## CAL POLY

## B.S. in BIOLOGICAL SCIENCES (General Curriculum)

Suggested 4-Year Academic Flowchart

Undated 3/5/2020 FRESHMAN SOPHOMORE JUNIOR SENIOR Fall Fall Winter Spring Winter Spring Fall Winter Spring Fall Winter Spring Intro to Cell & Intro to Ecology (choose one) Principles of Genetics Evolutionary Medicine or Evolution (choose one) Diversity & Introductory Molecular Organismal BIO 327, 363, 442; BOT 326; MCRO BIO 351 (5) BTO 413 or 414 History of Life cology & Evolution Form & Function Biology 436; MSCI 300 (4)\* (BIO 161; CHEM 216, 312, or 316. Recom: BIO 263; STAT 217 or 218 (4) \* BIO 160 (4) BIO 161 (4) BIO 162 (4) BIO 263 (4) Recom: CHEM 110, (BIO 161. Recom Physiology<sup>3</sup> (choose one) General Curriculum Senior Project 111, 124, or 127) CHEM 110, 111, (BIO 160 or 161) BIO 361, 434, 435 Upper Division Elective BIO 461 or 462 124, or 127) ГВ2 & B31 General Curriculum General Curriculum General Curriculum Calculus for the Calculus for the Biodiversity (choose one) **Upper Division Elective Additional Elective** Life Sciences I Life Sciences II (4)4,5 \* (4)4,7 \*  $(4)^{4,6} *$ MATH 161 (4) MATH 162 (4) General Curriculum General Curriculun (MATH 161) **Upper Division Elective Additional Elective** ГВ41 [GE Elective] (4)4,6 \*  $(4)^{4,7} *$ General Chem Applied Statistics for the Life Sciences General Curriculum General Curriculum General Curriculum General Chem General Chem STAT 218 (4) for Agriculture & for Agriculture & for Agriculture & **Upper Division Elective UD Elective Additional Elective** Life Science I Life Science II Life Science III (4)<sup>4,6</sup> \*  $(4)^{4,7} *$ CHEM 127 (4) CHEM 128 (4) CHEM 129 (4) CHEM 216 (5) (CHEM 126 or 129 w/min C-) General Curriculum College Physics (CHEM 127 or AP College Physics (CHEM 128) College Physics 1 Additional Elective OR<sup>2</sup> CHEM score of 5 (4)<sup>4,7</sup> \* [B1 & B3] CHEM 312 (5) (CHEM 125 or 128) PHYS 121 (4) PHYS 122 (4) PHYS 123 (4) Expository Writing General Curriculum (PHYS 118, 121, (PHYS 118, 121, ENGL 133/134 (4)\*\* MATH 118 or 119 131, or 141. **Additional Elective** 131, or 141) ecom: PHYS 122 [A2]  $(3)^{4,7} *$ Oral Communication COMS 101/102 (4)\*\* GE (4) **GE (4)** GE (4) GE (4) **GE (4)** GE (4) **GE (4) GE (4)** GE (4) **ΓΑ11** Free Elective Free Elective Free Elective GE (4) **GE (4)**  $(2)^{1}$  $(2)^{1}$  $(1)^{1}$ Reasoning, Argumentation, & Writing [A3] Graduation Writing Requirement GWR\* COMS 126; COMS/ENGL 145; ENGL 148; PHIL 126 (4) \*\* (Students can attempt to fulfill the requirement after 90 earned (Completion of GE A2 with a C- or better) units: students should complete the requirement before senior Can be taken anytime between Winter of Freshman and Winter of Sophomore Years 14 18 13 16 14 15 12 TOTAL: 180

## Notes:

## MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREOUISITES 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 Elective, Upper-Division C, D1, D2, D2, Upper-Division D, E, and GE Electives 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, or E.

- <sup>1</sup>5 units of Free Electives required. SCM 150 workshops for Math/Science courses recommended for remaining units.
- <sup>2</sup>Students in the Molecular and Cellular Biology concentration should take CHEM 216 to fulfill this requirement.



Free Electives (5)

<sup>&</sup>lt;sup>3</sup>Students in the Anatomy and Physiology concentration should take BIO 361 to fulfill this requirement.

<sup>&</sup>lt;sup>4</sup>This is the default curriculum required for students who do not declare a concentration. Courses taken to meet a major support requirement cannot be double-counted in the concentration or general curriculum.

<sup>&</sup>lt;sup>5</sup>Select from the following: BIO 321, 322, 323, 324, 329, 335, 336, 429; BOT 313; MCRO 224, 402; MSCI 324.

<sup>&</sup>lt;sup>6</sup>20 units of Upper Division electives required. See Catalog for course options. Minimum of 12 units of 400-level courses, and 8 units of 300-level courses. Consultation with advisor is recommended. Excess units applied to "Approved Electives."

<sup>&</sup>lt;sup>7</sup>19 units of Approved Electives required. See Catalog for course options. Consultation with advisor is recommended. No double-counting with Major requirements. Upper-division courses may be needed to satisfy 60-unit degree requirement.