



**Chaminade**  
**University**  
OF HONOLULU

### **Course Syllabus**

Chaminade University Honolulu

3140 Waiialae Avenue - Honolulu, HI 96816

**Course Number:** ENV490

**Course Title:** Sustainability Innovation II

**Department Name:** Environmental Studies

**College/School/Division Name:** Natural Sciences and Mathematics

**Term:** Spring 2025

**Course Credits:** 3

**Class Meeting Days:** Tuesday and Thursday

**Class Meeting Hours:** 10:00 am - 11:20 am

**Class Location:** DART

**Instructor Name:** Mariane Uehara

**Email:** [mariane.uehara@chaminade.edu](mailto:mariane.uehara@chaminade.edu)

**Phone:** 808.397.8621

**Office Location:** DART 2

**Office Hours:** By Appointment

**Instructor Website:** <https://www.inanainnovators.org/>

### **University Course Catalog Description**

ENV 490 Current Environmental Studies Seminar (1 to 3)

Selected topics of current interest in environmental studies will be addressed.

Prerequisites: EN 102, COM 101

### **Course Overview**

ENV490 Sustainability Innovation II is a hands-on course that equips undergraduate students with the tools and mindset to address sustainability challenges through innovative thinking. The course combines design thinking, entrepreneurial strategies, and real-world applications to develop sustainable solutions aligned with the United Nations Sustainable Development Goals (SDGs).

Students will explore problem identification, ideation, and user insights during the first phase, using tools like the Social Lean Canvas. In the second phase, they will create and refine prototypes or minimum viable products (MVPs), applying rapid prototyping techniques and user testing. Students will also engage in field trips, guest lectures, and mentorship opportunities to strengthen their understanding of real-world sustainability innovations.

The course concludes with a Final Showcase where students present their innovations to peers, mentors, and external evaluators. By the end of the course, students will have gained practical experience in developing and testing sustainable solutions, and will be prepared to lead in the field of sustainability innovation.

## Marianist Values

This course integrates the Marianist values creating a holistic and impactful educational experience that addresses personal growth and societal challenges.

1. **Education for Formation in Faith:** Incorporate discussions on the ethical and moral dimensions of sustainability, entrepreneurship, and innovation.
2. **Provide an Integral, Quality Education:** Emphasize the importance of interdisciplinary learning in addressing sustainability challenges. Showcase how various disciplines, such as environmental science, economics, and social justice, intersect in the context of entrepreneurship and innovation.
3. **Educate in Family Spirit:** Foster a collaborative and supportive learning environment where students work together like a family. Promote teamwork, empathy, and mutual respect among participants. Highlight how these qualities can lead to innovative solutions prioritizing collective well-being and community development.
4. **Educate for Service, Justice, and Peace:** Address social inequalities and environmental injustices through the lens of entrepreneurship and innovation. Discuss how sustainable business models contribute to a more just and equitable society.
5. **Educate for Adaptation and Change:** Highlight the dynamic nature of entrepreneurship and innovation, especially in the context of sustainability. Explore how businesses need to adapt to changing environmental and market conditions.

## Native Hawaiian Values

Education is an integral value in both Marianist and Native Hawaiian culture. Both recognize the transformative effect of a well-rounded, value-centered education on society, particularly in seeking justice for the marginalized, the forgotten, and the oppressed, always with an eye toward God (Ke Akua). This is reflected in the 'Ōlelo No'eau (Hawaiian proverbs) and Marianist core beliefs:

1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Ōlelo No'eau 364) May I live by God
2. Provide an Integral, Quality Education (Na'auao) Lawe i ka ma'alea a kū'ono'ono ('Ōlelo No'eau 1957) Acquire skill and make it deep
3. Educate in Family Spirit ('Ohana) 'Ike aku, 'ike mai, kōkua aku kōkua mai; pela iho la ka nohana 'ohana ('Ōlelo No'eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship
4. Educate for Service, Justice and Peace (Aloha) Ka lama kū o ka no'eau ('Ōlelo No'eau 1430) Education is the standing torch of wisdom
5. Educate for Adaptation and Change (Aina) 'A'ohe pau ka 'ike i ka hālau ho'okahi ('Ōlelo No'eau 203) All knowledge is not taught in the same school

## General Education Learning Outcomes

Upon completion of the general education program, a student will be able to:

1. Critically assess global sustainability challenges, identify underlying issues, and create innovative, evidence-based solutions aligned with the Sustainable Development Goals (SDGs).
2. Communicate their ideas, solutions, and prototypes through written, oral, and visual presentations, engaging with stakeholders, peers, and mentors in a professional manner.
3. Evaluate the global impacts of sustainability issues and demonstrate responsibility by designing solutions that contribute to positive social, environmental, and economic outcomes.
4. Collaborate effectively in teams, demonstrating leadership in problem-solving, ideation, and development of sustainable solutions while fostering a creative and inclusive environment.
5. Analyze ethical considerations in sustainability and innovation and apply ethical principles to decision-making processes, considering the broader impact of their solutions on society and the

environment.

### Course Learning Outcomes

By the end of our course, students will be able to:

1. Apply design thinking to identify sustainability challenges, understand user needs, and develop innovative solutions aligned with the United Nations Sustainable Development Goals (SDGs).
2. Design, develop, and refine a prototype or minimum viable product (MVP) that addresses a sustainability challenge, incorporating user feedback for improvement.
3. Craft a compelling value proposition and develop a sustainable business model that integrates financial, social, and environmental considerations.
4. Present and demonstrate innovative solutions to stakeholders, effectively communicating their value, impact, and alignment with sustainability goals.

### Alignment of Course Learning Outcomes

	CLO 1	CLO 2	CLO 3	CLO4
Marianist Values	1	3	5	2, 4
Gen Ed Learning Outcomes (if applicable)	1	4	3	2

### Course Prerequisites

None

### Required Learning Materials

Required material and other supplemental materials will be posted on the Canvas course website for each class. Each material was mindfully curated to empower you with the tools and skills for sustainable innovation and entrepreneurship, so we kindly ask you to review, read, and complete all assignments before each class.

### Course Website:

<https://chaminade.instructure.com/courses/29312>

### Technical Assistance for Canvas Users:

- Search for help on specific topics or get tips in [Canvas Students](#)
- [Live chat with Canvas Support](#) for students
- Canvas Support Hotline for students: +1-833-209-6111
- Watch this [video to get you started](#)
- [Online tutorials](#): click on "Students" role to access tutorials
- Contact the Chaminade IT Helpdesk for technical issues: [helpdesk@chaminade.edu](mailto:helpdesk@chaminade.edu) or call (808) 735-4855

### Tutoring and Writing Services

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing

help is available on campus at Kōkua 'Ike: Center for Student Learning in a variety of subjects (including, but are not limited to: biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check [Kōkua 'Ike's website](#) for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via TutorMe. Tutor Me can be accessed 24/7 from your Canvas account. Simply click Account – Notifications – TutorMe. For more information, please contact Kōkua 'Ike at [tutoring@chaminade.edu](mailto:tutoring@chaminade.edu) or 808-739-8305.

### **Assessment**

Individual assignments: 50%

Group Assignments & Final team project: 50%

#### Individual Assignments: instructions & directions

This individual assessment provides students with the opportunity to showcase their intellectual acumen to reflect on key concepts while critically evaluating sustainability and entrepreneurship issues. Prompts and specific guidance on this assessment will be uploaded onto Canvas two weeks before its due date (deadline).

*Submission:* It is the sole responsibility of the student to submit this assignment online before the deadline.

*Assessment Format:* More details will be posted on Canvas.

### **Grading Scale**

Letter grades are given in all courses except those conducted on a credit/no credit basis. Grades are calculated from the student's daily work, class participation, quizzes, individual reports and the final group project.

They are interpreted as follows:

A Outstanding scholarship and an unusual degree of intellectual initiative

B Superior work done in a consistent and intellectual manner

C Average grade indicating a competent grasp of subject matter

D Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work

F Failed to grasp the minimum subject matter; no credit given

### **Course Policies**

#### **Late Work Policy**

Requests for extensions due to extenuating circumstances (medical problems, for example) will be considered but in general work received after the deadline will not be graded. Computer problems are not an excuse for late work.

#### **Grades of "Incomplete"**

Students and instructors may negotiate an incomplete grade when there are specific justifying circumstances. An Incomplete Contract (available from the Divisional Secretary and the Portal) must be completed. When submitting a grade the "I" will be accompanied by the alternative grade that will automatically be assigned after 30 days. These include IB, IC, ID, and IF. If only an "I" is submitted the default grade is F. The completion of the work, evaluation, and reporting of the final grade is due within 90 days after the end of the semester or term. This limit may not be extended.

#### **Writing Policy**

Paper requirements and formatting will be discussed during the course when the assignment is given.

### **Instructor and Student Communication**

Questions for this course can be emailed to me at [mariane.uehara@chaminade.edu](mailto:mariane.uehara@chaminade.edu). Online, in-person and phone conferences can be arranged. Response time will take place up to 24 hours but response time may be longer on the weekends.

### **Cell phones, tablets, and laptops**

Out of consideration for your instructor, guest speakers and classmates, please set your cell phone to silent mode during class. Students are encouraged to use notebooks instead of laptops or tablets to encourage creativity and minimize distractions.

### **Academic Honesty**

Academic honesty is an essential aspect of all learning, scholarship, and research. It is one of the values regarded most highly by academic communities throughout the world. Violations of the principle of academic honesty are extremely serious and will not be tolerated.

Students are responsible for promoting academic honesty at Chaminade by not participating in any act of dishonesty and by reporting any incidence of academic dishonesty to an instructor or to a University official. Academic dishonesty may include theft of records or examinations, alteration of grades, and plagiarism, in addition to more obvious dishonesty.

Questions of academic dishonesty in a particular class are first reviewed by the instructor, who must make a report with recommendations to the Dean of the Academic Division. Punishment for academic dishonesty will be determined by the instructor and the Dean of Academic Division and may include an "F" grade for the work in question, an "F" grade for the course, suspension, or dismissal from the University.

For the most up to date information, please refer to the [Academic Honesty Policy](#) on the Chaminade University Catalog website.

### **Nondiscrimination Policy & Notice of Nondiscrimination**

Chaminade University of Honolulu does not discriminate on the basis of sex and prohibits sex discrimination in any education program or activity that it operates, as required by Title IX and its regulations, including in admission and employment. Inquiries about Title IX may be referred to the University's Title IX Coordinator, the U.S. Department of Education's Office for Civil Rights, or both and contact information may be found at the [Chaminade University Title IX Office Contact Information and Confidential Resources website](#). On-campus Confidential Resources may also be found here at [CAMPUS CONFIDENTIAL RESOURCES](#).

The University's Nondiscrimination Policy and Grievance Procedures can be located on the University webpage at: <https://chaminade.edu/compliance/title-ix-nondiscrimination-policies-procedures/>.

To report information about conduct that may constitute sex discrimination or make a complaint of sex discrimination under Title IX, please refer to the [Campus Incident Report form](#). Chaminade University of Honolulu prohibits sex discrimination in any education program or activity that it operates. The NOTICE of NONDISCRIMINATION can be found here: [Notice of Nondiscrimination](#).

### **CUH Alert Emergency Notification**

To get the latest emergency communication from Chaminade University, students' cell numbers will be connected to Chaminade's emergency notification text system. When you log in to the Chaminade portal, you will be asked to provide some emergency contact information. If you provide a cellphone number, you will receive a text from our emergency notification system asking you to confirm your number. You must respond to that message to complete your registration and get emergency notifications on your phone.

### **Assessment for Student Work**

With the goal of continuing to improve the quality of educational services offered to students, Chaminade University conducts assessments of student achievement of course, program, and institutional learning outcomes. Student work is used anonymously as the basis of these assessments, and the work you do in this course may be used in these assessment efforts.

### **Student with Disabilities Statement**

Chaminade University of Honolulu offers accommodations for all actively enrolled students with disabilities in compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act (2008).

Students are responsible for contacting Kokua Ike: Center for Student Learning to schedule an appointment. Verification of their disability will be requested through appropriate documentation and once received it will take up to approximately 2–3 weeks to review them. Appropriate paperwork will be completed by the student before notification will be sent out to their instructors. Accommodation paperwork will not be automatically sent out to instructors each semester, as the student is responsible to notify Kokua Ike via email at [ada@chaminade.edu](mailto:ada@chaminade.edu) each semester if changes or notifications are needed.

### **Title IX and Nondiscrimination Statement**

Chaminade University of Honolulu is committed to providing a learning, working and living environment that promotes the dignity of all people, inclusivity and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students Office, the Counseling Center, or the Office for Compliance and Personnel Services.

### **Attendance Policy**

Students are expected to attend all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension, or by leaving a message with the instructor's division office. It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade.

Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being withdrawn from the course by the instructor, although the instructor is not required to withdraw students in that scenario. Repeated absences put students at risk of failing grades.

Students with disabilities who have obtained accommodations from the Chaminade University of Honolulu Tutor Coordinator may be considered for an exception when the accommodation does not materially alter the attainment of the learning outcomes.

Federal regulations require continued attendance for continuing payment of financial aid. When illness or personal reasons necessitate continued absence, the student should communicate first with the instructor to review the options. Anyone who stops attending a course without official withdrawal may receive a failing grade or be withdrawn by the instructor at the instructor's discretion.

### **Student Conduct Policy**

Campus life is a unique situation requiring the full cooperation of each individual. For many, Chaminade is not only a school, but a home and a place of work as well. That makes it a community environment in which the actions of one student may directly affect other students. Therefore, each person must exercise a high degree of responsibility. Any community must have standards of conduct and rules by which it operates. At Chaminade, these standards are outlined so as to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values.

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details. A copy of the Student Handbook is available on the Chaminade website under Student Life.

For further information, [please refer to the Chaminade Catalogue.](#)

### **Credit Hour Policy**

The unit of semester credit is defined as university-level credit that is awarded for the completion of coursework. One credit hour reflects the amount of work represented in the intended learning outcomes and verified by evidence of student achievement for those learning outcomes. Each credit hour earned at Chaminade University should result in 45 hours of engagement. This equates to one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester, 10 week term, or equivalent amount of work over a different amount of time. Direct instructor engagement and out-of-class work result in total student engagement time of 45 hours for one credit.

The minimum 45 hours of engagement per credit hour can be satisfied in fully online, internship, or other specialized courses through several means, including (a) regular online instruction or interaction with the faculty member and fellow students and (b) academic engagement through extensive reading, research, online discussion, online quizzes or exams; instruction, collaborative group work, internships, laboratory work, practica, studio work, and preparation of papers, presentations, or other forms of assessment. This policy is in accordance with federal regulations and regional accrediting agencies.

This course, totaling three credit hours as per the official CUH Credit Hour Policy, demands a commitment of 135 clock hours from students. Throughout the duration of this program, participants are anticipated to allocate approximately 40 hours to in-class activities. Additionally, 30 hours should be dedicated to tasks such as crafting a business plan, designing surveys, creating prototypes, and critiquing business models. Another 40 hours are earmarked for the hands-on experience of constructing a digital store platform and establishing a physical storefront. The final 25 hours will be devoted to actively engaging in selling, evaluating, and iteratively refining the developed business model.

### **Kōkua 'Ike: Tutoring & Learning Services**

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing help is available on campus at Kōkua 'Ike: Center for Student Learning in a variety of subjects (including, but are not limited to biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check [Kōkua 'Ike's](#) website for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via TutorMe. Tutor Me can be accessed 24/7 from your Canvas account. Simply click on Account >

TutorMe. For more information, please contact Kōkua 'Ike at [tutoring@chaminade.edu](mailto:tutoring@chaminade.edu) or 808-739-8305.

## Schedule

### Tentative Course Outline

Here's a table based on the content you've provided, which you can add to the syllabus:

Week	Date	Lecture Topic	Learning Outcomes	Faculty or Guest Speaker
1	Jan 7	Welcome & Course Overview	1, 2, 3, 4	
1	Jan 9	Fall in Love with the Problem, Not the Solution	1	
2	Jan 14	Deep Dive: Understanding the Problem	1	Dr. Catherine Lee Brock
2	Jan 16	Problem Framing for Solutions	1	
3	Jan 21	Understanding Your Persona	1	
3	Jan 23	Target Consumer Insights	1	
4	Jan 28	Knowing Your Client	1	
4	Jan 30	Sales Strategies	3	Tim Marr
5	Feb 4	Design Thinking: Overview	1	
6	Feb 6	Design Thinking in Action	1	
6	Feb 11	Creative Ideation & Solution Development	1	
7	Feb 13	Refining Your Ideas	2	
7	Feb 18	Crafting a Unique Value Proposition	3	
8	Feb 20	Rapid Prototyping Techniques	2	Dr. Marvin Uehara
8	Feb 25	Prototype Development	2	
9	Feb 27	Mastering Interview Techniques	2	
9	Mar 4	Feedback Collection & Analysis	2	
10	Mar 6	Iterating with Feedback	2	
10	Mar 11	Financial Planning	3	
11	Mar 13	Revenue Models for Sustainability	3	



11	Mar 25	Key Metrics for Success	3	Connor Flynn
12	Mar 27	Stakeholders & Partnerships	3	
12	Apr 1	Channels & Marketing Strategies	3	Wera Panow-Loui
13	Apr 3	Building Your Brand	3	John Elliot
13	Apr 8	Storytelling for Impact	4	
14	Apr 10	Field Trip: Real-World Innovation	1, 4	Aina Farm
14	Apr 15	Field Trip: Community Engagement	1, 4	Waianae Village
15	Apr 17	Practice Final Presentations	4	
16	Apr 22	Public Speaking for Innovators	4	Tony Silva
16	Apr 24	Practice Final Presentations	4	
17	Apr 29	Final Presentations & Showcase	4	