

Course Syllabus

[Chaminade University Honolulu](https://www.chaminade.edu/)

3140 Waiialae Avenue - Honolulu, HI 96816



Chaminade
University
OF HONOLULU

Course Number: AR 255-01-1

Course Title: Beginning of 3D Design

Department Name: Humanities, Arts, and Design

College/School/Division Name: Arts

Term: Spring 2023

Course Credits: 3

Class Meeting Hours: MW 1:30 pm-2:50 pm

Class Location: Ceramic studio 101 and 104

Instructor Name: Jun Funahashi

Email: junko.funahashi@chaminade.edu

Phone: 646.645.3374

Office Location: Eiben-101

Office Hours: M W 3-5pm

Instructor Website: www.jfgallery.org/jun

Other Professional Contact Information (IG): @junfunahash

This is a contemporary 3D design course on perspectives, tools, and methods. This course will introduce the basics of three dimensional design and processes. It will cover topics in three-dimensional design in which students will explore the principles of visual perception and the meaning of form, space, function, mass and structure as they relate to three-dimensional design.

Course Overview

In this course, you will design and develop contemporary 3D design , using AutoCad, 3D printing, and the ceramic lab experience. Basic ceramic mold construction methods as well as internal supports, surface treatment and technique will be covered. Classes will have lectures, demonstrations, discussions of design/construction processes, and glazing/finishing techniques. You will present several ideas for your design and objects to the class, participate in peer critiques, and continually improve your learning experience over the semester.

- **Production Technique:** combining and processing cognitive skills on a continuum
- **Problem Solving:** inquiry, experimentation, application and transfer of knowledge
- **Collaborative Learning:** Teamwork and leadership opportunities within the parameters

of an ethical framework

- **Aesthetic Development:** Explore creativity through the interconnections of culture, design, and historical genre
- **Aesthetic Appreciation/Lifelong learning:** magnify personal perception of beauty, meaning, value, intent, & emotional content
- **Aesthetic Experience:** Synthesize the identified core elements into the resultant product.
Standards: National Standards:
- **Artistic Process: Creating:** Conceiving and developing new artistic ideas and work.
- **Artistic Process: Presenting:** Interpreting and sharing artistic work.
- **Artistic Process: Responding:** Understanding and evaluating how the arts convey meaning.

Marianist Values

This class represents one component of your education at Chaminade University of Honolulu. An education in the Marianist Tradition is marked by five principles and you should take every opportunity possible to reflect upon the role of these characteristics in your education and development:

1. Education for formation in faith
2. Provide an integral, quality education
3. Educate in family spirit
4. Educate for service, justice and peace
5. Educate for adaptation and change

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

Learning Outcomes

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

1. Develop vocabulary of art and technology terms and techniques.
2. Develop an understanding of the principles of design in relationship to form, space and mass.
3. Effectively experiment with a variety of materials and techniques in art.
4. Learn collaborative work with other students.
5. Students recognize and differentiates the styles and mediums.

Course Prerequisites

AR255 is for beginners of the 3D design level. There's any prior experience needed.

Please email Jun at junko.funahashi@chaminade.edu for any questions and concerns about prerequisites.

Required Learning Materials

You will need a laptop with Autodesk software. We mainly use TinkerCAD for a 3D printer, CURA, and Adobe Express. All of the software from Autodesk is free for students.

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 or call (808) 735-4855

Technical lab experience

All students in the ceramics program are encouraged to learn the lab operating work that goes with completing their work. This experience improves the understanding and appreciation of one's work. Those who participate in the lab operation work (kiln loading, unloading, glaze mixing, lab cleaning, etc.) may receive extra points at the instructor's discretion.

Class-conduct policy

Respect for others in our lab. Use a headset if you need to listen to music while working on your clay. Friends or visitors are not allowed in the class without the instructor's approval. Only those who registered for the course are good to work in our lab. This rule applies outside the class hours as well. Every object needs the instructor's approval, otherwise may not be fired. Your cell phone must be in silence mode during our class period.

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 (<https://chaminade.edu/advising/kokua-ike/>) 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 or 808-739-8305.

Assessment

Provide a listing of assessments and their weighting. In addition to (or even in lieu of) tests, you may wish to consider creating “authentic” assessments, which are aligned to experiences that students will encounter in their careers. You also may wish to include service learning assignments and connect with the CUH [Service Learning Center](#).

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, tests, term papers, reports and the final examination. They are interpreted as follows:

A

90-100% : an excellent presentation and portfolio with outstanding work.

- Satisfactory and timely completion of all project assignments.
- Satisfactory attendance (no more than 2 unexcused absences)
- Satisfactory class and critique participation

B

80-89% : a good quality of work throughout the semester.

- Satisfactory and timely completion of all project assignments
- Satisfactory attendance (no more than 3 unexcused absences)
- Satisfactory class and critique participation

C

70-79% : Timely submission for all assignments.

- Satisfactory and timely completion of all project assignments.
- No more than 4 unexcused absences.
- Satisfactory class and critique participation

D

60-69%

- Satisfactory and timely completion of all written assignments.
- No more than 5 unexcused absences.

- Satisfactory class and critique participation

F

Less than 60%

- Failure to submit project assignments.
- Non-compliance with project assignment guidelines
- More than 5 unexcused absences.
- Unsatisfactory class and critique participation

Course Policies

Late Work Policy

Please see our course schedule below for the details.

There is a 10% points reduction from the final grading if you submit your artwork late.

Grades of "Incomplete"

Offer specifics about your policy on incomplete grades as they align with the University policies

Writing Policy

Please use MLA or APA style for writing assignments.

Instructor and Student Communication

Questions for this course can be emailed to the instructor Jun Funahashi junko.funahashi@chaminade.edu at. Online, in-person and phone conferences can be arranged. Response time will take place up to 24 hours. Do not message, text, or call us between 10 pm-8 am unless there is an emergency.

Cell phones, tablets, and laptops

Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

Disability Access

If you need individual accommodations to meet course outcomes because of a documented disability, please speak with me to discuss your needs as soon as possible so that we can ensure your full participation in class and fair assessment of your work. Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from Kōkua 'Ike: Center for Student Learning by the end of week three of the class, in order for instructors to plan accordingly. If a student would like to determine if they meet the criteria for accommodations, they should contact the Kōkua 'Ike Coordinator at (808) 739-8305 for further information (ada@chaminade.edu).

Title IX Compliance

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and 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

Taking an undergraduate course is a gift for yourself. Continuing your education costs time and money, both of which are valuable for adults. To maximize your return, I require attendance at all of our classes. If you come to the class late or leave early 3 times, it will be counted as a day of absent.

The following attendance policy is from the Academic Catalog (p. 54-55). Faculty members should also check with their divisions for division-specific guidelines.

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.

Academic Conduct Policy

From the Undergraduate Academic Catalog (p. 39):

Any community must have a set of rules and standards of conduct 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.

For further information, please refer to the Student Handbook:

<https://chaminade.edu/wp-content/uploads/2019/08/NEW-STUDENT-HANDBOOK-19-20-Final-8.20.19.pdf>

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, practice, studio work, and preparation of papers, presentations, or other forms of assessment. This policy is in accordance with federal regulations and regional accrediting agencies.

AR255 Course Schedule

Date	Topic	Prep for class	Due
Jan 9 W1	Introduction to course, understanding materials and equipment. *Syllabus *3D printer and ceramics studio safety Introduction of project 1-255 Notebook Cover, using a laser cutter.	Read a course syllabus Bring a laptop.	

Jan 11 W1	<p>*Download a 3D design software: Tinkercad and Autodesk</p> <p>*Start on the first project to gain understanding of how to create from a 2D idea into a 3D finished creation.</p>	<p>Work on project 1: Design/sketch ideas</p>	<p>Project 1: download the software</p>
Jan 16 W2	<p>Fr. Chaminade/Dr. Martin Luther King Jr. Day for Day Undergraduates (no classes; offices closed)</p>		
Jan 18 W2	<p>Laser Cutter Demo and safety from 2pm</p> <p>Introduction of project 2-255</p> <p>Key Chain, using a 3D printer.</p> <p>Tinker Demo 1</p> <p>Text with a mug cup using TinkerCAD.</p> <p>3D printer Demo and safety</p>	<p>Founders' Day Mass/Heritage Award Ceremony; 11:30 am - 1:20 pm (no class scheduled)</p>	
Jan 23 W3	<p>Introduction of Project 3: Ceramic Coaster</p> <p>3D print of your Key Holder</p>		<p>Project 1: Notebook print design ready</p>
Jan 25 W3	<p>Work on your coaster design</p> <p>3D print of your Key Holder</p> <p>Mini Assignment with TinkerCAD: Make a Pram of Chess.</p>		

Jan 30 W4	<p>Glazing tech on a ceramics coaster project</p> <p>Paint a 3D Key Chain Holder</p>		
Feb 1 W4	<p>Introduction of project X</p> <p>Hawaiian Tapa Installation: developing a field study of subject matter. Learning movement within build up techniques' both by hand and computer based.</p> <p>Cad Demo</p>	<p>Work on project X:</p> <p>Design/sketch ideas using TinkerCAD</p>	
Feb 6 W5	<p>Print your design with 3D printer</p>		
Feb 8 W5	<p>Print your design with 3D printer</p>		
Feb 13 W6	<p>Make a slab with clay.</p> <p>Press the 3D stamp onto the clay/tile.</p>		
Feb 15 W6	<p>Introduction of 3D design artists research and preparation while waiting for the tiles to dry and bisque fired.</p>		

Feb 20 W7	Glaze the tiles.		
Feb 22 W7	Glaze the tiles.		
Feb 27 W8	Laser print on tile if necessary		
Mar 1 W8	Installation on the site.		
Mar 6 W9	Installation on the site.		
Mar 8 W9	Installation on the site.		
Mar 13 W10	Critique Project X		

Mar 15 W10	3D design artists research and presentation		3D design artists presentation slides
Mar 20 W11	Spring Recess (no Day Undergraduate classes on campus)		
Mar 22 W11	Spring Recess (no Day Undergraduate classes on campus)		
Mar 27 W12	Prince Kuhio holiday observed (no Day Undergraduate classes on campus; offices closed)		
Mar 29 W12	Introduction of project 5-255 Hexagon Wall design	Work on project 5: Design/sketch ideas	Project 5: Design/sketch ideas
Apr 3 W13	Hexagon Wall design		
Apr 5 W13	Hexagon Wall design		

Apr 10 W14	Hexagon Wall design		
Apr 12 W14	Hexagon Wall design		
Apr 17 W15	Hexagon Wall installation		
Apr 19 W15	Hexagon Wall installation		
Apr 24 W16	Final Crit	Bring your slides and portfolio for your final.	
Apr 26 W16	Final Crit	Bring your slides and portfolio for your final.	

Projects

[Project 1-255](#): Sketchbook Cover, using a laser cutter.

Week 1-3

[Project 2-255](#): Key Chain, using a 3D printer.

Week 1-3

Project 3-255: Ceramics Coaster design, using clay and a laser cutter

Week 4-5

[Project X](#): Tapa wall installation using clay and a 3D printer

Week 6-10

[3D designer and artist research](#): Research and presentation

[Project -5-255](#): Hexagon Wall design, using a laser cutter

Week 11-15

Final Critique: Week 16

Grading Outline

Each project has a total of 400 pts each:

1. Sketches, research, introspection
2. Greenware: unfired clay ready to be placed in a kiln.
3. Glaze ware: clay that has been bisque, glazed, and fired and is conceptually completed.
4. Critique and collaboration (participants offer critical feedback to peers and be active in class discussions and team projects).

Final project (600 pts) and extra points:

1. Portfolio: Web, social media catalog of your work, or Google Slide.
2. Labwork: Maintenance cleaning, making glaze & clay firing, etc. (If you participate in our lab work, you will receive extra points).
3. Attendance
4. Class participation

*Each project will have a [rubric](#) to quantify grades. Click on the highlighted area above to see the details of the project and [a grading system](#).

