

# B.S. MOLECULAR BIOSCIENCES \*

Use this check sheet with your Degree Progress Report (DPR).

To learn about requirements for admission to the major, please visit our online course catalog page: <http://www2.ku.edu/~distinction/cgi-bin/admission368>

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

Goal 1. Critical Thinking & Quantitative Literacy	Outcome 1 <input type="checkbox"/>	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	<input type="checkbox"/>	

**BS GENERAL EDUCATION REQUIREMENTS** Focus on completing KU Core reqs first. Refer to your DPR and talk with a biology advisor.

**GENERAL SCIENCE REQUIREMENTS (36–38 h)**

CHEM 130 Foundations of Chemistry I (5)	<input type="checkbox"/>	MATH 115 & 116 Calculus I & II (6) <b>OR</b> MATH 121 Calculus I (5)	<input type="checkbox"/> ( <input type="checkbox"/> )
CHEM 135 Foundations of Chemistry II (5)	<input type="checkbox"/>	BIOL 570 Intro Biostatistics (3) <b>OR</b> MATH 365 Elementary Statistics (3) <b>OR</b> PSYC 210 Statistics Psychol Research (3)	<input type="checkbox"/>
CHEM 330 Organic Chemistry I (3)	<input type="checkbox"/>	PHSX 114 & 115 College Physics I & II (8) <b>OR</b>	<input type="checkbox"/> <input type="checkbox"/>
CHEM 331 Organic Chemistry I Lab (2)	<input type="checkbox"/>	PHSX 211+216 & 212+236 Gen. Physics I & II (9)	
CHEM 335 Organic Chemistry II (3)	<input type="checkbox"/>		
CHEM 336 Organic Chemistry II Lab (2)	<input type="checkbox"/>		

**MOLECULAR BIOSCIENCES REQUIREMENTS (29 h)**

BIOL 150 Prin Molecular & Cell Biol (4)	<input type="checkbox"/>	BIOL 416 Cell Structure & Function (3)	<input type="checkbox"/>
BIOL 152 Prin Organismal Biology (4)	<input type="checkbox"/>	BIOL 430 Molecular Biology Laboratory (3)	<input type="checkbox"/>
BIOL 350 Principles of Genetics (3)	<input type="checkbox"/>	BIOL 599 Senior Seminar: Molecular Biosciences (1) ( <i>must be taken Sr yr; offered only at Edwards campus</i> )	<input type="checkbox"/>
BIOL 400 Fundamentals Microbiology (3)	<input type="checkbox"/>	BIOL 600 Introductory Biochemistry, Lectures (4)	<input type="checkbox"/>
BIOL 402 Fund Microbiology Lab (2)	<input type="checkbox"/>		
BIOL 405 Laboratory in Genetics (2)	<input type="checkbox"/>		

**MOLECULAR BIOSCIENCES ELECTIVE, SEMINAR, & LABORATORY REQUIREMENTS (11 h):** BIOL courses numbered 400 or higher, including  $\geq 2$  h of lab credit and  $\geq 2$  h of seminar/topics course (BIOL 419, 420, 701). No more than 3 h of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement, with no more than 2 h of BIOL 424 being applied towards the laboratory requirement.

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

- **Completing the minimum General Science and major requirements** set forth above results in **76 overall h** and **42 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. **76 h**  **42 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**

\* **This degree is offered at the Edwards campus only.** Jr/Sr level BIOL courses for this degree must be completed at the Edwards campus. Major Declaration Intent forms for B.S. Molecular Biosciences must be signed by an Edwards campus advisor. Contact Dan Mueller at (913) 897-8659 (x4-8659) for more information.