## University of Hawai'i at Mānoa – Four-Year Academic Plan 2022-2023 School of Ocean and Earth Science and Technology Bachelor of Science (BS) in Earth Sciences, Basic Science & Research Concentration This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan. Year 2 Year 3 Year 4 Required ERTH and other courses Fall Fall Fall Required ERTH/GenEd double-dip **ERTH 201<sup>2</sup>** ERTH 101/103/104/106/130 (DP) ERTH 333 **ERTH 398** Science elective (see list below) ERTH 101L (DY) ERTH 250 / EE 160 PHYS 272 ERTH 410 (E. O focus) Upper Division elective (any topic) BIOL 171 (DB)3 MATH 241 (FQ) PHYS 272L ERTH 499 Lower Division elective (any topic) BIOL 171L3 **OEST 100** DA/DL DS UHM GenEd/Graduation requirements OCN 105 (FG)1 Support courses **CHEM 161** Science Elective Science Elective CHEM 161L Elective 300+ Elective 300+ Credits 16 Credits 17 Credits 17 Spring Spring Spring ERTH 499 ERTH 2002 (W focus) PHYS 170 ERTH 413 MATH 242 PHYS 170L DS Science Elective BIOL 1723 Science Elective CHEM 162 Elective 300+ CHEM 162L BIOL 172L3 Science Elective Elective ERTH 135 (FG)1 HWST 107 (DH, H-focus)4 Elective 300+ Elective 15 Credits Credits 15 Credits Summer Summer Summer Credits Credits 0 Credits 0 0 **Total Credits** 31 Total Credits 59 Total Credits 91 Total Credits 120 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: any 300+ level ERTH, EPET, ATMO, or OCN course, plus GEO 370, 388, 405; NREM 301, 302, 477; PEPS 451 or alternative science

## Notes:

Credits

Credits

Summer

Year 1

FW

Credits

Spring

Fall

elective approved by the student's advisor after consultation with the student's research mentor, with ERTH461/NREM 477/GEO 388 strongly recommended.

or other FG course

either ERTH 200 (Spring only) or ERTH 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).

other accepted DB courses in lieu of BIOL 171,171L,172,172L are any combination of the following totaling 8 credits: BE 120; BIOC 441, BOT 101; MICR 130; NREM 210, 251; OCN 102, OEST 103; ZOOL

or other DH course