

# Biology, B.S. (120 Units)

# Valid for Catalog Years: 2018/2019 to 2019/2020

\*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

	Fresl	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	<b>C2 (3-4 Units)</b> Humanities	<b>D1 (3 Units)</b> American History	<b>D2 (3 Units)</b> American Government	<b>D3 (3 Units)</b> Social Science	E1 (3 Units) Lifelong Understanding & Self Development	<b>IC (3-4 Units)</b> Arts & Humanities	
	A3 (3 Units) Critical Thinking *Must pass with a C or better	<b>C1 (3-4 Units)</b> 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	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				Elective *CHEM 128B recommended	*Upws (0-4 Units)  *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			<b>MI (3 Units)</b> Multicultural/ International
Requirements				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.

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