

**University of Hawai'i at Mānoa – Four-Year Academic Plan 2023-2024**

**School of Ocean and Earth Science and Technology**

**Bachelor of Science (BS) in Earth Sciences: Environmental & Hydrology Concentration**

This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan.

Year 1		Year 2		Year 3		Year 4		Required EARTH and other courses
Fall		Fall		Fall		Fall		Required EARTH/GenEd double-dip
ERTH 101/103/104/106/130 (DP)	3	CHEM 162	3	ERTH 333	4	ERTH 410 (E, O focus)	2	Science elective (see list below)
ERTH 101L (DY)	1	CHEM 162L	1	PHYS 272	3	ERTH 398	3	Upper Division elective (any topic)
MATH 241 (FQ)	4	MATH 242	4	PHYS 272L	1	ERTH 455	4	Lower Division elective (any topic)
OEST 100	1	ERTH 250/ EE160	3	Science Elective	3	ERTH 461 <sup>5</sup>	3	UHM GenEd/Graduation requirements
FW	3	ERTH 201 <sup>2</sup>	3	Elective 300+	3	DS	3	Support courses
OCN 105 (FG) <sup>1</sup>	3			Elective	3			
Credits	15	Credits	14	Credits	17	Credits	15	
Spring		Spring		Spring		Spring		
ERTH 200 <sup>2</sup> (W focus)	4	PHYS 170	4	ERTH 309	4	ERTH 305 (W focus)	3	
CHEM 161	3	PHYS 170L	1	ERTH 425	3	ERTH 413	3	
CHEM 161L	1	DS	3	ERTH 306/ GEO 405	3	Science Elective	3	
ERTH 135 (FG) <sup>1</sup>	3	OCN 102 (DB) <sup>3</sup>	3	Elective	3	Elective 300+	3	
DA/DL	3	HWST 107 (DH, H-focus) <sup>4</sup>	3			Elective 300+	3	
Elective	3							
Credits	17	Credits	14	Credits	13	Credits	15	
Summer		Summer		Summer		Summer		
Credits	0	Credits	0	Credits	0	Credits	0	
<b>Total Credits</b>	<b>32</b>	<b>Total Credits</b>	<b>60</b>	<b>Total Credits</b>	<b>90</b>	<b>Total Credits</b>	<b>120</b>	

**Notes:**

Students must take placement exams to be able to register for CHEM 161 and MATH 241.

Students must incorporate all focus requirements into this plan. Focus designations (i.e., W, E, O, H) are CRN specific & semester specific.

Minimum 45 upper division (300+ course) credits are required.

The following may fulfill upper-division Science elective requirements: EARTH 301, 302, 303, 413, 420, 423, 460, ATMO 302, 303, 310, BIOL 301, 340, 310, 410, BOT 458, 459, ECON 358, GEO 300, 302, 303, 305, 310, 370, 401, 405, 410, 412, 413, 414, HWST 458, 459, NREM 461, OCN 318, 411, 441, 457, PLAN 414, 473, TPSS 304.

<sup>1</sup> or other FG course

<sup>2</sup> either EARTH 200 (Spring only) or EARTH 201 (Fall only) can fulfill this requirement. Whichever of these courses is not taken can be replaced by an Elective (either 3 or 4 credits, respectively).

<sup>3</sup> other accepted DB courses are BE 120; BIOL 171, BOT 101; MICR 130; NREM 210, 251; OEST 103; ZOOL 101, 200; BIOC 441

<sup>4</sup> or other DH course

<sup>5</sup> GEO 388 or NREM 477 can substitute for EARTH 461.