

New Program Code       Replace Program Code      Date: \_\_\_\_\_

**REQUESTOR CONTACT INFORMATION**

Name \_\_\_\_\_ Campus \_\_\_\_\_  
 Title \_\_\_\_\_ Email \_\_\_\_\_  
 Office/Dept \_\_\_\_\_ Phone \_\_\_\_\_

**NEW PROGRAM CODE TO CREATE**

Institution \_\_\_\_\_ Campus \_\_\_\_\_  
 Level \_\_\_\_\_ Effective Term \_\_\_\_\_

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) _____	_____	<input type="checkbox"/> See Banner form STV_COLL
Department	(4) _____	_____	<input type="checkbox"/> See Banner form STV_DEPT
Degree/Certificate	(6) _____	_____	<input type="checkbox"/> See Banner form STV_DEGC
Major	(4) _____	_____	<input type="checkbox"/> See Banner form STV_MAJR
Concentration	(4) _____	_____	<input type="checkbox"/> See Banner form STV_MAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STV_MAJR

If a similar major/concentration code exists in Banner, please list the code: \_\_\_\_\_

Justification to warrant a new major/concentration code similar to an existing major/concentration code:  
 \_\_\_\_\_

Is this major/concentration code being used the same way at the other UH campuses?     Yes     No  
 Should this program be available for applicants to select as their planned course of study on the online application? *If yes, student may select the code as their only program of study.*     Yes     No

**RULES PERTAINING TO FINANCIAL AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION**

Is 50% or greater of the classes in this program offered at a location other than the Home Campus?     Yes     No  
 Is this program/major/certificate financial aid eligible?     Yes     No  
 Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)?     Yes     No

See <http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html>

**Program Length**

*In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication.*

Special Program Designations     A     B     N     P     T     U

See *Special Program Designations Code Definitions on IRAO Program Code Request webpage*

Required Terms of Enrollment:     Fall     Spring     Summer     Extended

**EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE**

Program Code _____	Program Description _____
Institution _____	Campus _____
College _____	Department _____
Level _____	

Are current students "grandfathered" under the program code?  Yes  No

Should the old program code be available for use in Banner?  Yes  No

**Effective**  **, old program code will no longer be available to admit or recruit students.**  
Term (ie. Fall 2020)

*This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.*

**Effective**  **, old program code will no longer be available to award degree to students.**  
Term (ie. Fall 2020)

*This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.*

**ATTACHMENTS**

**BOR Approved:** Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

- BOR Meeting Minutes & Supporting Documents  Curriculum

**Chancellor Approved:** Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

- Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.  
 Curriculum

**CERTIFICATES ONLY: Please check one (1) statement.** This certificate is a...

BOR approved certificate. BOR Meeting/Approval Date: \_\_\_\_\_

Chancellor approved within an authorized BOR program. BOR Program: \_\_\_\_\_

Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

**VERIFICATIONS**

*By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.*

<p><b>Registrar</b> (Print Name)</p> <p>_____</p>	<p><b>Financial Aid Officer</b> (Print Name)</p> <p>_____</p>	<p><b>For Community Colleges, verification of consultation with OVPCC Academic Affairs:</b> Tammi Oyadomari-Chun</p> <p>_____</p>
Signature	Date	Signature
Signature	Date	Signature
Date	Date	Date

**ADDITIONAL COMMENTS**



November 30, 2021

MEMORANDUM

TO: Laura E. Lyons  
Interim Vice Provost for Academic Excellence

FROM: Makena Coffman *Makena Coffman*  
Director, Institute for Sustainability and Resilience

Amy Schiffner *Amy Schiffner*  
Director, Interdisciplinary Studies Program

SUBJECT: APPROVAL OF PROGRAM MODIFICATION TO THE MAJOR EQUIVALENT IN  
SUSTAINABILITY IN THE INTERDISCIPLINARY STUDIES PROGRAM

SPECIFIC ACTION REQUESTED:

It is requested that the Interim Vice Provost for Academic Excellence approve modifications to the Major Equivalent in Sustainability within the Interdisciplinary Studies Program.

REQUESTED EFFECTIVE TERM:

Spring 2022 or next effective term.

ADDITIONAL COST:

No additional resources are needed at this time.

RATIONALE/PURPOSE OF PROPOSED CHANGE(S):

The Major Equivalent in Sustainability within the Interdisciplinary Studies Program was approved in October 2019 and went into effect in Spring 2020. There are currently twenty-four enrolled students and the expectation is that the program will continue to grow as incoming students learn about this opportunity. Since its initial launch, a number of sustainability-focused courses have been identified and cross-listed as SUST. The primary purpose of this modification is to add these courses into the lower division requirements and upper division areas of concentration (i.e. “tracks”). Additional courses also allow for the expansion of upper division tracks to include a concentration in climate change. In addition, since the creation of the initial programmatic pathway, a key course in the lower division requirements, SUST/TAHR/SOCS 250, has not been offered with the frequency initially intended due to faculty departures from the CSS Sustainability Cluster hire. As such, the motivation of this modification to go into effect as soon as possible, beginning Spring 2022, is to fill this gap in curriculum and to give students clear alternatives. The program is currently operating by making substitutions for SUST 250 on a case-by-case basis, and would benefit the student experience to make this explicit within program materials (i.e. via the program sheet and within student STAR course pathways). Lastly, this modification creates major pre-requisites, which through learning about how current students are going through the program, creates a more clear lower division course pathway as well as allows for more upper division credits and therefore a deeper sustainability focus.

This modification will prompt an update of the program sheet and 4-year plan (current and suggested are appended to this request), as well as the areas of concentration will be amended in the description in the the catalog (under “Instructional Support, Research and Service Units”).



DETAILED LIST OF CHANGE(S):

- Remove “Introductory Foundation Courses.”
- Add 9 credits of major pre-requisites, to be completed prior or concurrently to lower division major coursework, as attached.
- Amend list of upper-division major core courses, as attached.
- Increase upper-division major core course credits from 9 to 12.
- Change three area of concentration titles (“Sustainable Environmental Policy,” “From Global Issues to Local Action,” and “Environmental Justice, Values, and Ethics”) that correspond as minor changes from prior areas of concentration.
- Add area of concentration “Climate Change.”
- Amend list of upper-division area of concentration courses, as attached.
- Increase upper-division major elective course credits from 12 to 15, to be taken within two areas of concentration.

DETAILED LIST OF CONSULTATION WITH IMPACTED PROGRAMS:

The presented modifications are based on the recommendations of the ISR Curriculum Committee, and their review of the BA curriculum in AY20-21, with final consultation via email during September 2021. The ISR Curriculum Committee members involved in this review include:

- Guohui Zhang, Associate Professor, Representing the College of Engineering
- Marguerite Butler, Associate Professor, Representing the College of Natural Sciences
- Laurel Mei-Singh, Assistant Professor, Representing the College of Social Sciences AY20-21
- Jonathan Padwe, Associate Professor, Representing the College of Social Sciences AY21-22
- Mikey Kantar, Assistant Professor, Representing the College of Tropical Agriculture and Human Resources
- Malia Akutagawa, Associate Professor, Representing Hawai‘i inuiākea School of Hawaiian Knowledge
- Michael Guidry, Specialist, Representing the School of Ocean and Earth Science and Technology
- Pauline Chinn, Professor, Representing College of Education
- Jaimey Hamilton Faris, Associate Professor, Representing the College of Arts, Languages, and Letters
- Mary Babcock, Professor, Representing the College of Arts, Languages, and Letters, Fall 2021 (during Dr. Faris’s sabbatical)
- Christopher Cannon, Assistant Professor, Representing the Shidler College of Business, beginning Fall 2021

The presented modifications were also reviewed and comments given by the Interdisciplinary Studies Faculty Council. (Dr. Coffman recused herself from this review.)

ACTION RECOMMENDED:

It is recommended that the Interim Vice Provost for Academic Excellence approve the modifications to the Major Equivalent in Sustainability within the Interdisciplinary Studies Program.

ATTACHMENTS:

1. Current Program Sheet
2. Proposed Program Sheet (with and without track changes)
3. Current 4 Year Plan Template
4. Proposed 4 Year Plan Template (with proposed changes in Red)
5. Current/Proposed Catalog description (with proposed changes marked in Red)



UNIVERSITY  
of HAWAII®  
MĀNOA

Institute for Sustainability and Resilience

APPROVED/DISAPPROVED:

A handwritten signature in black ink, appearing to read "Laura E. Lyons".

Laura E. Lyons  
Interim Vice Provost for Academic Excellence

5 December 2021

Date

**University of Hawai‘i at Mānoa**  
**Office of Undergraduate Education Program Sheet 2020-2021**  
**Bachelor of Arts (BA) in Interdisciplinary Studies: Sustainability**  
**Admissions: Selective Process: Application**  
**Min. Total Credits: 120 (88 in core & major + 32 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
FW ENG 100, 100A, 190, ESL 100, or AMST 111
FQ*
FG (A / B / C)
FG (A / B / C)
<i>*Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.</i>
<b>Diversification</b>
DA / DH / DL
DA / DH / DL
DB
DP
DY
DS
DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
<b>Focus</b>
H
E (300+)
O (300+)
W
W
W
W (300+)
W (300+)
Hawaiian / Second Language
101
102
201
202
Credit Minimums
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) credits
Grade Point Average
• 2.0 cumulative or higher ( <i>Note: Other GPAs may be required.</i> )
• Good academic standing

• 36 credits
• Minimum exit GPA: 2.5 in the major equivalent
• Minimum C grade (not C-) in courses
• Senior capstone project
• Mandatory advising
College Requirements
Credit Maximums
• 8 KRS activity
• 9 Directed Reading / Research
• 12 Practicum / Internship

*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.*

**Degree Requirements**

Admission: Open.		
Application: Not applicable		
Min. major credits: 45		
<b>Requirements</b>		
<b>Major Prerequisites (choose one from each or equivalent with approval, 9 credits)</b>		
<b>Economics:</b>	ECON 130* <sup>DS</sup> , SUST/NREM 220* <sup>DS</sup>	
<b>Statistics:</b>	BIOL/BOT 220, ECON 321* <sup>DS</sup> , NREM 310	
<b>Biology OR Chemistry:</b>	BIOL 101* <sup>DB</sup> , BIOL 171* <sup>DB</sup> , SUST 120/CHEM 110* <sup>DP</sup> , CHEM 161* <sup>DP</sup>	
<b>Major Foundation Course Requirements (choose from 2 colleges, 6 credits; at least 3 credits must be at 200-level)</b>		
SUST 112/OCN 102/GES 102* <sup>DB</sup>	SUST/REL 170	SUST 222/ES 221
SUST 114/PLAN 101	SUST/ANTH 204	SUST/SOCS/TAHR 250* <sup>DS</sup>
SUST 115/OCN 105	SUST/NREM/PEPS 210	SUST/NREM/TPSS 251
SUST 116/ERTH 106* <sup>DP</sup>	SUST 211/TPSS 200* <sup>DB</sup>	SUST/IS 260
SUST/HIST 157	SUST 217/HWST 207	
<b>Upper Division Major Core Courses (12 credits)</b>		
SUST 312/NREM 302* <sup>DS</sup>	SUST/ANTH 335* <sup>DS</sup>	SUST/OCN 442/TIM 462
SUST 314/GEO 302	SUST/ECON 350	SUST 456/HWST 458
SUST 316/NREM 306	SUST/NREM 358* <sup>DS</sup>	SUST/ECON 458
SUST/GEO 322* <sup>DS</sup>	SUST/POLS 380* <sup>DS</sup>	SUST/HWST 459
SUST/POLS 324* <sup>DS</sup>	SUST 413/GEO 411* <sup>DP</sup>	SUST 481/HIST 480/AMST 425* <sup>DH</sup>
SUST/COM 325	SUST/NREM 420	SUST/NREM 494
SUST 326/GEO 325* <sup>DS</sup>	SUST/GEO 426* <sup>DS</sup>	
SUST/GEO 330* <sup>DS</sup>	SUST/CEE/OCN 441	
<b>Major Electives: Select 2 Areas of Concentration (15 credits)</b>		
<b>Sustainable Environmental Policy</b>		
SUST 311/NREM 301	SUST/TIM/GEO 415	SUST 451/NREM 450
SUST 312/NREM 302	SUST/NREM 420	SUST/BOT/HWST 457
SUST 317/HWST 307	SUST 421/TIM 420	SUST/ECON 458
SUST 323/OCN 321	SUST/GEO 426* <sup>DS</sup>	SUST/HWST 459
SUST/NREM 358	SUST/CEE/OCN 441	SUST/NREM 480
SUST/POLS 380* <sup>DS</sup>	SUST/OCN 442/TIM 462	SUST/NREM 494
SUST 411/NREM 410	SUST/CEE 444	
<b>Food, Energy, and Water (FEW) Systems</b>		
SUST 315/GEO 305	SUST/ECON 332	SUST/PEPS/TPSS 371
SUST 320/PEPS 310	SUST/ANTH 335	SUST/PEPS/TPSS 410
SUST 323/OCN 321/PPC340	SUST/ECON/PPC 336	SUST 423/GEO 422
<b>From Global Issues to Local Action</b>		
SUST 314/GEO 302	SUST/GEO 332	SUST/GEO 426
SUST/GEO 322	SUST/GEO 333	SUST 427/ERTH 420
SUST/POLS 324	SUST/IS 340	SUST 461/ES 460
SUST 326/GEO 325	SUST/ECON 350	SUST/GES/ATMO 304
SUST/GEO 330	SUST/HIST 401	
<b>Sustainable Island Ecosystems</b>		
SUST 313/BOT 301	SUST/HWST 356	SUST 455/ES 355C
SUST 317/HWST 307	SUST 427/ERTH 420* <sup>DP</sup>	SUST 456/HWST 458
SUST 321/ES 320	SUST 445/BOT 444	SUST/BOT/HWST 457
SUST 341/ES 340	SUST/BOT 446	SUST/BOT/HWST 459
SUST 351/ES 350* <sup>DS</sup>	SUST/BOT 450/BIOL 454	SUST/BOT/HWST 460
<b>Environmental Justice, Values, and Ethics</b>		
SUST 316/NREM 306	SUST/SOC/WGSS 367	SUST 456/HWST 458
SUST 318/ES 308	SUST 414/OCN 411	SUST 461/ES 460
SUST/ANTH 335* <sup>DS</sup>	SUST/ART 439	SUST/ANTH 482
SUST/ANTH 338	SUST 455/ES 455C	SUST/ART 484

**University of Hawai‘i at Mānoa**  
**Office of Undergraduate Education Program Sheet 2020-2021**  
**Bachelor of Arts (BA) in Interdisciplinary Studies: Sustainability**  
**Admissions: Selective Process: Application**  
**Min. Total Credits: 120 (88 in core & major + 32 in electives)**

SUST/IS 340
<b>Climate Change</b>
SUST/ECON 332                      SUST 414/OCN 411                      SUST/CEE 440 SUST/ANTH 333                      SUST 427/ERTH 410                      SUST/GES/ATMO 304
<b>Capstone (3 credits)</b>
SUST 495
<i>Note: Refer to the Courses section in the Catalog for prerequisite information.</i>
Interdisciplinary Studies (IS) Program: Sinclair 108; (808) 956-7297; <a href="http://www.hawaii.edu/is">www.hawaii.edu/is</a> For degree advising, contact <a href="mailto:isp@hawaii.edu">isp@hawaii.edu</a> .

Rev. AS 6/2020



**University of Hawai‘i at Mānoa**  
**Office of Undergraduate Education Program Sheet 2020-2021**  
**Bachelor of Arts (BA) in Interdisciplinary Studies: Sustainability**  
**Admissions: Selective Process: Application**  
**Min. Total Credits: 120 (8879 in core & major + 41-32 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
FW ENG 100, 100A, 190, ESL 100, or AMST 111
FQ*
FG (A / B / C)
FG (A / B / C)
<i>*Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.</i>
<b>Diversification</b>
DA / DH / DL
DA / DH / DL
DB
DP
DY
DS
DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
<b>Focus</b>
H
E (300+)
O (300+)
W
W
W
W (300+)
W (300+)
Hawaiian / Second Language
101
102
201
202
Credit Minimums
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) credits
Grade Point Average
• 2.0 cumulative or higher ( <i>Note: Other GPAs may be required.</i> )
• Good academic standing

• 36 credits
• Minimum exit GPA: 2.5 in the major equivalent
• Minimum C grade (not C-) in courses
• Senior capstone project
• Mandatory advising
College Requirements
Credit Maximums
• 8 KRS activity
• 9 Directed Reading / Research
• 12 Practicum / Internship

*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.*

**Degree Requirements**

Admission: Open.		
Application: Not applicable		
Min. major credits: <del>4</del> 536		
<b>Requirements</b>		
<b>Major Pre-<del>R</del>erequisites (choose one from each or equivalent with approval, 9 credits)</b>		
<b>Economics:</b>	ECON 130* <sup>DS</sup> , SUST/NREM 220* <sup>DS</sup>	
<b>Statistics:</b>	BIOL/BOT 220, ECON 321* <sup>DS</sup> , NREM 310	
<b>Biology OR Chemistry:</b>	BIOL 101* <sup>DB</sup> , BIOL 171* <sup>DB</sup> , SUST 120/CHEM 110* <sup>DP</sup> , CHEM 161* <sup>DP</sup>	
<b>Major Foundation Course Requirements (choose from 2 colleges, 6 credits; at least 3 credits must be at 200-level)</b>		
SUST 112/OCN 102/GES 102* <sup>DB</sup>	SUST/REL 170	SUST 222/ES 221
SUST 114/PLAN 101	SUST/ANTH 204	SUST/SOCS/TAHR 250* <sup>DS</sup>
SUST 115/OCN 105	SUST/NREM/PEPS 210	SUST/NREM/TPSS 251
SUST 116/ERTH 106* <sup>DP</sup>	SUST 211/TPSS 200* <sup>DB</sup>	SUST/IS 260
SUST/HIST 157	SUST 217/HWST 207	
<b>Upper Division Major Core Courses (12 credits)</b>		
SUST 312/NREM 302* <sup>DS</sup>	SUST/ANTH 335* <sup>DS</sup>	SUST/OCN 442/TIM 462
SUST 314/GEO 302	SUST/ECON 350	SUST 456/HWST 458
SUST 316/NREM 306	SUST/NREM 358* <sup>DS</sup>	SUST/ECON 458
SUST/GEO 322* <sup>DS</sup>	SUST/POLS 380* <sup>DS</sup>	SUST/HWST 459
SUST/POLS 324* <sup>DS</sup>	SUST 413/ <u>GEO 411</u> * <sup>DP</sup>	———— SUST 481/HIST 480/AMST 425* <sup>DH</sup>
SUST/COM 325	SUST/NREM 420	SUST/NREM 494
SUST 326/GEO 325* <sup>DS</sup>	SUST/GEO 426* <sup>DS</sup>	
SUST/GEO 330* <sup>DS</sup>	SUST/CEE/OCN 441	
<b>Major Electives: Select 2 Areas of Concentration (15 credits)</b>		
<b>Sustainable Environmental Policy</b>		
SUST 311/NREM 301	SUST/TIM/GEO 415	SUST 451/NREM 450
SUST 312/NREM 302	SUST/NREM 420	SUST/BOT/HWST 457
SUST 317/HWST 307	SUST 421/TIM 420	SUST/ECON 458
SUST 323/OCN 321	SUST/GEO 426* <sup>DS</sup>	SUST/HWST 459
SUST/NREM 358	SUST/CEE/OCN 441	SUST/NREM 480
SUST/POLS 380* <sup>DS</sup>	SUST/OCN 442/TIM 462	SUST/NREM 494
SUST 411/NREM 410	SUST/CEE 444	
<b>Food, Energy, and Water (FEW) Systems</b>		
SUST 315/GEO 305	SUST/ECON 332	SUST/PEPS/TPSS 371
SUST 320/PEPS 310	SUST/ANTH 335	SUST/PEPS/TPSS 410
SUST 323/OCN 321/PPC340	SUST/ECON/PPC 336	SUST 423/GEO 422
<b>From Global Issues to Local Action</b>		
SUST 314/GEO 302	SUST/GEO 332	SUST/GEO 426
SUST/GEO 322	SUST/GEO 333	SUST 427/ERTH 420
SUST/POLS 324	SUST/IS 340	SUST 461/ES 460
SUST 326/GEO 325	SUST/ECON 350	SUST/GES/ATMO 304
SUST/GEO 330	SUST/HIST 401	
<b>Sustainable Island Ecosystems</b>		
SUST 313/BOT 301	SUST/HWST 356	SUST 455/ES 355C
SUST 317/HWST 307	SUST 427/ERTH 420* <sup>DP</sup>	SUST 456/HWST 458
SUST 321/ES 320	SUST 445/BOT 444	SUST/BOT/HWST 457
SUST 341/ES 340	SUST/BOT 446	SUST/BOT/HWST 459
SUST 351/ES 350* <sup>DS</sup>	SUST/BOT 450/BIOL 454	SUST/BOT/HWST 460
<b>Environmental Justice, Values, and Ethics</b>		
SUST 316/NREM 306	SUST/SOC/W <u>GSS</u> 367	———— SUST 456/HWST 458
SUST 318/ES 308	SUST 414/OCN 411	SUST 461/ES 460
SUST/ANTH 335* <sup>DS</sup>	SUST/ART 439	SUST/ANTH 482
SUST/ANTH 338	SUST 455/ES 455C	SUST/ART 484

**University of Hawai‘i at Mānoa**  
**Office of Undergraduate Education Program Sheet 2020-2021**  
**Bachelor of Arts (BA) in Interdisciplinary Studies: Sustainability**  
**Admissions: Selective Process: Application**  
**Min. Total Credits: 120 (8879 in core & major + 4132 in electives)**

SUST/IS 340
<b>Climate Change</b>
SUST/ECON 332                      SUST 414/OCN 411                      SUST/CEE 440 SUST/ANTH 333                      SUST 427/ERTH 410                      SUST/GES/ATMO 304
<b>Capstone (3 credits)</b>
SUST 495
<i>Note: Refer to the Courses section in the Catalog for prerequisite information.</i>
Interdisciplinary Studies (IS) Program: Sinclair 108; (808) 956-7297; <a href="http://www.hawaii.edu/is">www.hawaii.edu/is</a> For degree advising, contact <a href="mailto:isp@hawaii.edu">isp@hawaii.edu</a> .

Rev. AS 6/2020

**University of Hawai‘i at Mānoa – Four-Year Academic Plan 2022-2023**  
**Interdisciplinary Studies Program**  
**Bachelor of Arts (BA) in Sustainability**

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	
<b>Fall</b>		<b>Fall</b>		<b>Fall</b>		<b>Fall</b>	
Major Prereq DS	3	Major Prereq	3	Upper Division Major	3	Capstone	3
Major Foundation	3	Major Foundation	3	Major Elective (Area 1)	3	Upper Division Major	3
FW	3	H	3	E (300+)	3	Major Elective DS (Area	3
HSL 101	3	DA/DH/DL	3	O (300+)	3	W	3
FGA/B/C	3	HSL 201	3	W	3	W (300+)	3
Credits	15	Credits	15	Credits	15	Credits	15
<b>Spring</b>		<b>Spring</b>		<b>Spring</b>		<b>Spring</b>	
Major Prereq	3	Major Foundation (200+)	3	Upper Division Major	3	Upper Division Major	3
Major Foundation	3	DA/DH/DL	3	Major Elective (Area 1)	3	Major Elective (Area 2)	3
FQ	3	DS	3	Major Elective DB (Area	3	W (300+)	3
HSL 102	3	DY	3	W	3	Elective	3
FGA/B/C	3	HSL 202	3	DP	3	Elective	3
Credits	15	Credits	15	Credits	15	Credits	15
<b>Summer</b>		<b>Summer</b>		<b>Summer</b>		<b>Summer</b>	
Credits	0	Credits	0	Credits	0	Credits	0
<b>Total Credits</b>	<b>30</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 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.

**University of Hawai‘i at Mānoa – Four-Year Academic Plan 2022-2023**  
**Interdisciplinary Studies Program**  
**Bachelor of Arts (BA) in Sustainability**

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	
<b>Fall</b>		<b>Fall</b>		<b>Fall</b>		<b>Fall</b>	
Major Pre-Req <b>DS</b>	3	Major Pre-Req	3	Upper Division Major	3	Capstone	3
Major Foundation	3	Major Foundation	3	Major Elective (Area 1)	3	Upper Division Major	3
FW	3	H	3	E (300+)	3	Major Elective DS (Area	3
HSL 101	3	DA/DH/DL	3	O (300+)	3	W	3
FGA/B/C	3	HSL 201	3	W	3	W (300+)	3
Credits	15	Credits	15	Credits	15	Credits	15
<b>Spring</b>		<b>Spring</b>		<b>Spring</b>		<b>Spring</b>	
Major Pre-Req	3	Major Foundation (200+)	3	Upper Division Major	3	Upper Division Major	3
Major Foundation	3	DA/DH/DL	3	Major Elective (Area 1)	3	Major Elective (Area 2)	3
FQ	3	DS	3	Major Elective DB (Area	3	W (300+)	3
HSL 102	3	DY	3	W	3	Elective	3
FGA/B/C	3	HSL 202	3	DP	3	Elective	3
Credits	15	Credits	15	Credits	15	Credits	15
<b>Summer</b>		<b>Summer</b>		<b>Summer</b>		<b>Summer</b>	
Credits	0	Credits	0	Credits	0	Credits	0
<b>Total Credits</b>	<b>30</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 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.

### Course Programming for BA in IS: Sustainability

88 core and major credits, 41 elective credits  
Minimum 120 total, of which 45 need to be upper division

#### I. GENERAL EDUCATION REQUIREMENTS

<http://www.catalog.hawaii.edu/corerequirements/coreRequirements.html>

- A. FOUNDATIONS REQUIREMENTS
  - Written Communication (FW; 3 credits)
  - Quantitative Reasoning (FQ; 3 credits)
  - Global and Multicultural Perspectives (FGA, FGB, FGC; 6 credits)
- B. DIVERSIFICATION REQUIREMENTS
  - Arts, Humanities, and Literatures (6 credits from 2 categories)
    - Arts (DA)
    - Humanities (DH)
    - Literatures (DL)
  - Social Sciences (DS; a total of 6 credits from 2 different departments)
  - Natural Sciences
    - Biological Science (DB; 3 credits)
    - Physical Science (DP; 3 credits)
    - Laboratory (science) (DY; 1 credit)
- C. FOCUS REQUIREMENTS (Instructor specific)
  - Contemporary Ethical Issues (E or ETH; 1 course, 300- or 400-level)
  - Hawaiian, Asian, and Pacific Issues (H or HAP; 1 course, any level)
  - Oral Communication (O or OC; 1 course, 300- or 400-level)
  - Writing Intensive (W or WI; 5 courses, at least two of which are at the 300- or 400-level)
- D. HAWAIIAN/SECOND LANGUAGE REQUIREMENT
  - HSL; competence at the 202 level

#### II. MAJOR PREREQUISITE COURSES

Nine credits of prerequisite courses are required for completion of the major and can be taken concurrently with lower-division major coursework.

##### Economics

- ECON 130 Principles of Microeconomics (3) DS
- OR SUST 220/NREM 220 Agricultural and Resource Economics (3) DS
- OR equivalent/higher level microeconomics course with approval

AND

##### Statistics

- BIOL 220/BOT 220 Biostatistics (3)
  - PRE: BIOL 171, 172 or BOT 101; and BIOL/BOT 220L (or concurrent) and MATH 134 or MATH assessment exam (with score required for MATH 140)
- OR ECON 321 Introduction to Statistics (3) DS
- OR NREM 310 Statistics in Agriculture and Human Resources (3)
- OR equivalent/higher level statistics course with approval [e.g., BUS 310, GEO 380, PSY 225, PH 350, SOCS 225, SOC 176, PH 210, BUS 250, ANTH 220]

AND

##### Biology

- BIOL 101 Biology and Society (3) DB [for gen ed: BIOL 101L Lab (1) DY]
- OR BIOL 171 Introduction to Biology I (3) DB [for gen ed: BIOL 171L Lab (1) DY]
  - PRE: CHEM 131, 151, 161, 171 or 181A or concurrent, and BIOL 171L (concurrent), or consent
- OR equivalent/higher level course biology course with approval

OR

##### Chemistry

- SUST 120/CHEM 110 Chemistry in a Sustainable World (3) DP

PRE: Related to Chem 100, see catalog

- OR CHEM 161 General Chemistry I (3) DP
- OR equivalent/higher level chemistry course with approval

Note: Prerequisites replace prior "Introductory Foundation Courses."

### III. MAJOR FOUNDATION COURSE REQUIREMENTS (6)

Select two 3-credit courses from below. Where relevant, classes are related to upper-division areas of concentration for advising purposes. At least 3 credits must be at the 200 level. Courses must be taken from two different colleges.

- SUST112/OCN102/GES102 Introduction to the Environment, Climate Change and Sustainability DB – *All/Sustainable Environmental Policy*
- SUST251/NREM251/TPSS251 Scientific Principles of Sustainability – *All/Sustainable Environmental Policy*
- \*SUST116/ERTH106 Humans and the Environment DP – *All/Sustainable Environmental Policy*
- \*SUST210/NREM210/PEPS210 Introduction to Environmental Science – *All/Sustainable Environmental Policy*
- SUST250/SOCS250/TAHR250 Introduction to Sustainability from Social Science Perspectives DS – *Sustainable Environmental Policy/ Environmental Justice, Values, and Ethics*
- \*SUST211/TPSS200 Agriculture, Environment, and Society DB - *Food, Energy, and Water (FEW) Systems*
- \*SUST114/PLAN101 Sustainable Cities - *Sustainable Environmental Policy/From Global Issues to Local Action*
- \*SUST115/OCN105 Sustainability in a Changing World FGA - *From Global Issues to Local Action*
- \*SUST157/HIST157 Global Environmental History FGC – *All/From Global Issues to Local Action*
- SUST217/HWST 207 Hawaiian Perspectives in Ahupua'a - *Sustainable Island Ecosystems*  
PRE: HWST 107
- \*SUST204/ANTH204 Historical Ecology of Hawai'i - *Sustainable Island Ecosystems*
- \*SUST222/ES221 Hawaiians - *Sustainable Island Ecosystems*
- \*SUST170/REL170 Religion and the Environment - *Environmental Justice, Values, and Ethics*
- \*SUST260/IS260 Introduction to Environmental Humanities - *Environmental Justice, Values, and Ethics*

Note: Asterisks (\*) notes courses that have been added.

### IV. UPPER-DIVISION MAJOR CORE COURSES (12)

Select four 3-credit courses from the list below. Some courses appear in major electives but must be counted towards either major core courses or major elective, but not both.

- SUST312/NREM302 (3) Natural Resource and Environmental Policy DS  
PRE: SUST/NREM/PEPS 210 or (BIOL 101 or higher) or GEO 101 or (GG 101 or higher); and 220/NREM 220 or one ECON course or two DS courses
- SUST314/GEO302 (3) Global Environmental Issues
- SUST316/NREM306 Environmental Ethics  
PRE: NREM 210 or GEO 101 or PHIL 101 or PHIL 103
- SUST322/GEO322 (3) Globalization and Environment DS  
PRE: Junior standing or higher
- SUST324/POLS324 (3) Global Environmental Politics DS
- SUST 325/COM 325 (3) Communicating Sustainability  
PRE: COM 201 (with a minimum grade of B) or consent.
- SUST326/GEO325 (3) Geography, Environment, and Society DS
- SUST330/GEO 330 (3) Culture and Environment DS
- SUST335/ANTH335 (3) Society and Environment DS  
PRE: ANTH 152
- SUST350/ECON350 (3) Sustainable Development  
PRE: ECON 120 or 130 or 131, or consent
- SUST380/POLS380 (3) Environmental Law and Politics DS
- SUST 413/GEO 411 Past Global Change and the Human Era DP  
PRE: Junior standing or higher, or consent
- SUST420/NREM420 Community and Natural Resource Management  
PRE: two social science courses or consent
- SUST426/GEO426 (3) Environment, Resources and Society DS

- PRE: 102, 151, or consent
- SUST441/CEE 441/OCN441 (3) Principles of Sustainability Analysis  
PRE: CHEM 161 and PHYS 170 with a minimum grade of C-; or consent
- SUST442/OCN442/TIM462 (3) Environmental Management Systems  
PRE: Junior standing or higher
- SUST456/HWST 458 (4) Natural Resource Issues and Ethics  
PRE: HWST 207 or HWST 307 or HWST 356
- SUST 481/HIST480/AMST425 American Environmental History DH
- SUST494/NREM494 (3) Environmental Problem Solving  
PRE: NREM 310, 301/SUST 311 (or concurrent), 302/SUST 312 (or concurrent), and senior; or consent

## V. MAJOR ELECTIVES (15)

Select five 3-credit courses from two areas of concentrations. Some courses also appear in major electives but must be counted towards either major core courses or major elective, but not both. Substitutions with other upper-division SUST courses with approval.

### Sustainable Environmental Policy

- SUST311/NREM301 Natural Resource Management  
PRE: NREM/TPSS 251 or 210; CHEM 151 or higher; and BIOL 172; or consent
- SUST312/NREM302 Natural Resource and Environmental Policy  
PRE: SUST/NREM/PEPS 210 or (BIOL 101 or higher) or GEO 101 or (GG 101 or higher); and 220/NREM 220 or one ECON course or two DS courses
- SUST317/HWST307 Mālama 'Āina Resource Management Visual Technologies  
PRE: HWST 107
- SUST323/OCN321 Applied Principles of Environmental & Energy Policy  
PRE: any 100 or 200 level OCN course, or consent.
- SUST358/NREM358 Basic Environmental Benefit Cost Analysis  
PRE: NREM 220/NREM 220 or ECON 130 or consent
- SUST380/POLS380 Environmental Law and Politics
- SUST411/NREM410 (4) Methods in Wildlife Management & Conservation  
PRE: BIOL 171
- SUST415/TIM415/GEO415 Nature-Based Tourism Management  
PRE: TIM 101 or GEO/TIM 324
- SUST420/NREM420 Community and Natural Resource Management  
PRE: two social science courses or consent
- SUST 421/TIM420 Sustainable Tourism Policies and Practices  
PRE: 101 and departmental approval
- SUST426/GEO426 Environment, Resources and Society  
PRE: 102, 151, or consent
- SUST441/CEE441/OCN441 Principles of Sustainability Analysis  
PRE: CHEM 161 and PHYS 170 with a minimum grade of C-; or consent
- SUST 442/OCN 442/TIM 462 Principles of Environmental Management Systems  
PRE: Junior standing or higher
- SUST444/CEE444 Infrastructure: Project Impacts, Policy and Sustainability  
PRE: senior standing, open to engineering, science, urban planning, and economics majors
- SUST451/NREM450 Wildlife Ecology and Management  
PRE: BIOL172 or consent
- SUST457/BOT457/HWST457 'Āina Mauliloa: Hawaiian Ecosystems  
PRE: BOT 105 or 107, HWST 107, and junior standing; or consent
- SUST458/ECON458 Project Evaluation and Resource Management  
PRE: ECON 301
- SUST459/HWST459 Strategies in Hawaiian Resource Use  
PRE: HWST 207 or HWST 307 or HWST 356
- SUST480/NREM480 Applied Forest Ecology  
PRE: NREM 301/SUST 311 and NREM 380 or consent
- SUST494/NREM494 Environmental Problem Solving  
PRE: NREM 310, 301/SUST 311 (or concurrent), 302/SUST 312 (or concurrent), and senior; or consent



**Food, Energy, and Water (FEW) Systems**

SUST315/GEO305 Water and Society

PRE: sophomore standing or higher, or consent

SUST320/PEPS310 Environment and Agriculture

SUST323/OCN321/PPC340 Applied Principles of Environmental & Energy Policy

PRE: any 100 or 200 level OCN course, or consent.

SUST332/ECON332 Economics of Global Climate Change

PRE: ECON 120 or 130 or 131, or consent

SUST 335/ANTH 335 Society and Environment

PRE: ANTH 152

SUST336/ECON336/PPC336 Energy Economics and Policy

PRE: ECON 120 or 130 or 131

SUST371/PEPS371/TPSS371 Genetics: Theory to Application

SUST410/PEPS410/TPSS410 (2) Sustainable Soil and Plant Health Management

SUST423/GEO422 Agriculture, Food and Society

PRE: junior standing or higher, or consent

**From Global Issues to Local Action**

SUST314/GEO302 Global Environmental Issues

SUST322/GEO322 Globalization and the Environment

PRE: Junior standing or higher

SUST324/POLS324 Global Environmental Politics

SUST326/GEO325 Geography, Environment, and Society

SUST330/GEO330 Culture and Environment

PRE: 102, 151, or consent

SUST332/ECON332 Economics of Global Climate Change

PRE: 120 or 130 or 131, or consent

SUST333/ANTH333 Climate Change and Cultural Response: Past, Present and Future

SUST340/IS340 Human Values and the Environment

PRE: any ENG DL or PHIL or GEO course, or consent.

SUST350/ECON350 Sustainable Development

PRE: ECON 120 or 130 or 131, or consent

SUST 401/HIST 401 History of the Indian Ocean World

PRE: junior or senior standing or consent

SUST426/GEO426 Environment, Resources and Society

PRE: 102, 151, or consent

SUST427/ERTH420 Beaches, Reefs, and Climate Change DP

PRE: Junior standing or higher, or consent

SUST461/ES460 Global Ethnic Conflict

PRE: one DS or DH course or consent.

SUST304/GES304/ATMO304 Global and Local Perspectives on Severe Weather

**Sustainable Island Ecosystems**

SUST317/HWST307 Mālama 'Āina Resource Management Visual Technologies

PRE: HWST 107

SUST313/BOT301 Plant Conservation Biology

PRE: BOT/BIOL305 or consent. Co-req: BOT301L

SUST321/ES320 Hawai'i and the Pacific

PRE: One DS or DH course

SUST341/ES340 Land Tenure and Use in Hawai'i

PRE: One DS or DH course

SUST351/ES350 Economic Change and Hawai'i's People DS

PRE: one DS or DH course

SUST356/HWST356 Aloha Kanaloa – Marine Resources and Abundance

PRE: HWST 107

SUST427/ERTH420 Beaches, Reefs, and Climate Change DP

PRE: Junior standing or higher, or consent

- SUST445/BOT444 Ethnoecology and Conservation  
PRE: BOT 202/202L or BIOL 265/265L or consent
- SUST446/BOT446 Hawaiian Ethnobotany  
PRE: BOT 440 or consent
- SUST450/BOT450/BIOL454 Natural History of Hawaiian Islands  
PRE: one semester of biological sciences at college level
- SUST 455/ES455C Topics in Comparative Ethnic Conflict: Hawaiian Sovereignty in the Pacific Context  
PRE: one DS or DH course, or consent
- SUST456/HWST458 Natural Resource Issues and Ethics  
PRE:217/HWST207 or 317/HWST307 or SUST/HWST356
- SUST457/BOT457/HWST457 `Āina Mauliōla: Hawaiian Ecosystems  
PRE: BOT 105 or 107, HWST 107, and junior standing; or consent
- SUST459/HWST459 Strategies in Hawaiian Resource Use  
PRE: HWST 207 or HWST 307 or HWST 356
- SUST 460/BOT 460/HWST 460 Hui Konohiki Practicum  
PRE: HWST 207 or HWST 307 or HWST 356

### **Environmental Justice, Values, and Ethics**

- SUST316/NREM306 Environmental Ethics  
PRE: NREM 210 or GEO 101 or PHIL 101 or PHIL 103
- SUST318/ES308 Race, Indigeneity and Environmental Justice  
PRE: one DS or DH course, or consent
- SUST335/ANTH335 Society and Environment DS  
PRE: ANTH 152
- SUST338/ART338 Inter-Woven Structures  
PRE: Sophomore standing or higher
- SUST340/IS340 Human Values and the Environment  
PRE: any ENG DL or PHIL or GEO course, or consent.
- SUST367/SOC367/WGSS367 Sustainability, Technoscience and Social Justice  
PRE: SOC 151 or any 200- or 300-level WS course, or 100 or any 200-level SOC course, or consent
- SUST414/OCN 411 The Ethics of Climate Change and Geoengineering  
PRE: 310
- SUST455/ES455C Topics in Comparative Ethnic Conflict: Hawaiian Sovereignty in the Pacific Context  
PRE: one DS or DH course, or consent
- SUST456/HWST458 Natural Resource Issues and Ethics  
PRE:217/HWST207 or 317/HWST307 or SUST/HWST356
- SUST461/ES460 Global Ethnic Conflict  
PRE: One DS or DH course or consent
- SUST482/ANTH482 Anthropology and the Environment: Culture, Power and Politics DS  
PRE: ANTH 152 or 415 or consent
- SUST484/ART484 Contemporary Art and Ecology
- SUST439/Art439 Installation/Performance-Material in Context  
PRE: ART 116

### **Climate Change**

- SUST332/ECON332 Economics of Global Climate Change  
PRE: 120 or 130 or 131, or consent
- SUST333/ANTH333 Climate Change and Cultural Response: Past, Present and Future
- SUST 414/OCN 411 The Ethics of Climate Change and Geoengineering  
PRE: 310
- SUST427/ERTH420 Beaches, Reefs, and Climate Change DP  
PRE: Junior standing or higher, or consent
- SUST440/CEE440 Vulnerability and Adaptation on Coastal Infrastructure  
PRE: Senior standing or higher
- SUST304/GES304/ATMO304 Global and Local Perspectives on Severe Weather

**VI. CAPSTONE (3)**

SUST 495 Sustainability Capstone

**VI. CURRENT SUST COURSES**

<p><b>100-Level</b>  SUST 101 Dynamic Earth  SUST 102 The Natural Environment DP  SUST 170 Religion and the Environment  SUST 103 Integrative Systems Biology (4) DB  SUST 111L Biology and Society Laboratory (1) DY  SUST 112 Introduction to the Environment and Sustainability DB  SUST 112L Introduction to the Environment and Sustainability (1) DY  SUST 113 Quantifying Global and Environmental Change FQ  SUST 114 Sustainable Cities  SUST 115 Sustainability in a Changing World FGA  SUST 116 Humans and the Environment DP  SUST 120 Chemistry in a Sustainable World DP  SUST 156 Sustainable Food and Energy Field Course (V) DB  SUST 157 Global Environmental History FGC</p>	<p><b>200-Level</b>  SUST 204 Historical Ecology of Hawai'i  SUST 210 Introduction to Environmental Science DB  SUST 211 Agriculture, Environment, and Society DB  SUST 217 Hawaiian Perspectives in Ahupua'a  SUST 220 Agricultural and Resource Economics DS  SUST 221 Organic Food Crop Production (2) DY  SUST 222 Hawaiians DS  SUST 250 Introduction to Sustainability from Social Science Perspectives DS  SUST 251 Scientific Principles of Sustainability DB  SUST 260 Introduction to Environmental Humanities</p>
<p><b>300-Level</b>  SUST 304 Global and Local Perspectives on Severe Weather DP  SUST 310 Conservation Ethics (1)  SUST 311 Natural Resources Management DB  SUST 312 Natural Resource and Environmental Policy DS  SUST 313 Plant Conservation Biology DB  SUST 313L Plant Conservation Biology Lab (1) DY  SUST 314 Global Environmental Issues  SUST 315 Water and Society DS  SUST 316 Environmental Ethics  SUST 317 Mālama 'Āina Resource Management Visual Technologies  SUST 318 Race, Indigeneity, and Environmental Justice DS  SUST 320 Environment and Agriculture DS  SUST 321 Hawai'i and the Pacific DH  SUST 322 Globalization and Environment DS  SUST 323 Applied Principles of Environmental &amp; Energy Policy DS  SUST 324 Global Environmental Politics DS  SUST 325 Communicating Sustainability  SUST 326 Geography, Environment, and Society DS  SUST 330 Culture and Environment DS  SUST 332 Economics of Global Climate Change DS  SUST 333 Climate Change and Cultural Response: Past, Present, and Future DS  SUST 335 Society and Environment DS  SUST 336 Energy Economics DS  SUST 338 Inter-Woven Structures DA  SUST 340 Human Values and the Environment  SUST 341 Land Tenure and Use in Hawai'i DH  SUST 350 Sustainable Development DS  SUST 351 Economic Change and Hawai'i's People DS  SUST 356 Aloha Kanaloa – Marine Resources and Abundance  SUST 358 Basic Environmental Benefit Cost Analysis DS  SUST 367 Sustainability, Technoscience, and Social Justice DS</p>	<p><b>400-Level</b>  SUST 484 Contemporary Art and Ecology  SUST 401 History of the Indian Ocean World DH  SUST 410 Sustainable Soil and Plant Health Management  SUST 411 Methods in Wildlife Management &amp; Conservation  SUST 412 The Ocean Economy DS  SUST 413 Past Global Change and the Human Era DP  SUST 414 The Ethics of Climate Change and Geoengineering  SUST 415 Nature-Based Tourism Management DS  SUST 420 Community and Natural Resource Management DS  SUST 421 Sustainable Tourism Policies and Practices  SUST 422 Biocontrol of Invasive Species DB  SUST 423 Agriculture, Food and Society DS  SUST 425 Environmental Geochemistry DP  SUST 426 Environment, Resources and Society DS  SUST 427 Beaches, Reefs, and Climate Change DP  SUST 433 Interdisciplinary Science Curriculum  SUST 436 Use, Re-use, and Radical Re-use DA  SUST 439 Installation/Performance--Material in Context DA  SUST 440 Vulnerability &amp; Adaptation on Coastal Infrastructure  SUST 441 Principles of Sustainability Analysis  SUST 442 Environmental Management Systems  SUST 444 Infrastructure: Project Impacts, Policy and Sustainability  SUST 445 Ethnoecology and Conservation DB  SUST 446 Hawaiian Ethnobotany DS  SUST 449 Climate Modeling, Data Analysis and Applications (Major Restriction)  SUST 450 Natural History of Hawaiian Islands DB  SUST 451 Wildlife Ecology and Management  SUST 455 Topics in Comparative Ethnic Conflict: Hawaiian Sovereignty in Pacific Context DS  SUST 456 Natural Resource Issues and Ethics (4)  SUST 457 'Āina Mauliōla: Hawaiian Ecosystems  SUST 458 Project Evaluation and Resource</p>

SUST 371 Genetics: Theory to Application SUST 380 Environmental Law and Politics DS SUST 387 Politics of the Ocean DS	Management DS SUST 459 Strategies in Hawaiian Resource Use SUST 460 Hui Konohiki Practicum SUST 461 Global Ethnic Conflict SUST 480 Applied Forest Ecology SUST 481 American Environmental History DH SUST 482 Anthropology and the Environment: Culture, Power and Politics DS SUST 484 Contemporary Art and Ecology DH SUST 494 Environmental Problem Solving SUST 496 Sustainability & Resilience Seminar (1)
---	--

**Course Programming for BA in IS: Sustainability**

79-88 core and major credits, 41 elective credits

Minimum 120 total, of which 45 need to be upper division

**I. GENERAL EDUCATION REQUIREMENTS**<http://www.catalog.hawaii.edu/corerequirements/coreRequirements.html>

- A. FOUNDATIONS REQUIREMENTS
- Written Communication (FW; 3 credits)
  - Quantitative Reasoning (FQ; 3 credits)
  - Global and Multicultural Perspectives (FGA, FGB, FGC; 6 credits)
- B. DIVERSIFICATION REQUIREMENTS
- Arts, Humanities, and Literatures (6 credits from 2 categories)
    - Arts (DA)
    - Humanities (DH)
    - Literatures (DL)
  - Social Sciences (DS; a total of 6 credits from 2 different departments)
  - Natural Sciences
    - Biological Science (DB; 3 credits)
    - Physical Science (DP; 3 credits)
    - Laboratory (science) (DY; 1 credit)
- C. FOCUS REQUIREMENTS (Instructor specific)
- Contemporary Ethical Issues (E or ETH; 1 course, 300- or 400-level)
  - Hawaiian, Asian, and Pacific Issues (H or HAP; 1 course, any level)
  - Oral Communication (O or OC; 1 course, 300- or 400-level)
  - Writing Intensive (W or WI; 5 courses, at least two of which are at the 300- or 400-level)
- D. HAWAIIAN/SECOND LANGUAGE REQUIREMENT
- HSL; competence at the 202 level

**II. MAJOR PRE-REQUISITE COURSES**

Nine credits of pre-requisite courses are required for completion of the major and can be taken concurrently with lower-division major coursework.

**Economics**

- ECON 130 Principles of Microeconomics (3) DS
- OR SUST 220/NREM 220 Agricultural and Resource Economics (3) DS
- OR equivalent/higher level microeconomics course with approval

AND

**Statistics**

- BIOL 220/BOT 220 Biostatistics (3)
  - PRE: BIOL 171, 172 or BOT 101; and BIOL/BOT 220L (or concurrent) and MATH 134 or MATH assessment exam (with score required for MATH 140)
- OR ECON 321 Introduction to Statistics (3) DS
- OR NREM 310 Statistics in Agriculture and Human Resources (3)
- OR equivalent/higher level statistics course with approval [e.g., BUS 310, GEO 380, PSY 225, PH 350, SOCS 225, SOC 176, PH 210, BUS 250, ANTH 220]

AND

**Biology**

- BIOL 101 Biology and Society (3) DB [for gen ed: BIOL 101L Lab (1) DY]
- OR BIOL 171 Introduction to Biology I (3) DB [for gen ed: BIOL 171L Lab (1) DY]
  - PRE: CHEM 131, 151, 161, 171 or 181A or concurrent, and BIOL 171L (concurrent), or consent
- OR equivalent/higher level course biology course with approval

OR

**Chemistry**

- SUST 120/CHEM 110 Chemistry in a Sustainable World (3) DP

PRE: Related to Chem 100, see catalog

- OR CHEM 161 General Chemistry I (3) DP
- OR equivalent/higher level chemistry course with approval

Note: Pre-requisites replace prior "Introductory Foundation Courses."

### III. MAJOR FOUNDATION COURSE REQUIREMENTS (6)

Select two 3-credit courses from below. Where relevant, classes are related to upper-division areas of concentration for advising purposes. At least 3 credits must be at the 200 level. Courses must be taken from two different colleges.

- SUST112/OCN102/GES102 Introduction to the Environment, Climate Change and Sustainability DB – *All/Sustainable Environmental Policy*
- SUST251/NREM251/TPSS251 Scientific Principles of Sustainability – *All/Sustainable Environmental Policy*
- \*SUST116/ERTH106 Humans and the Environment DP – *All/Sustainable Environmental Policy*
- \*SUST210/NREM210/PEPS210 Introduction to Environmental Science – *All/Sustainable Environmental Policy*
- SUST250/SOCS250/TAHR250 Introduction to Sustainability from Social Science Perspectives DS – *Sustainable Environmental Policy/ Environmental Justice, Values, and Ethics*
- \*SUST211/TPSS200 Agriculture, Environment, and Society DB - *Food, Energy, and Water (FEW) Systems*
- \*SUST114/PLAN101 Sustainable Cities - *Sustainable Environmental Policy/From Global Issues to Local Action*
- \*SUST115/OCN105 Sustainability in a Changing World FGA - *From Global Issues to Local Action*
- \*SUST157/HIST157 Global Environmental History FGC – *All/From Global Issues to Local Action*
- SUST217/HWST 207 Hawaiian Perspectives in Ahupua'a - *Sustainable Island Ecosystems*  
PRE: HWST 107
- \*SUST204/ANTH204 Historical Ecology of Hawai'i - *Sustainable Island Ecosystems*
- \*SUST222/ES221 Hawaiians - *Sustainable Island Ecosystems*
- \*SUST170/REL170 Religion and the Environment - *Environmental Justice, Values, and Ethics*
- \*SUST260/IS260 Introduction to Environmental Humanities - *Environmental Justice, Values, and Ethics*

Note: Asterisks (\*) notes courses that have been added.

### IV. UPPER-DIVISION MAJOR CORE COURSES (12)

Select four 3-credit courses from the list below. Some courses appear in major electives but must be counted towards either major core courses or major elective, but not both.

- SUST312/NREM302 (3) Natural Resource and Environmental Policy DS  
PRE: SUST/NREM/PEPS 210 or (BIOL 101 or higher) or GEO 101 or (GG 101 or higher); and 220/NREM 220 or one ECON course or two DS courses
- SUST314/GEO302 (3) Global Environmental Issues
- SUST316/NREM306 Environmental Ethics  
PRE: NREM 210 or GEO 101 or PHIL 101 or PHIL 103
- SUST322/GEO322 (3) Globalization and Environment DS  
PRE: Junior standing or higher
- SUST324/POLS324 (3) Global Environmental Politics DS
- SUST 325/COM 325 (3) Communicating Sustainability  
PRE: COM 201 (with a minimum grade of B) or consent.
- SUST326/GEO325 (3) Geography, Environment, and Society DS
- SUST330/GEO 330 (3) Culture and Environment DS
- SUST335/ANTH335 (3) Society and Environment DS  
PRE: ANTH 152
- SUST350/ECON350 (3) Sustainable Development  
PRE: ECON 120 or 130 or 131, or consent
- SUST380/POLS380 (3) Environmental Law and Politics DS
- SUST 413/GEO 411 Past Global Change and the Human Era DP  
PRE: Junior standing or higher, or consent
- SUST420/NREM420 Community and Natural Resource Management  
PRE: two social science courses or consent
- SUST426/GEO426 (3) Environment, Resources and Society DS

PRE: 102, 151, or consent  
 SUST441/CEE 441/OCN441 (3) Principles of Sustainability Analysis  
 PRE: CHEM 161 and PHYS 170 with a minimum grade of C-; or consent  
 SUST442/OCN442/TIM462 (3) Environmental Management Systems  
 PRE: Junior standing or higher  
 SUST456/HWST 458 (4) Natural Resource Issues and Ethics  
 PRE: HWST 207 or HWST 307 or HWST 356  
 SUST 481/HIST480/AMST425 American Environmental History DH  
 SUST494/NREM494 (3) Environmental Problem Solving  
 PRE: NREM 310, 301/SUST 311 (or concurrent), 302/SUST 312 (or concurrent), and senior; or consent

## V. MAJOR ELECTIVES (15)

Select five 3-credit courses from two areas of concentrations. Some courses also appear in major electives but must be counted towards either major core courses or major elective, but not both. Substitutions with other upper-division SUST courses with approval.

### Sustainable Environmental Policy

SUST311/NREM301 Natural Resource Management  
 PRE: NREM/TPSS 251 or 210; CHEM 151 or higher; and BIOL 172; or consent  
 SUST312/NREM302 Natural Resource and Environmental Policy  
 PRE: SUST/NREM/PEPS 210 or (BIOL 101 or higher) or GEO 101 or (GG 101 or higher); and 220/NREM 220 or one ECON course or two DS courses  
 SUST317/HWST307 Mālama 'Āina Resource Management Visual Technologies  
 PRE: HWST 107  
 SUST323/OCN321 Applied Principles of Environmental & Energy Policy  
 PRE: any 100 or 200 level OCN course, or consent.  
 SUST358/NREM358 Basic Environmental Benefit Cost Analysis  
 PRE: NREM 220/NREM 220 or ECON 130 or consent  
 SUST380/POLS380 Environmental Law and Politics  
 SUST411/NREM410 (4) Methods in Wildlife Management & Conservation  
 PRE: BIOL 171  
 SUST415/TIM415/GEO415 Nature-Based Tourism Management  
 PRE: TIM 101 or GEO/TIM 324  
 SUST420/NREM420 Community and Natural Resource Management  
 PRE: two social science courses or consent  
 SUST 421/TIM420 Sustainable Tourism Policies and Practices  
 PRE: 101 and departmental approval  
 SUST426/GEO426 Environment, Resources and Society  
 PRE: 102, 151, or consent  
 SUST441/CEE441/OCN441 Principles of Sustainability Analysis  
 PRE: CHEM 161 and PHYS 170 with a minimum grade of C-; or consent  
 SUST 442/OCN 442/TIM 462 Principles of Environmental Management Systems  
 PRE: Junior standing or higher  
 SUST444/CEE444 Infrastructure: Project Impacts, Policy and Sustainability  
 PRE: senior standing, open to engineering, science, urban planning, and economics majors  
 SUST451/NREM450 Wildlife Ecology and Management  
 PRE: BIOL172 or consent  
 SUST457/BOT457/HWST457 'Āina Mauliloa: Hawaiian Ecosystems  
 PRE: BOT 105 or 107, HWST 107, and junior standing; or consent  
 SUST458/ECON458 Project Evaluation and Resource Management  
 PRE: ECON 301  
 SUST459/HWST459 Strategies in Hawaiian Resource Use  
 PRE: HWST 207 or HWST 307 or HWST 356  
 SUST480/NREM480 Applied Forest Ecology  
 PRE: NREM 301/SUST 311 and NREM 380 or consent  
 SUST494/NREM494 Environmental Problem Solving  
 PRE: NREM 310, 301/SUST 311 (or concurrent), 302/SUST 312 (or concurrent), and senior; or consent

**Food, Energy, and Water (FEW) Systems**

SUST315/GEO305 Water and Society

PRE: sophomore standing or higher, or consent

SUST320/PEPS310 Environment and Agriculture

SUST323/OCN321/PPC340 Applied Principles of Environmental & Energy Policy

PRE: any 100 or 200 level OCN course, or consent.

SUST332/ECON332 Economics of Global Climate Change

PRE: ECON 120 or 130 or 131, or consent

SUST 335/ANTH 335 Society and Environment

PRE: ANTH 152

SUST336/ECON336/PPC336 Energy Economics and Policy

PRE: ECON 120 or 130 or 131

SUST371/PEPS371/TPSS371 Genetics: Theory to Application

SUST410/PEPS410/TPSS410 (2) Sustainable Soil and Plant Health Management

SUST423/GEO422 Agriculture, Food and Society

PRE: junior standing or higher, or consent

**From Global Issues to Local Action**

SUST314/GEO302 Global Environmental Issues

SUST322/GEO322 Globalization and the Environment

PRE: Junior standing or higher

SUST324/POLS324 Global Environmental Politics

SUST326/GEO325 Geography, Environment, and Society

SUST330/GEO330 Culture and Environment

PRE: 102, 151, or consent

SUST332/ECON332 Economics of Global Climate Change

PRE: 120 or 130 or 131, or consent

SUST333/ANTH333 Climate Change and Cultural Response: Past, Present and Future

SUST340/IS340 Human Values and the Environment

PRE: any ENG DL or PHIL or GEO course, or consent.

SUST350/ECON350 Sustainable Development

PRE: ECON 120 or 130 or 131, or consent

SUST 401/HIST 401 History of the Indian Ocean World

PRE: junior or senior standing or consent

SUST426/GEO426 Environment, Resources and Society

PRE: 102, 151, or consent

SUST427/ERTH420 Beaches, Reefs, and Climate Change DP

PRE: Junior standing or higher, or consent

SUST461/ES460 Global Ethnic Conflict

PRE: one DS or DH course or consent.

SUST304/GES304/ATMO304 Global and Local Perspectives on Severe Weather

**Sustainable Island Ecosystems**

SUST317/HWST307 Mālama 'Āina Resource Management Visual Technologies

PRE: HWST 107

SUST313/BOT301 Plant Conservation Biology

PRE: BOT/BIOL305 or consent. Co-req: BOT301L

SUST321/ES320 Hawai'i and the Pacific

PRE: One DS or DH course

SUST341/ES340 Land Tenure and Use in Hawai'i

PRE: One DS or DH course

SUST351/ES350 Economic Change and Hawai'i's People DS

PRE: one DS or DH course

SUST356/HWST356 Aloha Kanaloa – Marine Resources and Abundance

PRE: HWST 107

SUST427/ERTH420 Beaches, Reefs, and Climate Change DP

PRE: Junior standing or higher, or consent



- SUST445/BOT444 Ethnoecology and Conservation  
PRE: BOT 202/202L or BIOL 265/265L or consent
- SUST446/BOT446 Hawaiian Ethnobotany  
PRE: BOT 440 or consent
- SUST450/BOT450/BIOL454 Natural History of Hawaiian Islands  
PRE: one semester of biological sciences at college level
- SUST 455/ES455C Topics in Comparative Ethnic Conflict: Hawaiian Sovereignty in the Pacific Context  
PRE: one DS or DH course, or consent
- SUST456/HWST458 Natural Resource Issues and Ethics  
PRE:217/HWST207 or 317/HWST307 or SUST/HWST356
- SUST457/BOT457/HWST457 'Āina Mauliola: Hawaiian Ecosystems  
PRE: BOT 105 or 107, HWST 107, and junior standing; or consent
- SUST459/HWST459 Strategies in Hawaiian Resource Use  
PRE: HWST 207 or HWST 307 or HWST 356
- SUST 460/BOT 460/HWST 460 Hui Konohiki Practicum  
PRE: HWST 207 or HWST 307 or HWST 356

### **Environmental Justice, Values, and Ethics**

- SUST316/NREM306 Environmental Ethics  
PRE: NREM 210 or GEO 101 or PHIL 101 or PHIL 103
- SUST318/ES308 Race, Indigeneity and Environmental Justice  
PRE: one DS or DH course, or consent
- SUST335/ANTH335 Society and Environment DS  
PRE: ANTH 152
- SUST338/ART338 Inter-Woven Structures  
PRE: Sophomore standing or higher
- SUST340/IS340 Human Values and the Environment  
PRE: any ENG DL or PHIL or GEO course, or consent.
- SUST367/SOC367/WGSS367 Sustainability, Technoscience and Social Justice  
PRE: SOC 151 or any 200- or 300-level WS course, or 100 or any 200-level SOC course, or consent
- SUST414/OCN 411 The Ethics of Climate Change and Geoengineering  
PRE: 310
- SUST455/ES455C Topics in Comparative Ethnic Conflict: Hawaiian Sovereignty in the Pacific Context  
PRE: one DS or DH course, or consent
- SUST456/HWST458 Natural Resource Issues and Ethics  
PRE:217/HWST207 or 317/HWST307 or SUST/HWST356
- SUST461/ES460 Global Ethnic Conflict  
PRE: One DS or DH course or consent
- SUST482/ANTH482 Anthropology and the Environment: Culture, Power and Politics DS  
PRE: ANTH 152 or 415 or consent
- SUST484/ART484 Contemporary Art and Ecology
- SUST439/Art439 Installation/Performance-Material in Context  
PRE: ART 116

### **Climate Change**

- SUST332/ECON332 Economics of Global Climate Change  
PRE: 120 or 130 or 131, or consent
- SUST333/ANTH333 Climate Change and Cultural Response: Past, Present and Future
- SUST 414/OCN 411 The Ethics of Climate Change and Geoengineering  
PRE: 310
- SUST427/ERTH420 Beaches, Reefs, and Climate Change DP  
PRE: Junior standing or higher, or consent
- SUST440/CEE440 Vulnerability and Adaptation on Coastal Infrastructure  
PRE: Senior standing or higher
- SUST304/GES304/ATMO304 Global and Local Perspectives on Severe Weather

**VI. CAPSTONE (3)**

SUST 495 Sustainability Capstone

**VI. CURRENT SUST COURSES**

<p><b>100-Level</b>  SUST 101 Dynamic Earth  <u>SUST 102 The Natural Environment DP</u>  SUST 170 Religion and the Environment  SUST 103 Integrative Systems Biology (4) DB  SUST 111L Biology and Society Laboratory (1) DY  SUST 112 Introduction to the Environment and Sustainability DB  SUST 112L Introduction to the Environment and Sustainability (1) DY  SUST 113 Quantifying Global and Environmental Change FQ  SUST 114 Sustainable Cities  SUST 115 Sustainability in a Changing World FGA  SUST 116 Humans and the Environment DP  SUST 120 Chemistry in a Sustainable World DP  SUST 156 Sustainable Food and Energy Field Course (V) DB  SUST 157 Global Environmental History FGC</p>	<p><b>200-Level</b>  SUST 204 Historical Ecology of Hawai'i  SUST 210 Introduction to Environmental Science DB  SUST 211 Agriculture, Environment, and Society DB  SUST 217 Hawaiian Perspectives in Ahupua'a  SUST 220 Agricultural and Resource Economics DS  SUST 221 Organic Food Crop Production (2) DY  SUST 222 Hawaiians DS  SUST 250 Introduction to Sustainability from Social Science Perspectives DS  SUST 251 Scientific Principles of Sustainability DB  SUST 260 Introduction to Environmental Humanities</p>
<p><b>300-Level</b>  SUST 304 Global and Local Perspectives on Severe Weather DP  SUST 310 Conservation Ethics (1)  SUST 311 Natural Resources Management DB  SUST 312 Natural Resource and Environmental Policy DS  SUST 313 Plant Conservation Biology DB  SUST 313L Plant Conservation Biology Lab (1) DY  SUST 314 Global Environmental Issues  SUST 315 Water and Society DS  SUST 316 Environmental Ethics  SUST 317 Mālama 'Āina Resource Management Visual Technologies  SUST 318 Race, Indigeneity, and Environmental Justice DS  SUST 320 Environment and Agriculture DS  SUST 321 Hawai'i and the Pacific DH  SUST 322 Globalization and Environment DS  SUST 323 Applied Principles of Environmental &amp; Energy Policy DS  SUST 324 Global Environmental Politics DS  SUST 325 Communicating Sustainability  SUST 326 Geography, Environment, and Society DS  SUST 330 Culture and Environment DS  SUST 332 Economics of Global Climate Change DS  SUST 333 Climate Change and Cultural Response: Past, Present, and Future DS  SUST 335 Society and Environment DS  SUST 336 Energy Economics DS  SUST 338 Inter-Woven Structures DA  SUST 340 Human Values and the Environment  SUST 341 Land Tenure and Use in Hawai'i DH  SUST 350 Sustainable Development DS  SUST 351 Economic Change and Hawai'i's People DS  SUST 356 Aloha Kanaloa – Marine Resources and Abundance  SUST 358 Basic Environmental Benefit Cost Analysis DS  SUST 367 Sustainability, Technoscience, and Social Justice DS</p>	<p><b>400-Level</b>  SUST 484 Contemporary Art and Ecology  SUST 401 History of the Indian Ocean World DH  SUST 410 Sustainable Soil and Plant Health Management  SUST 411 Methods in Wildlife Management &amp; Conservation  SUST 412 The Ocean Economy DS  SUST 413 Past Global Change and the Human Era DP  SUST 414 The Ethics of Climate Change and Geoengineering  SUST 415 Nature-Based Tourism Management DS  SUST 420 Community and Natural Resource Management DS  SUST 421 Sustainable Tourism Policies and Practices  SUST 422 Biocontrol of Invasive Species DB  SUST 423 Agriculture, Food and Society DS  SUST 425 Environmental Geochemistry DP  SUST 426 Environment, Resources and Society DS  SUST 427 Beaches, Reefs, and Climate Change DP  SUST 433 Interdisciplinary Science Curriculum  SUST 436 Use, Re-use, and Radical Re-use DA  SUST 439 Installation/Performance--Material in Context DA  SUST 440 Vulnerability &amp; Adaptation on Coastal Infrastructure  SUST 441 Principles of Sustainability Analysis  SUST 442 Environmental Management Systems  SUST 444 Infrastructure: Project Impacts, Policy and Sustainability  SUST 445 Ethnoecology and Conservation DB  SUST 446 Hawaiian Ethnobotany DS  SUST 449 Climate Modeling, Data Analysis and Applications (Major Restriction)  SUST 450 Natural History of Hawaiian Islands DB  SUST 451 Wildlife Ecology and Management  SUST 455 Topics in Comparative Ethnic Conflict: Hawaiian Sovereignty in Pacific Context DS  SUST 456 Natural Resource Issues and Ethics (4)  SUST 457 'Āina Mauliola: Hawaiian Ecosystems  SUST 458 Project Evaluation and Resource</p>

SUST 371 Genetics: Theory to Application SUST 380 Environmental Law and Politics DS SUST 387 Politics of the Ocean DS	Management DS SUST 459 Strategies in Hawaiian Resource Use SUST 460 Hui Konohiki Practicum SUST 461 Global Ethnic Conflict SUST 480 Applied Forest Ecology SUST 481 American Environmental History DH SUST 482 Anthropology and the Environment: Culture, Power and Politics DS <u>SUST 484 Contemporary Art and Ecology DH</u> SUST 494 Environmental Problem Solving SUST 496 Sustainability & Resilience Seminar (1)
---	--

students, faculty, and staff can obtain access to the Internet and UH technology resources through their UH username; short courses and professional development activities are available for faculty and staff. The ITS Help Desk provides a single point of contact for access to ITS services and technical support.

### **Office of International and Exchange Programs**

Queen Lili'uokalani Center for Student Services 206  
2600 Campus Road  
Honolulu, HI 96822  
Tel: (808) 956-2223  
Email: [shillber@hawaii.edu](mailto:shillber@hawaii.edu)  
Web: [manoa.hawaii.edu/international/](http://manoa.hawaii.edu/international/)

The Office of International and Exchange Programs (OIEP), in consultation with faculty, administrators, and the campus community, provides the international vision for the university. It does so by guiding relevant policies and expanding the university's international presence and reputation through networking with communities at home and around the world. This office advocates, supports, and promotes international opportunities and activities both on campus and overseas. Led by the Assistant Vice Chancellor, the chief international education officer, and the principal advisor to the Provost and Vice Chancellor on all matters pertaining to international education, OIEP is comprised of the following functional units: Faculty and Scholar Immigration Services, International Student Services, Mānoa International Exchange, and the Study Abroad Center. The OIEP serves as a catalyst for the university's international engagement, facilitating and coordinating its global activities and initiatives.

### **Study Abroad Center**

Moore Hall 115  
1890 East-West Road  
Honolulu, HI 96822  
Tel: (808) 956-5143  
Fax: (808) 956-9319  
Email: [uhmsac@hawaii.edu](mailto:uhmsac@hawaii.edu)  
Web: [www.studyabroad.org](http://www.studyabroad.org)

The Study Abroad Center (SAC) collaborates with various UH Mānoa academic departments to provide opportunities for students to study, and faculty members to teach and conduct research in another country. For more details, go to the Programs section in "Undergraduate Education."

### **Mānoa International Exchange**

Queen Lili'uokalani Center for Student Services 206  
2600 Campus Road  
Honolulu, HI 96822  
Tel: (808) 956-4728  
Fax: (808) 956-5076  
Email: [uhmix@hawaii.edu](mailto:uhmix@hawaii.edu)  
Web: [manoa.hawaii.edu/mix/](http://manoa.hawaii.edu/mix/)

UH Mānoa International Exchange (MIX) provides an opportunity for UH Mānoa students to study overseas and students from our overseas partner universities to study at Mānoa. An international exchange may be for one or two semesters; some summer exchange programs are also available. Participating students are registered as full-time UH Mānoa students while on exchange, and pay only their normal tuition. Upon completing the exchange, students receive transfer credit based on an evaluation of the transcript provided by the host university.



### **International Student Services**

Queen Lili'uokalani Center for Student Services 206  
2600 Campus Road  
Honolulu, HI 96822  
Tel: (808) 956-8613  
Fax: (808) 956-5076  
Email: [issmanoa@hawaii.edu](mailto:issmanoa@hawaii.edu)  
Web: [www.hawaii.edu/issmanoa/](http://www.hawaii.edu/issmanoa/)

International Student Services (ISS) provides assistance to approximately 1,200 international students who come from more than 85 countries to study at UH Mānoa. ISS advises students on regulations affecting their non-immigrant visa status in the U.S., provides opportunities to help students adjust to local and U.S. cultures by working closely with the International Student Association, and serves as the office responsible for meeting international student federal compliance mandates.

### **Faculty and Scholar Immigration Services**

Physical Science Building 102-106  
2565 McCarthy Mall  
Honolulu, HI 96822  
Tel: (808) 956-2224  
Fax: (808) 956-5030  
Email: [fsis@hawaii.edu](mailto:fsis@hawaii.edu)  
Web: [www.hawaii.edu/fsis/](http://www.hawaii.edu/fsis/)

Faculty and Scholar Immigration Services (FSIS) provides immigration advising and support services for international faculty, APTs, exchange visitors, and sponsoring departments across the UH System. FSIS reviews and updates UH immigration policies and procedures and serves as a liaison between UH and federal agencies on employment-based immigration matters.

### **Institute for Sustainability and Resilience (ISR)**

2424 Maile Way  
Saunders Hall 113  
Honolulu, HI 96822  
Tel: (808) 956-2890  
Email: [isr@hawaii.edu](mailto:isr@hawaii.edu)  
Web: [manoa.hawaii.edu/isr/](http://manoa.hawaii.edu/isr/)

The Institute for Sustainability and Resilience (ISR) at UH Mānoa aims to help Hawai'i meet our local and global obligations to environmental sustainability, with an emphasis on promoting well-being from the lens of community resilience. ISR will provide a campus-wide focus for instructional, research and outreach programs relating to sustainability and resilience in Hawai'i, as lessons from our islands can help provide global

solutions. ~~ISR will partner with communities across Hawai'i to address challenges to sustainability and resilience, as well as foster multidisciplinary curricular programs that empower students to meet the critical challenges of bridging local to global problems to solutions.~~

Interdisciplinary Studies, in collaboration with ISR, offers a BA in Sustainability. The program allows students to harness a cross-disciplinary approach to sustainability by taking classes from multiple departments across campus. Sustainability classes build understanding of the interconnectivity of human and natural systems. Students can tailor their program around ~~five~~ **six** possible areas of concentration:

- ~~Environmental Policy and Management;~~ **Sustainable Environmental Policy;**
- Food, Energy, and Water (FEW) Systems;
- ~~Globalization and Sustainable Development;~~ **From Global Issues to Local Action;**
- Sustainable Island Ecosystems; **and**
- Environmental Justice, **and Ethics. Values, and Ethics; and - Climate Change.**

**\*\*** Students who understand the basis of environmental systems and sustainability solutions will be well equipped for a wide range of careers, for example, in the fields of education, natural resources management, corporate responsibility, government and policy, and sustainability planning.

### **Institutional Research Office**

2500 Campus Road  
Hawai'i Hall 107  
Honolulu, HI 96822  
Tel: (808) 956-5366  
Fax: (808) 956-7115  
Email: [miro@hawaii.edu](mailto:miro@hawaii.edu)  
Web: [manoa.hawaii.edu/miro/](http://manoa.hawaii.edu/miro/)

The mission of the Mānoa Institutional Research Office is to enhance institutional effectiveness by: collecting, analyzing, and reporting information for institutional strategic planning, assessment, program review, policy formulation, and decision making for both academic and administrative functions; coordinating responses to inquiries for university-related information; and serving as a comprehensive source for information about the institution.

### **Harold L. Lyon Arboretum**

3860 Mānoa Road  
Honolulu, HI 96822  
Tel: (808) 988-0456  
Fax: (808) 988-0462  
Web: [manoa.hawaii.edu/lyonarboratum/](http://manoa.hawaii.edu/lyonarboratum/)

Harold L. Lyon Arboretum is a research unit that serves in a supporting capacity for all educational, scientific, and service activities; it is also an integral player in the research and conservation efforts of the state's native flora. Our mission is *to inspire and cultivate the conservation of tropical plant biodiversity, and connect it to Hawai'i's culture through education and research*. It is home to a living collection of more than 19,000 individual plants representing some 8,000 taxa, featuring a vast assortment of tropical and ornamental plants, including heliconias, gingers, aroids, bromeliads, native Hawaiian plants, and one of the largest palm collections in the world. The Hawaiian Rare Plant Program (HRPP) conserves hundreds of threatened and endangered plant species in the state, and utilizes micropropagation and seed banking to house native taxa and flora of Hawai'i; many are critically endangered (<50 surviving individuals). The Seed Conservation Laboratory has more than 26 million seeds representing ~600 taxa, and the

Micropropagation Laboratory, which houses species that do not store well as seed, hosts ~30,000 plant individuals representing around 160 native taxa.

### **University of Hawai'i Cancer Center**

701 Ilalo Street  
Honolulu, HI 96813  
Tel: (808) 586-3010  
Fax: (808) 586-3052  
Web: [www.uhcancercenter.org](http://www.uhcancercenter.org)

The University of Hawai'i Cancer Center is a free-standing organized research unit of UH Mānoa focusing on cancer research. Its faculty members are comprised of scientists and clinicians from various disciplines reflecting the broad research interests of the center. The UH Cancer Center is a National Cancer Institute (NCI)-designated cancer center, a prestigious designation granted only to the most eminent and successful cancer centers in the nation after a rigorous peer review. The designation comes with a Cancer Center Support Grant that provides funding for various shared resources such as Analytical Biochemistry; Biostatistics; Genomics and Bioinformatics; Metabolomics; and Nutrition Support. The UH Cancer Center also operates the Hawai'i Tumor Registry as well as core research facilities, including Microscopy, Imaging, and Flow Cytometry; Pathology and the Clinical Trials Office, which provides access to clinical trials for cancer patients in Hawai'i.

The UH Cancer Center members are engaged in all aspects of cancer research, and generates over \$30 million in extramural research support annually. In addition to conducting fundamental research, the UH Cancer Center also provides research opportunities for minority and underserved high school students and college undergraduates through internships, as well as MS, MD, MPH, and PhD students enrolled in academic disciplines closely aligned with the faculty's research interests.

The UH Cancer Center's research activities are organized into two programs: Cancer Biology (CB) and Population Sciences in the Pacific (PSP), each with specific areas of interest. PSP areas of interest are: (1) cancer epidemiology, which examines the underlying ethnic and racial differences in cancer incidence and mortality and the roles of lifestyle factors, genetics, hormones, and infectious agents in cancer causation; and (2) cancer prevention, which seeks to advance the understanding of behavioral, psychosocial, biological, social, and environmental factors associated with cancer; test interventions to reduce cancer risk, increase early detection, and improve survivorship; and disseminate research that benefits multiethnic, multicultural, and underserved populations. The CB program studies cancer mechanisms that drive cancer development, progression, and invasion and works to translate the discoveries into more effective prevention, detection, and therapeutic interventions. The CB areas of interest are: (1) natural products and cell signaling, which investigates anticancer targets and pathways of clinical and therapeutic significance; focuses on new drug discoveries and development, with the emphasis on identifying safe and effective natural product-based anticancer drugs, and taking advantage of the vast natural product resources of Hawai'i and the Pacific region; and (2) translational and clinical research that aims to translate research discoveries into clinical applications, while providing Hawai'i's patients access to the most promising research opportunities and contributes Hawai'i's unique multiethnic population to national trials.

### **ADD TEXT IN-LINE:**

**\*\* ISR also offers a Certificate in Sustainability. The 15-credit certificate is intended for degree-seeking undergraduate students looking for cross-disciplinary education in sustainability that complements their major degree.**