



CHEMISTRY MAJOR ADVISEMENT

COURSE	TITLE	CSUDH	CSUF	CSULB	CSULA
BIOL G180	Cell/Dev Biology			BIOL 211 + 212 + 213 (3.3)	
BIOL G182	Zoology				
BIOL G183	Botany				
CHEM G180	General Chemistry A	CHE 110 + 112	CHEM 120A	CHEM 111A	CHEM 1100
CHEM G185	General Chemistry B		CHEM 120B	CHEM 111B	
CHEM G220	Organic Chemistry A		CHEM 301A + 301B + 302 / 306A + 306B*(2.1)	CHEM 220A + CHEM 220B + 223A + 223B (3.1)	
CHEM G225	Organic Chemistry B				
MATH G180	Calculus 1	MATH 191	MATH 150A	MATH 122	MATH 2110
MATH G185	Calculus 2	MATH 193	MATH 150B	MATH 123	MATH 2120
MATH G280	Calculus 3	MAT 211 (1.2)	MATH 250A (2.3)		MATH 2130
MATH G285	Intro Linear Alg/Diff Equ		MATH 250B (2.3)		MATH 2150
MATH G235	Ordinary Differential Equ		MATH 250B (2.3)		
MATH G282	Linear Algebra				
PHYS G120	Intro Physics: Mechanics	PHY 120 (1.1)	PHYS 211 + 211L (2.2)		
PHYS G125	Intro Physics: Elect/Mag	PHY 122 (1.1)	PHYS 212 + 212L (2.2)	PHYS 100A + 100B (3.3)	
PHYS G185	Calc Physics: Mechanics	PHY 130 + 132 + 134* (1.1)	PHYS 225 + 225L (2.2)	PHYS 151 (3.3)	PHYS 2100
PHYS G280	Calc Physics: Elect/Mag	PHY 130 + 132 + 134* (1.1)	PHYS 226 + 226L (2.2)	PHYS 152 (3.3)	PHYS 2200
PHYS G285	Calc Physics: Modern	PHY 130 + 132 + 134* (1.1)	PHYS 227 + 227L (2.2)		
OTHER					

CSU DOMINGUEZ HILLS: BA Chemistry or Biochemistry, BS Chemistry options available.

- 1.1: For BA/BS-Chemistry: PHYS G185 + G280 + G285. BA: Biochemistry, complete PHYS G185 + G280 + G285 or PHYS G120 + G125
- 1.2: Required for BS Chemistry

CSU FULLERTON: BA and BS Chemistry, or BS Biochemistry options available

- 2.1: Students who complete CHEM G220 + G225 will be given subject credit for CHEM 301A+301B+302 or 306A+306B at CSUF. No upper division credit granted.
- 2.2: For BA Chemistry, or BS Biochemistry degree, complete PHYS G120 + G125. For BS Chemistry degree, complete PHYS G185 + G280 + G285
- 2.3: For BS Chemistry option Complete MATH G280 + either MATH G285 or MATH G282 + MATH G235

CSU LONG BEACH: BA Chemistry, BS Chemistry and Biochemistry options available. All majors at this campus are impacted. Please see counselor for admission and selection criteria for this major. Local Admission: 2.5 GPA and completion of CHEM G180 + G185, MATH G180 + G185

- 3.1: Students must complete entire Organic Chemistry sequence for credit (CHEM G220 + G225). Individual course credit not applicable.
- 3.2: Additional Biology requirement for BS Chemistry, BA and BS: Biochemistry - complete BIOL G180 + G182 + G183.
- 3.3: Biochemistry BA: Complete one physics sequence: PHYS G120 + G125 or PHYS G185 + G280.

CSU LOS ANGELES: BS Chemistry and BS Biochemistry available.

CHEMISTRY MAJOR ADVISEMENT

		UCB	UCI	UCLA	UCR	UCSD
COURSE	TITLE					
BIOL G180	Cell/Dev Biology				BIOL 5A+5LA	BILD 1 + 2 + 3 (7.1)
BIOL G182	Zoology				BIOL 5B	
BIOL G183	Botany					
CHEM G180	General Chemistry A	CHEM 1A + 1AL	CHEM M2A + M2LA + M2B + M2LB + M3C	CHEM 20A + 20B + 20L + 30AL*	CHEM 1A + 1LA + 1B + 1LB + 1C + 1LC	CHEM 6A + 6B + 6C + 7L*
CHEM G185	General Chemistry B	CHEM 1B				
CHEM G220	Organic Chemistry A	CHEM 3A + 3AL	CHEM 51A + M52LA + 51B + M52LB 51C + M52LC	CHEM 30A + 30B + 30BL + 30C + 30CL*	CHEM 8A + 8LA + 8B + 8LB + 8C + 8LC	CHEM 40A + 40B + 40C + 43A
CHEM G225	Organic Chemistry B	CHEM 3B + 3BL				
MATH G180	Calculus 1	MATH 1A	MATH 2A	MATH 31A	MATH 9A + 9B + 9C (6.1)	MATH 10A or 20A
MATH 2B	Calculus 2	MATH 1B	MATH 2B	MATH 31B		MATH 10B or 20B
MATH G280	Calculus 3	MATH 53	MATH 2D	MATH 32A + MATH 32B	MATH 10A + 10B (6.4)	MATH 10C or 20C
MATH G285	Intro Linear Alg/Diff Equ	MATH 54		MATH 33A	MATH 46 (6.4)	MATH 20D (7.2)
MATH G282	Linear Algebra				MATH 46 (6.4)	MATH 20D (7.2)
PHYS G185	Calc Physics: Mechanics	PHYS 7A	PHYS 7C + 7LC + 7D + 7LD + 7E	PHYS 1A + 1B + 1C + 4BL	PHYS 40A + 40B + 40C	PHYS 2A + 2BL
PHYS G280	Calc Physics: Elect/Mag	PHYS 7B				PHYS 2B + 2CL
PHYS G285	Calc Physics: Modern	PHYS 7C				PHYS 2C + 2DL
OTHER		5.1			6.5	

UC BERKELEY: BA Chemistry in the College of Letters and Science: must complete 1 year of general chemistry, 1 year of organic chemistry, 3 semesters of calculus, 1 semester of physics prior to transfer. For BS Chemistry in College of Chemistry, must complete 1 year general chemistry, 1 year of organic chemistry, 3 semesters of calculus, 1 sem. of physics prior to transfer.

AP Credit: Score of 3 or higher on Calculus AB exam or score of 3 or 4 on Calculus BC exam satisfies Calculus I (MATH 1A) for this major. Score of 5 on the BC Exam satisfied Calculus 1 and 2 for this major (MATH 1A+1B). Completion of IGETC REQUIRED.

5.1: BS degree requires three years of high school foreign language, or CHIN G185 / FREN G185 / SPAN G185. Students that fully complete IGETC will satisfy Reading and Composition, and Foreign Language requirement for College of Chemistry.

UC IRVINE: BS Degree. Optional concentrations in Biochemistry and Chemistry Education with optional Secondary Teaching Certification. Students must complete 1 year general chemistry, 1 year calculus and have a minimum 3.0 GPA. Completion of organic chemistry is highly recommended.

UCLA: BS Degree. Students must complete at minimum: 1 year general chemistry (CHEM G180+G185), 3 semesters of calculus (MATH G280 level), 1st semester of organic chemistry (CHEM G220), and first semester of physics prior to transfer (PHYS G185).

UC RIVERSIDE: BA or BS options available. BA or BS in Biochemistry. Minimum 2.70 GPA required. Students must complete at least 1 year of general chemistry (CHEM G180+G185), 1 year of calculus (MATH G180+G185), and one more year-long sequence of lower- division coursework in organic chemistry, physics, or additional mathematics (MATH G280 + G282 or G285) as part of admission selection criteria. For Biochemistry, mandatory sequences include 1-year of general chemistry, 1 year of organic chemistry, 1 year of calculus, and 1 semester of biology. IGETC is not accepted for this major.

6.1: AP Calculus score of 3, 4, or 5 on the AB exam (or BC Subscore) will satisfy Math 9A. A score of 3 on the BC exam will satisfy Math 9A + 9B. A score of 4, or 5 on the BC exam will satisfy Math 9A + 9B + 9C.

6.2: For BS Chemistry: Complete one sequence from PHYS G185 + G280 + G285 (Preferred) or MATH G280 + G282 or G285.

UC SAN DIEGO: Degrees in Chemistry and Biochemistry: Biochemistry/Chemistry, Chemistry, Chemical Education, Chemical Physics, Environmental Chemistry, Molecular Synthesis, and Pharmacological Chemistry.

7.1: Option to complete BIOL G180 + G182 + G183 or BIOL G180 + G186 to meet this requirement for Biochemistry or Pharmacological Chemistry options.

7.2: Combination of MATH G180 + G185 + G280 + G160 or MATH G180 + G185 + MATH G280 + G282 or MATH 285 to complete math sequence for Biochemistry or Pharmacological Chemistry options. MATH G282 or G285 will meet the MATH 20D requirement.

7.3: ECON G170 is required for Environmental Systems/Environmental Chemistry.