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| UHM General Education Core Requirements |
|  |
| Foundations |
| * FW ENG 100, 100A, 190, ESL 100, or AMST 111 |
| * FQ\* MATH 241 |
| * FG (A / B / C) |
| * FG (A / B / C) |
| *\*Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.* |
| Diversification |
| * DA / DH / DL |
| * DA / DH / DL |
| * DB BIOL 171 |
| * DP CHEM 161 |
| * DY CHEM 161L |
| * DS |
| * DS |
| *\* See degree, college and major requirements for courses that can also fulfill these.* |
| **UHM Graduation Requirements** |
|  |
| Focus |
| * H |
| * E (300+) OCN 310 |
| * O (300+) OCN 490 |
|  |
| * W BIOL 171L |
| * W OCN 499 |
| * W OCN 401 |
| * W (300+) OCN 310 |
| * W (300+) OCN 320 |
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| Hawaiian / Second Language |
| The Hawaiian or Second Language requirement is **not** required for students admitted to the School of Ocean and Earth Science and Technology. |
| **Credit Minimums** |
| * 120 total applicable |
| * 30 in residence at UHM |
| * 45 upper division (300+ level) credits |
| **Grade Point Average** |
| * 2.0 cumulative or higher *(Note: Other GPAs may be required)* |
| * Good academic standing |

*This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements. Meet regularly with your major advisor.*

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| Degree Requirements |
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| Bachelor of Science Requirements |
| * MATH 241\*FQ |
| * MATH 242 |
| * MATH 243 or OCN/GG 312 |
| * MATH 244 or ECON 321\*DS |
| * BIOL 171\*DB / ❑ 171L\*DY |
| * BIOL 172\*DB / ❑ 172L\*DY |
| * CHEM 161\*DP / ❑ 161L\*DY |
| * CHEM 162\*DP / ❑ 162L\*DY |
| * PHYS 170\*DP / ❑ 170L\*DY |
| * PHYS 272\*DP / ❑ 272L\*DY |
| * MATH 244 must be taken if MATH 243 is taken. |
| * OCN/GG 312 must be taken if ECON 321 is taken. |
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| **College Requirements** |
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| **Exit Requirements** |
| * Submit the Graduation Worksheet to the Student Academic Services Office at least two semesters preceding the award of the degree. |
| * Exit interview by SOEST Student Academic Services Office. |
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| **Major Requirements for BS in Global Environmental Science General Pathway Track** | |
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| Admission: Open | |
| Application: NA | |
| Min. major credits: 86 | |
| Min. C grade (not C-) in all courses | |
| **Requirements** | |
| **Global Environmental Science Basic Science Required Courses (40 credits)** | |
| ❑ BIOL 171\*DB / ❑ 171L\*DY | |
| ❑ BIOL 172\*DB / ❑ 172L\*DY | |
| ❑ CHEM 161\*DP / ❑ 161L\*DY | |
| ❑ CHEM 162\*DP / ❑ 162L\*DY | |
| ❑ PHYS 170\*DP / ❑ 170L\*DY | |
| ❑ PHYS 272\*DP / ❑ 272L\*DY | |
| ❑ MATH 241\*FQ | |
| ❑ MATH 242 | |
| ❑ MATH 243 or OCN/GG 312 | |
| ❑ MATH 244 or ECON 321\*DS | |
| ❑ OEST 100 | |
| *\*MATH 244 must be taken if MATH 243 is taken. OCN/GG 312 must be taken if ECON 321 is taken.* | |
|  | |
| **Global Environmental Science Core Courses (11 credits)** | |
| ❑ ATMO 200\*DP | |
| ❑ GG 101\*DP / ❑ 101L\*DY **or** ❑ GG 170\*DP/DY | |
| ❑ OCN 201\*DP / ❑ 201L\*DY | |
|  | |
| **Global Environmental Science Foundation Courses (18 credits)** | |
| ❑ OCN 100 | |
| ❑ OCN 102 | |
| ❑ OCN 310 / ❑ OCN 310L | |
| ❑ OCN 320 | |
| ❑ OCN 363 | |
| ❑ OCN 401 | |
|  | |
| **Global Environmental Coupled Systems Courses (4 approved courses; 12 credits)** | |
| ❑ \_\_\_\_\_\_\_\_\_\_\_\_ | |
| ❑ \_\_\_\_\_\_\_\_\_\_\_\_ | |
| ❑ \_\_\_\_\_\_\_\_\_\_\_\_ | |
| ❑ \_\_\_\_\_\_\_\_\_\_\_\_ | |
| *Examples of approved coupled systems courses: ATMO 302, 303; BIOC 241; BIOL 265, 301, 360, 404; BOT 480; ECON 358, 458, 638; GEOG 300, 401, 402, 405; GG/ERTH 301, 309, 420, 421, 425, 455, 466; MICR 401; NREM 301, 301L 302, 304, 461; OCN 318, 330, 331, 340, 403, 418, 457, 480, 481, 620, 621, 622, 623, 633, 638; PHIL 316; POLS 316; SOC 412; ZOOL 410, and 466.* | |
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| **Global Environmental Senior Research Courses (5 credits)** | |
| ❑ OCN 490 | |
| ❑ OCN 499 | |
|  | |
| **Notes** | |
| School of Ocean and Earth Science and Technology: Student Academic Services, HIG 135; (808) 956-8763; www.soest.hawaii.edu | |
| Department of Global Environmental Science: | MSB 205; (808) 956-2910; ges@soest.hawaii.edu; www.soest.hawaii.edu/oceanography/GES/ |
| GES Undergraduate Chair: Michael Guidry, PhD; MSB 205E; (808) 956-9935; [guidry@hawaii.edu](mailto:guidry@hawaii.edu) | |

Rev LA 2/18