

Biology, B.S. (120 Units)

Valid for Catalog Years: 2018/2019 to Present

*Official planning guide approved by the College of Science & Math

For assistance or to schedule an advising appointment, please contact the

CSM Advising and Resources Center
at 559-278-4150, Science I 136

Department of Biology:
559-278-2001, Science I 106

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	15	15-16	14-15	15-16	16-20	16-18	15-19	14-18
Milestones								
General Education	A2 (3 Units) Written Communication *Must pass with a C or better	A1 (3 Units) Oral Communication *Must pass with a C or better	C2 (3-4 Units) Humanities	D1 (3 Units) American History	D2 (3 Units) American Government	D3 (3 Units) Social Science	E1 (3 Units) Lifelong Understanding & Self Development	IC (3-4 Units) Arts & Humanities
	A3 (3 Units) Critical Thinking *Must pass with a C or better	C1 (3-4 Units) Arts			IB (3 Units) Physical Universe & Its Life Forms	C1/C2 (3-4 Units) Arts or Humanities	ID (3-4 Units) Social, Political, & Economic Institutions	
Major	GE Area B1 CHEM 1A (3 Units) Physical Sciences [Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL] *Not open to students with credit in CHEM 1B	GE Area B2 BIOL 1A (4 Units) Life Sciences	CHEM 128A (3 Units) [Pre-Req: CHEM 1B or 8 (C or better) or instructor permission] or CHEM 8 (3 Units) [Pre-Req: CHEM 1B or 3A]	CHEM 129A (2 Units) [Pre-Req: CHEM 8 or 128A (C or better; may be taken concurrently)]	CHEM 150 (3 Units) [Pre-Req: CHEM 3B, 8, or 128A & 128B] or CHEM 155A (3 Units) [Pre-Req: CHEM 128B]	BIOL 103 (3 Units) [Pre-Req: BIOL 102; CHEM 150 or 155A]	Diversity Course (3-4 Units) *See course catalog for details	BIOL 105 (3 Units) [Pre-Req: BIOL 101, 102, 103; Senior standing or instructor permission]
	GE Area B3 CHEM 1AL (2 Units) Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	CHEM 1B (3 Units) [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	PHYS 2A (4 Units) [Pre-Req: DS 71, MATH 75, MATH 70, or department permission]	PSYCH 42 (4 Units) or MATH 101 (4 Units) [Pre-Req: MATH 70, 75, or MATH 75A & B] *No credit if taken after MATH 108	BIOL 101 (4 Units) [Pre-Req: BIOL 1A, 1B; PSYCH 42 or MATH 101; MATH 70 or equivalent recommended]	BIOL 104 (1 Unit) [Pre-Req: BIOL 102; BIOL 103 (may be taken concurrently)]	Physiology Course (3-4 Units) *See course catalog for details	Other Laboratory Course (2-4 Units) *See course catalog for details

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Major	GE Area B4 MATH 70 or MATH 75 (4 Units) Quantitative Reasoning *Must pass with a C or better; see course catalog for prerequisite requirements; see footnotes	CHEM 1BL (2 Units) [Pre-Req: CHEM 1B (may be taken concurrently)]	BIOL 1B (3 Units) [Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1BL concurrently]		BIOL 102 (3 Units) [Pre-Req: BIOL 1A, 1B]	Additional Upper Division Course (3-4 Units) *See course catalog for details	Additional Upper Division Course (3-4 Units) *See course catalog for details	Additional Upper Division Course (3-4 Units) *See course catalog for details
			BIOL 1BL (1 Unit) [Pre-Req: First-time enrollees must take BIOL 1B concurrently]			Additional Upper Division Course (3-4 Units) *See course catalog for details		
Additional Graduation Requirements				Elective *CHEM 128B recommended	UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			MI (3 Units) Multicultural/International
				Elective *PHYS 2B recommended				

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FOOTNOTES:

Prerequisites/Corequisites: Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

Grade Requirements: CR/NC grading is not permitted in the Biology major.

General Education: Units in this area may be used toward a double major or minor (see Double Major or departmental minor). Consult the appropriate department chair, program coordinator, or faculty adviser for additional information.

MATH 70: cannot be used to fulfill GE Area B4 if taken prior to Spring 2014.

Electives (0-6 units): Units in this area may be used toward a double major or minor. Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

Upper Division Writing Skills requirement (UDWS): All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."

Substitutions: If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.