

Biochemistry, B.S. (120 Units)

Valid for Catalog Years: 2014/2015 to 2017/2018

*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 Chemistry: 559-278-2103, Science I 380

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	15	16	17-18	15-17	13-17	15	29-35	
Milestones	CHEM 1A and 1AL	CHEM 1B and 1BL Major Advising	CHEM 128A MATH 75	CHEM 128B BIOL 1A	UDWS BIOL 1B and 1BL PHYS 2A Major Advising	CHEM 102 BIOL 102	CHEM 106(S) CHEM 110A CHEM 155A	
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	A3 (3 Units) Critical Thinking *Must pass with a C or better	C1 (3-4 Units) Arts	C2 (3-4 Units) Humanities		D2 (3 Units) American Government	E1 (3 Units) Lifelong Understanding & Self Development	ID (3-4 Units) Social, Political, & Economic Institutions
	A2 (3 Units) Written Communication *Must pass with a C or better		D1 (3 Units) American History	C1/C2 (3-4 Units) Arts or Humanities		D3 (3 Units) Social Science	IB (3 Units) Physical Universe & Its Life Forms	MI (3 Units) Multicultural/ International
							IC (3-4 Units) Arts & Humanities	
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	CHEM 1B (3 Units) [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	GE Area B2 BIOL 1A (4 Units) Life Sciences	BIOL 1B (3 Units) [Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1BL concurrently]	CHEM 102 (5 Units) [Pre-Req: CHEM 1B (C or better); CHEM 128A]	CHEM 112 (3 Units) [Pre-Req: CHEM 108 or 110A]	CHEM Courses (4-7 Units) Select TWO courses from the following: CHEM 106, 106S, 111, 123, 124, 190, or other approved courses *See course catalog for prerequisite requirements	
	GE Area B3 CHEM 1AL (2 Units) Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	CHEM 1BL (2 Units) [Pre-Req: CHEM 1B (may be taken concurrently)]	CHEM 128A (3 Units) [Pre-Req: CHEM 1B or 8 (C or better) or instructor permission]	BIOL 1BL (1 Unit) [Pre-Req: First-time enrollees must take BIOL 1B concurrently]	CHEM 110A (3 Units) [Pre-Req: MATH 76; CHEM 1B, 8 or 128A; PHYS 2B or 4B; MATH 77 & PHYS 4C recommended]	CHEM 155B (3 Units) [Pre-Req: CHEM 150 or 155A]	BIOL Courses (6-7 Units) Select TWO courses from the following: BIOL 102, 103, 104, 120, or other approved courses *See course catalog for prerequisite requirements	

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Major	GE Area B4 MATH 75 (4 Units) Quantitative Reasoning *See course catalog for prerequisite requirements	MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	PHYS 2B (4 Units) [Pre-Req: PHYS 2A]	CHEM 128B (3 Units) [Pre-Req: CHEM 128A (C or better)]	CHEM 129B (2 Units) [Pre-Req: CHEM 129A; CHEM 128B (may be taken concurrently)]	CHEM 156 (3 Units) [Pre-Req: Senior standing or instructor permission; CHEM 150, 155, or 155A (CHEM 155A may be taken concurrently); CHEM 102 or 105, 129A; UDWS]		
		PHYS 2A (4 Units) [Pre-Req: DS 71, MATH 75, MATH 70, or department permission]		CHEM 129A (2 Units) [Pre-Req: CHEM 8 or 128A (C or better; may be taken concurrently)]	CHEM 155A (3 Units) [Pre-Req: CHEM 128B]			
Electives					UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			Elective

FOOTNOTES:

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

Grade Requirements: Biochemistry majors may not take the following courses for CR/NC grading: BIOL 1A, 1B, 1BL, 102, 103, 104, 120; CHEM 1A, 1AL, 1B, 1BL, 102, 106, 106S, 110A, 111, 112, 123, 124, 128A, 128B, 129A, 129B, 155A, 155B, 156, 190; MATH 75, 76; PHYS 2A, 2B.

Electives (4 units): 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."