

SAN LUIS OBISPO

Undeted 6/22/21

| Updated 6/22/21 FRESHMAN | | | SOPHOMORE | | | JUNIOR | | | SENIOR | | |
|--|--|---|--|--|---|---|---|--|---|---|---|
| Fall | Winter | Spring | Fall | Winter | Spring | Fall | Winter | Spring | Fall | Winter | Spring |
| Gen Chem for Physical Science & Engineering I | Gen Chem for Physical Science & Engineering II | Gen Chem for Physical Science & Engineering III | | Undergradua CHEM 2 (CHEM | 203 (1) | Undergraduate Seminar II CHEM 303 (1) (CHEM 203; CHEM 218) | | | Undergraduate Seminar III: Senior Project CHEM 403 (1) (CHEM 303 and CHEM 352) | | |
| CHEM 124 (4) [B1 & B3] Calculus I | CHEM 125 (4) (CHEM 124 or AP Chem score of 5) Calculus II | CHEM 126 (4) (CHEM 125 w/min C- or Instr. consent) | Organic Chemistry I CHEM 216 (5) (CHEM 126 or 129 w/min C- or Instr. consent) | Organic Chemistry II CHEM 217 (3) (CHEM 216 w/min C- or Instr. consent; Coreq: CHEM 221) | Organic Chemistry III CHEM 218 (3) (CHEM 217 w/min C- or Instr. consent; Coreq: CHEM 324) | Metabolism CHEM 372 (4) (CHEM 371) | Molecular Biology CHEM 373 (3) (CHEM 371) | Molecular Biology Lab CHEM/BIO 475 (3) (BIO 161; min C- in BIO 351 or CHEM 373 or Instr. consent) | Approved Advanced Biochemistry Elective (3) ⁴ * | Approved Advanced Biochemistry Elective (3) ⁴ * | Approved Advanced Biochemistry Elective (3) ⁴ * |
| MATH 141 (4) * [B4] | MATH 142 (4) (MATH 141 w/min C-) [Area B Elective] Intro to Cell & Molecular Biology BIO 161 (4) (Recon: CHEM 110, 111, 124, or 127) [B2 & B3] Expository Writing :NGL 133/134 (4)** | MATH 143 (4) (MATH 142 w/min C-) General Physics IA PHYS 141 (4) * | Quantitative Analysis CHEM 331 (5) ² (CHEM 126 or 129) General Physics II PHYS 132 (4) (PHYS 131 or HNRS 131 or PHYS 141) | Organic Chemistry Laboratory II CHEM 221 (2) (Coreq: CHEM 217) General Physics III PHYS 133 (4) (PHYS 131 or HNRS 131 or PHYS 141, and MATH 142. Recom: MATH 241) | Organic Chemistry Laboratory III CHEM 324 (2) (Coreq: CHEM 218) Biochemical Principles CHEM 371 (5) (CHEM 217 or 317; and BIO 161. Recom: CHEM 231/331) | Choose one ³ : Protein Techniques Lab CHEM 474 (3) (CHEM 371) OR Gene Expression Lab BIO 476 (3) (BIO/CHEM 475; CHEM 313 or 371) | Physical Chemistry I CHEM 351 (3) (CHEM 126 or 129; MATH 143; PHYS 122 or 132) | Physical Chemistry II CHEM 352 (3) (CHEM 351) Physical Chemistry Lab CHEM 354 (2) (CHEM 231/331. Coreq: CHEM 352) | Physical Chemistry III CHEM 353 (3) (CHEM 352) Choose one: Cell Biology BIO 452 (4) (BIO 351 or CHEM 373; CHEM 216, 312, or 316) OR | | Approved Advanced Biochemistry Elective (3) ⁴ * |
| | Oral Communication COMS 101/102 (4)** [A2] | | | GE (4) ** | GE (4) ** | GE (4) ** | GE (4) ** | Gen Micro I MCRO 224 (5) (BIO 161; CHEM 111, 124, or 127) OR | GE (4) ** | GE (4) ** | |
| Reasoning, Argumentation, & Writing [A3] GE (4) ** COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGS 145 (4)** (Completion of GE Al with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years. Error Election Error Election | | | | | GE (4) ** Graduati | GE (4) ** | Free Elective (4) ¹ | CHEM 432 (3) (CHEM 371; Recom: CHEM 351) | GE (4) ** | Free Elective (3) ¹ | |
| Free Elective (1) ¹ Recom: CHEM 101 | Free Elective | Free Elective (1) ¹ | Free Elective | Free Elective (1) ¹ | | students shoul | mpt to fulfill the requireme d complete the requiremen | at before senior year) | (3-4) ¹ | | |
| 17 | 17 | 17 | 15 | 15 | 14 | 16 | 14 | 16 | 13-14 | 12 | 13 |
| | | | | | | | | | | TOTAL: | 180 |

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

** One course from each of the following GE areas must be completed: A1, A2, A3, Upper-Division B, C1, C2, Lower-Division C, Upper-Division C, D1, D2, Upper-Division D, E, F, and a GE Elective. Upper-Division B, Upper-Division C, and Upper-Division D should be taken only after Junior standing is reached (90 units). Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: Upper-Division B, C1, Upper-Division C, D1, D3, or E.

¹ A maximum of 16 units of elective credit may be required for the major to reach the 180 unit requirement to graduate. Excess units of AP Test credit may be applied to elective credit. The Chemistry Dept strongly recommends taking CHEM 101 (1) in your first quarter. Also, it is suggested that you take supplemental workshops (SCM 150) along with available Math/Science courses in your first year.

² Students should take CHEM 331 as soon as possible after completing CHEM 126.

³ The Biochemistry/Chemistry Department recommends CHEM 474 be taken as the Advanced Lab option. Excess units count as approved Advanced Biochemistry electives. ⁴ Select 12 units from Advanced Biochemistry Electives. This is the default curriculum for students who do not declare a concentration. At least two courses must be

chosen from List A (see catalog), including one lecture. Consult with advisor.

