

BACHELOR OF SCIENCE (B.S.) WORKSHEET 2019-20

LOWER-DIVISION / PREPARATION FOR MAJOR (1st and 2nd years)

Env. St. 1 (F qtr)*
 Env. St. 2 (W qtr)*
 Env. St. 3 (S qtr)*

Env. St. 30 (F qtr)* or
 Economics 1 or 2 or 9

Ethics & Justice:
 Phil. 3 or 4
 or Poli Sci. 1

**Culture, Society,
Policy & Politics:**
 Any one course from list:
 Anth. 2 or Geog. 5
 or Global St. 1 or 2
 or History 5 or 7
 or Poli. Sci. 6 or 7
 or 12 or Psychology 1
 or Religious St. 1 or 14
 or Sociology 1

Chemistry 1A/AL
 Chemistry 1B/BL
 Chemistry 1C/CL

Physics 6A/AL
 Physics 6B/BL
 Physics 6C/CL
 ----- OR -----
 Physics 1
 Physics 2
 Physics 3/3L

MCDB 1A (F qtr)*
 MCDB 1B (W qtr)*
 EEMB 2 (W qtr)*
 EEMB 3 (S qtr)*

AND EITHER:
 MCDB 1LL (W, Sum qtrs)*
 and EEMB 2LL (F, S qtrs)
 ----- OR -----
 MCDB 1AL and
 1BL or EEMB 2L
 and EEMB 3L

PSTAT 5A or 5LS
 or 109
 (Or Comm 87, Poli. Sci 15,
 or Psych 5 by petition)

Math 3A or 2A
 Math 3B or 2B
 Math 4A

Geography 3 or 4
 or Earth Sci. 2 or 4 or 20

Advanced Placement (AP), International Baccalaureate (IB) and Transfer credit may be substituted for Prep for Major requirements!
 Review your *UCSB Course History* on GOLD for automatically articulated credit or see an ES Advisor for assistance.

UPPER-DIVISION (3rd and 4th years)

A. ES REQUIRED COURSES (17-18 UNITS)

Environmental Studies 100 (F, Sum qtrs)* or EEMB 120 or 168
 Environmental Studies 106 (F & W qtrs)* or 188 (W, Summer qtrs)*
 Environmental Studies 115 (W, Summer qtrs)*
 Environmental Studies 190 (1 unit, P/NP, offered F, W, S qtrs)*
AND
 Geog. 172 (F qtr)* or EEMB 146 or 179 or Pstat 120A (F, W, S qtr)*

B. ES ELECTIVES (32 UNITS of U.D. ES courses)

Section B-1: 20 Units must be taken from this list: ES 103A[^], 105, 111[^], 113[^], 114A[^], 114B[^], 119[^], 120A, 120B, 121, 128[^], 133[^], 134, 141, 142, 144[^], 147, 149[^], 152[^], 154, 157, 158[^], 162[^], 163A, 163B, 166BT[^], 166DC, 166FP[^], 167[^], 168[^], 169[^], 171[^], 193CP, 193CS, 193EB, 197.
[^] denotes a cross-listed course that may be taken through other dept.

Course	Units
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

Section B-2: Any 12 UD units of ES courses #100-199 excluding units used to fulfill Area A or the first 20 units applying to section B-1.

6. _____	_____
7. _____	_____
8. _____	_____

Total = 32

Note: No more than 4 units each of ES 192, 194, 199, 199RA and no more than 8 units combined may apply. By petition up to 12 UD units of EAP may apply.

1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____

Total = 16 units

NOTE: All courses, including cross-listed (either version), may apply to one area only in any part of the major. Courses taken to fulfill any major requirement must be taken for a letter grade unless only offered P/NP.

* Denotes specific quarter a course is to be offered; accurate for current academic year ONLY & subject to change year to year

>>> See the reverse side for instructions on how to declare the ES major <<<

C. OUTSIDE CONCENTRATION (16 UNITS)

There are 2 options for the Outside Concentration:

1) Single department: Complete any 16 upper-division units from any **one** of the following departments: Chemistry & Biochemistry, EEMB and/or MCDB (Bio), Earth Sciences, Geography (only courses that apply to the B.S. Physical Geog. major), Math, Statistics, Physics, or units taken for the B.S. degree in Psychological & Brain Sciences. Completion of a double major or minor from the above depts will satisfy this area (Special Studies minors must first consult an ES Advisor).

OR

2) Interdisciplinary emphasis: Combination of 16 upper-division units from more than one department listed above may be used to create a concentration of study as long as they form a coherent focus or emphasis. A student pursuing this option must submit a *Request to Petition Degree Requirements* to the ES Program justifying how proposed courses relate to each other and the desired emphasis. Petition forms are available from the ES Advisors.

A list of some example environmental emphases/concentrations one might use is available from the ES Advisors or at: www.es.ucsb.edu/academics/worksheets

NOTE: Study Abroad and/or Environmental Field Studies units may be applied to satisfy part or all of Area C. Units earned must be UC transferable, upper-division level, and relate to a student's chosen emphasis (either option 1 or 2 above). A *Request to Petition Degree Requirements* must be approved by the ES Program before units can be applied. For additional info see the ES Advisors or www.es.ucsb.edu