

THE FOUR YEAR PLAN – Hydro Major!

This worksheet is designed to assist Hydrologic Sciences students with course scheduling and allow for orderly progression through all graduation requirements within a four-year period. Below is a summary of the General Education and University requirements and how they overlap with ES major requirements. On the reverse side is a possible plan to complete the B.A. major requirements for the ES degree. One must still add in courses to fulfill GE and University requirements not satisfied by the major and the plan assumes one will earn satisfactory grades in all courses taken. **This is not the only acceptable approach**, but an example of one that works. As much as possible, we have placed courses in quarters in which they are normally offered. However, due to the constantly changing faculty schedules, variation of course offerings may occur. Therefore, one may want to consult an academic advisor to determine if adjustments are necessary!

In addition to major requirements (review the B.S. [Hydro major requirement worksheet](#)), one must satisfy UCSB's Unit, University, and General Education (GE) requirements. For your convenience, these requirements are summarized below. They are explained in more detail within the [UCSB General Catalog](#) or the [College of Letters and Science Degree Requirements webpage](#). For questions regarding requirements outside the ES major, please consult a College of L&S Advisor by visiting their advising website at: <http://www.duels.ucsb.edu/advising>

Units: The minimum number of units required to graduate is 180, of which 162 must come from the Letters and Science (L&S) list of courses and 60 L&S-listed units must be upper-division. Students who fulfill the foreign language requirement with UCSB course work must add 4 overall L&S-listed units, for total of 184 and 166.

University Requirements: Satisfy four university requirements: **1)** Entry Level Writing Requirement (by exam or grade of at least C in UCSB's Writing 1 course); **2)** American History and Institutions [*ai*] (by exam or one course from approved list); **3)** Academic Residence; **4)** GPA (2.0 minimum GPA in 3 categories: overall, in the major, and upper-division major).

General Education (GE) Requirements: **GE requirements for the B.S. include 11-14 courses** to satisfy General Subject Areas (A through G) and four Special Subject Areas: one quantitative relationships [#], one world culture [+], one ethnicity [&], and six writing courses [*]. No ~~European traditions~~ [-] for B.S. majors. Courses may be applied simultaneously to both GE Areas and Special Subject requirements, as well as simultaneously towards your ES major requirements.

LIST OF COURSES SIMULTANEOUSLY SATISFYING THE HYDRO B.S. MAJOR AND GE REQUIREMENTS:

Area A English Reading & Composition: 2 courses required. A-1) _____ and A-2) _____ (Optional: Writ. 105S, 107EP)

B Third-quarter Foreign Language: (or examination; or C avg. in 3rd-year high school foreign language) _____.

C Science, Mathematics, and Technology: 3 Courses Required. 1) MCDB 1A 2) Chem 1A 3) Math 3A#.
(Other courses that may apply: EEMB 3, Geog 3 or 4, Earth 2#, Math 2AB#, 3B#, Pstat 5A#, 5LS#, Phys. 6A/AL#, B/BL#, C/CL# or 1)

D Social Sciences: 2 Courses Required. 1) Econ 1 or 2 or 9 2) ES 1* (if taken instead of ES 1*).

E Civilization and Thought: 2 Courses Required. 1) ES 3* (if taken instead of ES 1*) 2) _____.

F The Arts: 1 Courses Required. 1) _____.

G Literature: 1 Courses Required. 1) _____.

SUMMARY OF GE REQUIREMENTS AS APPLIED TO THE HYDRO B.S. DEGREE:

- √ **GE Area C and possible D** can be completely satisfied by required courses within the HYDRO major!
- √ **Quantitative Relationship** requirement [#] is satisfied by completion of any number of HSP Prep for Major courses.
- **Area E** may have one of the two courses satisfied if you choose to take ES 3 instead of ES 1.
- **1 of 6 GE Writing requirements**, marked with an (*), are satisfied by required courses: ES 1 or ES 3.
- **American History and Institutions** is not satisfied by any HYDRO courses.
- **GE Area A-2** can be satisfied with Writ. 105S (*Writing for Sustainability*) or 107EP (*Writing for Env. Professionals*).
The **World Cultures** requirement (+) and **Ethnicity requirement** (&) are not satisfied by any HYDRO courses.
- **GE Areas B, F and G** **are not** satisfied by any HSP required courses.
- √ **European Traditions** is NOT required for B.S. majors.

SUGGESTED 4 YEAR SCHEDULE FOR HYDRO MAJORS – BACHELOR OF SCIENCE (B.S.)

The table below serves as a scheduling aid to help plan one's academic program. While it's not mandatory to follow this schedule, it's designed to help satisfy the degree requirements within 4 years. **NOTE:** This schedule accounts for the HYDRO Degree Requirements only! One needs to use the remaining empty blocks to satisfy their remaining GE/University requirements. The table uses major requirements for **academic year 2024-25** and assumes all UD ES elective and outside concentration courses one takes are 4 units! Questions: Contact an ES Academic Advisor or a College of L&S Advisor.

Summary of units: 145 to 148 total units must be devoted to the major requirements, including: 56 of which are Upper-division units: 21 required, 24-25 from six clusters, and 10-11 elective units.

Δ = a required course normally offered once a year and during that specific quarter (not including Summer Session).
Note that any specific quarter they're offered is for the current academic year only and subject to change year to year.

	FALL qtr.	WINTER Qtr.	SPRING Qtr.	SUMMER SESSION(S)	
YEAR 1	Math 3A or 2A Δ	Math 3B or 2B Δ	Math 4A	<i>1st</i>	<i>(Optional) 2nd</i>
	Chem 1A	Chem 1B/2AL	Chem 1C/2BL		
	ES 1 Δ or 3 (in winter)	ES 40 (offered fall or winter)	Geog 4		
YEAR 2	MCDB (bio) 1A Δ	MCDB (bio) 1B Δ + 1LL Δ	EEMB (bio) 3 Δ + 2LL Δ		
	Math 4B	EEMB (bio) 2 Δ	Earth Sci. 2		
	Econ 1 or 2 or 9 or ES 30 Δ	Pstat 5A or 5LS			
YEAR 3	Physics 6A/AL or 7A	Physics 6B/BL or 7B	Physics 6C/CL or 7C+7L		
	ES 102 Δ	Geog 116 Δ	ES/Geog 144 Δ		
	ES 163A Δ	ES 164 or 193DS	Area B Cluster Course		
YEAR 4	Area B Cluster Course	Area B Cluster Course	Area B Cluster Course		
	Area B Cluster Course	Area B Cluster Course	Area C Elective Course		
	Area C Elective Course	Area C Elective Course			