



School of Art and Design

Spring 2023 / DES 230 3D Design, Materials and Tools (33446D)

Days + Times: Monday/Wednesday 6:00pm to 8:40pm

Instructor: Jason Fowler Ellenburg

Office Hours: by appointment / Office: WAT 103B

Contact Info: jellenbu@usc.edu

Prerequisite:: DES 102

COURSE DESCRIPTION

Introduction to the study of 3-D Design. Includes a wide investigation of materials, tools, and techniques specific to dimensional design as they apply to package, product, and environmental design. The ability to understand and experiment with materials, media and the tools applied to 3D lies at the core of this studio-based class. Building on design concepts introduced in DES102 - Design Fundamentals, students will be introduced to the key principles of materials integral role in design.

Coursework explores a range of materials through in-class exercises, projects, and instruction. Students will investigate means of production and construction using both the hands-on traditional and digital tools available to them. Experimentation is a critical part of design and innovative thinking, so the challenge to explore will be a focus during the term. The study of the design process in visual problem solving will frame that investigation.

Students are expected to actively participate in the design process through sketching; rapid visualization (prototyping); and creating dummies and comprehensives.

OBJECTIVES

Students will have the ability to understand basic three-dimensional concepts as they apply to design.

Students will examine materials, media, and tools as they apply to 3D.

Students will have an introduction to 3D technology to visualize built forms and prototyping.

Students will have an understanding of the principles of material selection and their appropriate application.

The course will draw upon the design process and it's application to visual problem solving.

Students will be expected to evaluate their work and others in a critical manner.

CLASS ROOM NORMS

Classroom etiquette requires that all members speak in a respectful and professional manner.

Attendance and preparedness are crucial in order to be successful in this class. Please email the instructor if you are not able to attend class.

Late work will be penalized by a 10% deduction in the assignment grade every 24 hours late unless due to an emergency excused by the instructor. Email the instructor as soon as possible to discuss alternate arrangements due to an emergency.

GRADE PERCENTAGE BREAKDOWN

75% Studio projects and homework assignments. Project grades will be assigned according to a point system based on the following:

- Competency in key concepts
- Range of experimentation
- Process and methodology
- Presentation/craftsmanship
- Participation in critiques

Process Packets (sketches, notes and research) are required for each project submitted

15% Written assignments, sketchbook and in-class exercises

10% Class participation, reading assignments, attendance, effort, improvement

GRADING SYSTEM:

A	95-100
A-	90-94
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
F	59 & below

SUPPLIES

Bristol paper, X-acto knife, ruler/t-square/triangle, double sided tape, newsprint or butcher paper, variety of writing and drawing implements, self-healing mat, sketchbook

FINAL PROJECT AND DESIGN STATEMENT

At the close of the semester, all students are required to submit a complete documentation of all their completed work, a design statement, and their research and process documentation.

1. Final Work will be handed in as a PDF portfolio and turned into Blackboard.
2. Design Statement should be submitted electronically. Your name must be in the document itself and if electronically then in the saved file name. Please include a list of the final work submitted along with the design statement. The list should correlate to the projects themselves in the following order: The title, date, medium, and dimensions or running time of each work.
3. If you are submitting electronic images, please name as follows
01_Doe_Jane.file extension
02_Doe_Jane.file extension
4. Design Statement.doc
Include full name and contact info

WEEKLY BREAKDOWN (subject to change and availability of Galen Lab)**

- 1: Intro + in class exercise + assigning presentations
- 2: Flat packs and Packaging
- 3: Flat packs and Packaging
- 4: Flat packs and Packaging
- 5: Volume and Form: inflatable
- 6: Volume and Form: inflatable
- 7: Volume and Form: inflatable
- 8: Super graphics and sticker exchange
- 9: Super graphics and sticker exchange
- 10: Super graphics and sticker exchange
- 11: Oral presentations and Final project assigned
- 12: Oral presentations
- 13: Oral presentations
- 14: Final project prototyping

FINAL DUE May 3rd 7pm

Statement on Academic Conduct and Support Systems

Academic Conduct:

Plagiarism – presenting someone else’s ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, “Behavior Violating University Standards” <https://policy.usc.edu/wp-content/uploads/2021/04/SCampus-Part-B.pdf>. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on [Research and Scholarship Misconduct](#).

Students and Disability Accommodations:

USC welcomes students with disabilities into all the University’s educational programs. The Office of Student Accessibility Services (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at osas.usc.edu. You may contact OSAS at (213) 740-0776 or via email at osasfrontdesk@usc.edu.

Support Systems:

Counseling and Mental Health - (213) 740-9355 – 24/7 on call
sites.google.com/usc.edu/counseling-mental-health

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

988 Suicide and Crisis Lifeline - 988 for both calls and text messages – 24/7 on call
988lifeline.org The 988 Suicide and Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline) provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week, across the United States. The Lifeline is comprised of a national network of over 200 local crisis centers, combining custom local care and resources with national standards and best practices. The new, shorter phone number makes it easier for people to remember and access mental health crisis services (though the previous 1 (800) 273- 8255 number will continue to function indefinitely) and represents a continued commitment to those in crisis.

Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-9355(WELL) – 24/7 on call [sites.google.com/usc.edu/rsvpcclientservices/home](https://sites.google.com/usc.edu/rsvpclientservices/home)

Free and confidential therapy services, workshops, and training for situations related to gender- and powerbased harm (including sexual assault, intimate partner violence, and stalking). *Office for Equity, Equal Opportunity, and Title IX (EEO-TIX)* - (213) 740-5086 <https://eeotix.usc.edu/>

Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

Reporting Incidents of Bias or Harassment - (213) 740-5086 or (213) 821-8298 usc-advocate.symplcity.com/care_report

Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

The Office of Student Accessibility Services (OSAS) - (213) 740-0776 osas.usc.edu
OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.
USC Campus Support and Intervention - (213) 740-0411 campussupport.usc.edu

Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity, Equity and Inclusion - (213) 740-2101 diversity.usc.edu Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

USC Emergency - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call
emergency.usc.edu Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible. *USC Department of Public Safety* - UPC: (213) 740-6000, HSC: (323) 442-1200 – 24/7 on call dps.usc.edu

Non-emergency assistance or information.

Office of the Ombuds - (213) 821-9556 (UPC) / (323-442-0382 (HSC) ombuds.usc.edu

A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

Occupational Therapy Faculty Practice - (323) 442-2850 or otfp@med.usc.edu
chan.usc.edu/patient-care/faculty-practice. Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.