



**University of Hawai'i at Mānoa**  
**School of Ocean and Earth Science and Technology Program Sheet 2015-2016**  
**Bachelor of Science (BS) in Global Environmental Science**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (106 in core & major + 14 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
<input type="checkbox"/> FW ENG 100, 100A, 190, or ESL 100
<input type="checkbox"/> FS MATH 241
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
<b>Diversification</b>
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB BIOL 171
<input type="checkbox"/> DP CHEM 161
<input type="checkbox"/> DY CHEM 161L
<input type="checkbox"/> DS
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
<b>Focus</b>
<input type="checkbox"/> H
<input type="checkbox"/> E (300+)
<input type="checkbox"/> O (300+)
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W (300+)
<input type="checkbox"/> W (300+)
<b>Hawaiian / Second Language</b>
The Hawaiian or Second Language requirement is <b>not</b> required for students admitted to the School of Ocean and Earth Science and Technology.
<b>Credit Minimums</b>
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) credits
<b>Grade Point Average</b>
• 2.0 cumulative or higher ( <i>Note: Other GPAs may be required</i> )
• Good academic standing

Degree Requirements
<b>Bachelor of Science Requirements</b>
<input type="checkbox"/> MATH 241* <sup>FS</sup>
<input type="checkbox"/> MATH 242
<input type="checkbox"/> MATH 243 or OCN/GG 312
<input type="checkbox"/> MATH 244 or ECON 321* <sup>DS</sup>
<input type="checkbox"/> CHEM 161* <sup>DP</sup> / <input type="checkbox"/> 161L* <sup>DY</sup>
<input type="checkbox"/> CHEM 162* <sup>DP</sup> / <input type="checkbox"/> 162L* <sup>DY</sup>
<input type="checkbox"/> PHYS 170* <sup>DP</sup> / <input type="checkbox"/> 170L* <sup>DY</sup>
<input type="checkbox"/> PHYS 272* <sup>DP</sup> / <input type="checkbox"/> 272L* <sup>DY</sup>
• MATH 244 must be taken if MATH 243 is taken.
• OCN/GG 312 must be taken if ECON 321 is taken.
<b>College Requirements</b>
<b>Exit Requirements</b>
• 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.

*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.*

## Major Requirements for BS in Global Environmental Science

Admission: Open

Application: NA

Min. major credits: 79

Min. C grade (not C-) in all courses

### Requirements

#### Global Environmental Science Basic Science Required Courses (38 credits)

BIOL 171\*<sup>DB</sup> /  171L\*<sup>DY</sup>

BIOL 172\*<sup>DB</sup> /  172L\*<sup>DY</sup>

CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup>

CHEM 162\*<sup>DP</sup> /  162L\*<sup>DY</sup>

PHYS 170\*<sup>DP</sup> /  170L\*<sup>DY</sup>

PHYS 272\*<sup>DP</sup> /  272L\*<sup>DY</sup>

MATH 241\*<sup>FS</sup>

MATH 242

MATH 243 or OCN/GG 312

MATH 244 or ECON 321\*<sup>DS</sup>

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)

GG 101\*<sup>DP</sup> /  101L\*<sup>DY</sup> or  GG 170\*<sup>DP/DY</sup>

MET/ATMO 200\*<sup>DP</sup>

OCN 201\*<sup>DP</sup> /  201L\*<sup>DY</sup>

#### Global Environmental Science Foundation Courses (18 credits)

GEOG 410 or GEOG 411

OCN 100

OCN 310 /  OCN 310L

OCN 320

OCN 363

OCN 401

#### Global Environmental Coupled Systems Courses (4 approved courses; 12+ credits; see catalog for prerequisites)

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*Examples of approved coupled systems courses: BIOC 241; BIOL 265, 301, 360, and 404; BOT 480; ECON 358; 458; and 638; GEOG 300, 401, 402, 405, and 488; GG 301, 309, 420, 421, 425, 455, and 466; MET/ATMO 302 and 303; MICR 401; NREM 301, 301L 302, 304, and 461; OCN 330, 331, 403, 480, 620, 621, 622, 623, 633, and 638; PHIL 315/OCN 315 and PHIL 316; POLS 316; SOC 412; ZOOL 410 and 466*

#### 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](http://www.soest.hawaii.edu)  
Department of Global Environmental Science: MSB 205; (808) 956-2910; [ges@soest.hawaii.edu](mailto:ges@soest.hawaii.edu);  
[www.soest.hawaii.edu/oceanography/GES/](http://www.soest.hawaii.edu/oceanography/GES/)  
GES Undergraduate Chair: Michael Guidry, PhD; MSB 205E; (808) 956-9935; [guidry@hawaii.edu](mailto:guidry@hawaii.edu)