistry II (5)	<input type="checkbox"/>	PHSX 114 & 115 College Physics I & II (8) <b>OR</b>	<input type="checkbox"/> <input type="checkbox"/>
CHEM 330 Organic Chemistry I (3)	<input type="checkbox"/>	PHSX 211+216 & 212+236 Gen. Physics I & II (9)	
CHEM 331 Organic Chemistry I Lab (2)	<input type="checkbox"/>		
CHEM 335 Organic Chemistry II (3)	<input type="checkbox"/>		

**MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY REQUIREMENTS (34–35 h)**

BIOL 150/151 Prin Molecular & Cell Biol (4)	<input type="checkbox"/>	BIOL 417 Biology of Development (3)	<input type="checkbox"/>
BIOL 152/153 Prin Organismal Biology (4)	<input type="checkbox"/>	BIOL 435 Introduction to Neurobiology (3)	<input type="checkbox"/>
BIOL 350/360 Principles of Genetics (4)	<input type="checkbox"/>	BIOL 600 Introductory Biochemistry, Lectures (3)	<input type="checkbox"/>
BIOL 412 Evolutionary Biology (4)	<input type="checkbox"/>	BIOL 650 Advanced Neurobiology (3) <b>OR</b> BIOL 672 Gene Expression (3) <b>OR</b> BIOL 688 Molecular Biology of Cancer (3)	<input type="checkbox"/>
BIOL 405 Laboratory in Genetics (2) <b>OR</b>	<input type="checkbox"/>	BIOL 599 Senior Seminar: MCDB (1) (must be taken Sr yr)	<input type="checkbox"/>
BIOL 426 Laboratory in Cell Biology (3)	<input type="checkbox"/>		
BIOL 416 Cell Structure and Function (3)	<input type="checkbox"/>		

**MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY ELECTIVE REQUIREMENTS (12 h):** Satisfied by completing 12 hours of BIOL courses numbered 400 or higher, with no more than 3 h of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) applied towards the elective requirement.

BIOL _____ ( __ h)	<input type="checkbox"/>	BIOL _____ ( __ h)	<input type="checkbox"/>
BIOL _____ ( __ h)	<input type="checkbox"/>	BIOL _____ ( __ h)	<input type="checkbox"/>
BIOL _____ ( __ h)	<input type="checkbox"/>	BIOL _____ ( __ h)	<input type="checkbox"/>
BIOL _____ ( __ h)	<input type="checkbox"/>		

- **Completing the minimum General Science and major requirements** set forth above results in **80 overall h** and **46 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in Core/Gen Ed Reqs or General Science Reqs) that are *unique* to that major. **80 h**  **46 Jr/Sr h**
- **At least 120 h** (of which **45 must be Jr/Sr h**—courses numbered 300 or above) **must be completed for graduation.** **120 h**  **45 Jr/Sr h**