

SAN LUIS OBISPO

| Updated 6'23/2021<br>FRESHMAN   |  |  |   | SOPHOMORE  |  | JUNIOR   |   |   | SENIOR   |   |  |
|---|--|--|---|--|--|--|---|---|--|---|--|
| Fall  | Winter   | Spring   | Fall  | Winter   | Spring   | Fall   | Winter  | Spring  | Fall   | Winter  | Spring   |
| Gen Chem for<br>Physical Science &<br>Engineering I<br>CHEM 124 (4)   | Gen Chem for<br>Physical Science &<br>Engineering II<br>CHEM 125 (4) | Gen Chem for<br>Physical Science &<br>Engineering III<br>CHEM 126 (4)              |   | Undergraduate Seminar I<br>CHEM 203 (1)<br>(CHEM 126)  |  | Undergraduate Seminar II<br>CHEM 303 (1)<br>(CHEM 203; CHEM 218)                                   |   |   | Undergraduate Seminar III: Senior Project<br>CHEM 403 (1)<br>(CHEM 303 and CHEM 352) |   |  |
| *<br>[B1 & B3]<br>Calculus I  | (CHEM 124 or AP<br>Chem score of 5)                                  | (CHEM 125 w/min C-)<br>Calculus III  | Organic<br>Chemistry I<br>CHEM 216 (5)<br>(CHEM 126 or 129<br>w/min C-)       | Organic<br>Chemistry II<br>CHEM 217 (3)<br>(CHEM 216 w/min C<br>Coreq: CHEM 221)                       | Organic Chemistry<br>III<br>CHEM 218 (3)<br>(CHEM 217 w/min C<br>Coreq: CHEM 324)            | Physical<br>Chemistry I<br>CHEM 351 (3)<br>(CHEM 126 or 129;<br>MATH 143; PHYS 122<br>or 132)      | Physical<br>Chemistry II<br>CHEM 352 (3)<br>(CHEM 351)                          | Physical<br>Chemistry III<br>CHEM 353 (3)<br>(CHEM 352)     | Inorganic<br>Chemistry<br>CHEM 481 (3)<br>(CHEM 352 and<br>CHEM 231/331)             | Instrumental<br>Analysis<br>CHEM 439 (5)<br>(CHEM 231/331; CHEM<br>354. Recom: CHEM<br>353) |  |
| MATH 141 (4)<br>*<br>[B4]   | MATH 142 (4)<br>(MATH 141 w/min C-)<br>[GE Elective]                 | MATH 143 (4)<br>(MATH 142 w/min C-)<br>Introduction to Cell<br>& Molecular Biology | Calculus IV<br>MATH 241 (4)<br>(MATH 143)                                     | Organic<br>Chemistry<br>Laboratory II<br>CHEM 221 (2)<br>(Coreq: CHEM 217)                             | Organic Chemistry<br>Laboratory III<br>CHEM 324 (2)<br>(Coreq: CHEM 218)                     | Biochemical<br>Principles<br>CHEM 371 (5)<br>(CHEM 217 or 317;<br>BIO 161. Recom:<br>CHEM 231/331) | Physical<br>Chemistry Lab<br>CHEM 354 (2)<br>(CHEM 231/331.<br>Coreq: CHEM 352) | Physical<br>Chemistry III Lab<br>CHEM 357 (1)<br>(CHEM 353) | Inorganic<br>Chemistry<br>Laboratory<br>CHEM 484 (2)<br>(CHEM 481)                   | Advanced<br>Chemistry Elective<br>(3) <sup>3</sup><br>*                                     | Advanced<br>Chemistry<br>Elective<br>(3) <sup>3</sup><br>* |
| E   | Expository Writing<br>NGL 133/134 (4)**<br>[A2]                      | BIO 161 (4)<br>(Recom: CHEM 110,<br>124, or 127)<br>[B2 & B3]                      | General Physics IA<br>PHYS 141 (4)<br>(MATH 141 w/min C-,<br>MATH 142 or 182) | CSC / MATH / STAT<br>Elective<br>CSC 232, 234,<br>235, MATH 206,<br>244, STAT 218, or<br>312<br>(3-4)* | Quantitative<br>Analysis<br>CHEM 331 (5) <sup>2</sup><br>(CHEM 126 or 129)                   |  | Physics<br>Elective<br>(200-level and<br>above)<br>(3)                          | Advanced<br>Chemistry<br>Elective<br>(3) <sup>3</sup><br>*  |  | Advanced<br>Chemistry Elective<br>(3) <sup>3</sup><br>*                                     | Advanced<br>Chemistry<br>Elective<br>(3) <sup>3</sup><br>* |
|   | Oral Communication<br>OMS 101/102 (4)**<br>[A1]<br>GE (4)<br>**      |  |   | General Physics II<br>PHYS 132 (4)<br>(PHYS 141)   | General Physics III<br>PHYS 133 (4)<br>(PHYS 141; MATH 142,<br>Recom: MATH 241)              | GE (4)<br>**   | GE (4)<br>**  | GE (4)<br>**  |  |   |  |
| Reasoning, Argumentation, & Writing [A3]   COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGS 145 (4)**   (Completion of GE A2 with a C- or better)   Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.   Free Elective (1) <sup>1</sup> Recom: CHEM 101 |  |  |   | (Students can attemp   | GE (4)<br>**<br>Writing Requirement<br>to fulfill the requirement<br>omplete the requirement | after 90 earned units;   | GE (4)<br>**  | GE (4)<br>**  | GE (4)<br>**<br>Free Elective<br>(3-4) <sup>1</sup>                                  |   |  |
| 17  | 17   | 17   | 13  | 13-14  | 14   | 17   | 16  | 15  | 12   | 15  | 13-14  |

## 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, B1, B2, Upper-Division B, C1, C2, Lower-Division C, Upper-Division C, D1, D2, Upper-Division D, Lower Division E, Lower Division F, and 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, D2, Upper-Division D,

<sup>1</sup> A total of 8-9 units of elective credit are required for this major/concentration combination. The Chemistry Department strongly recommends that you take CHEM 101, offered only in Fall quarter, and SCM 150 for Math and Science elective credit in your first year.

<sup>2</sup> Students should take CHEM 331 during their second year, and as soon as possible after completing CHEM 126.

<sup>3</sup> Select at least 15 units of Advanced Chemistry Electives. See CHEM curriculum sheet or Department for a current list of Approved Chemistry Electives. This is the default

curriculum required for students who do not declare the Polymers and Coatings Concentration.



