San José State University
Department of Design
DSIT 29, Design Process
Spring 2022

Course and Contact Information

Instructor:	Kyu Young Kim, AIA, NCARB
Email:	kyu.kim@sjsu.edu
Office Hours:	Tues / Thurs 1:00pm – 3:00pm, (by appointment)
Class Days/Time:	Tues / Thurs 3:00pm – 5:50pm
Classroom:	IT241 Zoom Meeting ID: TBA Password: TBA

You must be authenticated and logged into Zoom using your sjsu.edu account to get into our class meetings.

Course Format
This course will be a hybrid class this semester with online Zoom class meetings to start the first several weeks of the semester, transitioning to in-person class meetings (as allowed) focused on abstract problem solving through analysis and critiques, the process of design thinking, and storytelling. Students will be required to make observations, study, draw, and produce finished drawings and models throughout the course of the class. This course will cover both analog and digital processes for applying fundamental design principles dealing with relation to space, architecture, and the environment through a series of design problems.

A laptop desktop computer will be required to initiate, work-on, complete, and submit assignments. Students will also be required to have a dedicated sketchbook for documentation of notes, sketches, and other design process minutiae to be recorded. Traditionally, an architectural model making toolset has been required, along with basic drawing and drafting tools, in addition to digital drawing and model making tools.

Course materials such as this syllabus, digital links, handouts, notes, assignment instructions, etc. can be found on Canvas Learning Management System course login website at http://sjsu.instructure.com. *Students are responsible for regularly checking the using and checking Canvas (or other communication system as indicated by the instructor) to learn of any updates.*

Course Description
"Development of skills to work with point, line and space to create volumes with spatial relationships."

In this class you will learn about working in two dimensions, and gradually learn to make the transition into three-dimensional forms and spaces. The assignments for this class are based on forms of translation, or changing from one form or design, as they grow out of point, line, and plane and into volumes with spatial relationships. You will learn fabrication techniques and formal issues, and expressive potential will be discussed in relation to each assignment, as well as issues like creative problem-solving, iterative and rigorous production, experimentation, and research. Slide lectures will periodically provide you with ideas and supplemental information.

Students will need to access Canvas to complete and submit assignments. These are unprecedented times. Expect the unexpected. Be flexible. Be curious. Use design thinking. You are only going to get out, as much as you put in.

Learning Outcomes

Upon successful completion of this course, students will understand and be able to exemplify:

- Speaking and Writing Skills; ability to read, write, listen, and speak effectively
- Design thinking skills, including graphic skills, drawing skills, modeling skills
- Understanding of how and when to raise clear and precise questions, use abstract ideas to interpret information, consider diverse viewpoints, reach well-reasoned conclusions, and test against relevant criteria and standards
- Formal Ordering Systems
- Understanding of the fundamentals of visual perception and the principles and systems of order that inform two- and three-dimensional design, and architectural composition.
- Fundamental Design Skills
- Ability to use basic architectural principles in the design of buildings and interior spaces
- Working in both 2D to 3D
- How to fabricate a physical model from a drawing through measuring and notation.
- How to test structure, form and material through physical modeling and construction.
- Physically working through a material process such as folding, casting and wood assembly to create a finished product.
- Precedent Analysis

Textbooks and Readings

In lieu of required textbooks for the semester, you will be required to purchase certain tools including model making materials to be announced in class. The following books are *highly recommended* and will serve as references throughout your academic and professional careers.

Recommended Texts (any edition acceptable):

Francis D. K. Ching, **Architecture: Form, Space, and Order**, 4th Edition,
New York: Van Nostrand Reinhold Publication, 2010.

Matthew Frederick, **101 Things I Learned in Architecture School**, MIT Press, 2007.

**Good resource for secondhand books: www.thriftbooks.com

Other Readings

Refer to SJSU CANVAS throughout the course of the semester as there may be occasional required readings.

Course Requirements and Assignments

The course is organized mainly around design studio work and in-class work time. Lectures will introduce topics and assignments and provide an overview of issues and outline the design principles and communication concepts that are expected to be investigated. Design studio will be a period of focused exploration of design issues and communication skills. "Finished" projects and work in progress will be presented and discussed during each class session to make important points about design. Each digital pin-up will be graded. It is expected that your work will be ready to share and present digitally within the first 10 minutes of class – if it is not, you will receive an incomplete grade for that assignment.

Your final grade for this class will be based on an accumulation of class participation in reviews, the online studio environment, and successful completion of assignments. Assignment grades will be based on a set of criteria including the thoughtfulness and originality of the concept, rigorous and iterative experimentation, the application of the design principles you have learned, and the time and care you have invested in making models, final objects, renderings, and presentations.

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally three hours per unit per week) for instruction, preparation/studying, or course related activities. Other course structures will have equivalent workload expectations as described in the syllabus.

Software Requirements
SketchUp
https://www.sketchup.com/
Go to Plans and Pricing > Higher Education > For Students $55/year

Evaluation and Grading
Reviews and Critiques:
There will be numerous class critiques of assignments and projects throughout the course of the semester. Some of these may be attended by visiting designers and professionals in the architectural profession, if opportunity allows. Reviews and critiques will usually take up a whole class period. *Participation in critiques is mandatory*; but rushing in towards the end of a critique with a piece you just finished will be considered non-participation in that critique and you will not be allowed to present your work. It is extremely important that you are awake, alert, and fully involved in each critique for the entire class period. Your participation is not just in your presentation, but also in the thoughtful listening and giving feedback and critiquing of your peers. Class Participation will be based on preparedness for in class desk critiques and pin ups and your role in group projects and/or discussions.

Breakdown:

Sketchbook	5%	
Assignments	10%	
Project 1	15%	
Project 2	20%	
Project 3	40%	
Participation	10%	
Total:	**100%**	

97-100 = A+ ; 93-96 = A ; 90-92 = A-
87-89 = B+ ; 83-86 = B ; 80-82 = B-
77-79 = C+ ; 73-76 = C ; 70-72 = C-
67-69 = D+ ; 63-66 = D ; 60-62 = D-
59 and below = F

A - Excellent. Indicates work of a very high character; the highest grade given. This grade is reserved for work that shows leadership and inspiration, demonstrating significant insight developed to its fullest extent and presented with exquisite craftsmanship.

B - Good. Indicates work that is definitely above average, though not of the highest quality. This work shows thorough exploration and development, and is well presented with good craftsmanship, but it may not rise t the highest level of excellence.

C - Fair. Indicates work of average or medium character. Work in this category demonstrates compete fulfillment of the stated requirements and an understanding of the issues covered, but does not exceed the expectations of understanding, development, or execution.

D - Pass. Indicate work below average and unsatisfactory. The lowest passing grade. Though work may meet the minimum requirements, it lacks depth, development or is unsatisfactorily crafted.

F - Fail. Indicates work that the student knows so little of the subject that it must be repeated in order that credit may be received. Work in this category may be unfinished, unimaginative, underdeveloped or poorly executed, and shows minimal understanding of issues.

"This course must be passed with a C or better as an SJSU graduation requirement."

Classroom Protocol
Teaching is a two-way dialogue. Attendance is expected at all class sessions and the student's presence throughout the entire class time is required. Whenever possible, the professor should be notified in advance of a student's inability to attend a class. In the event the professor is late for class, students are authorized to leave after a half-hour wait. It is important to be on time and to be present. It is possible to produce "A" work in the class yet receive a lower grade due to

poor class participation and attendance. Students must be present for in class critiques, students who arrive late will not be allowed to present.

If you miss a class, it is your responsibility to *find out what you missed before the next class*. Technical demos and lectures will not be repeated for students who miss a class. Video recordings (if any) of missed classes may not be shared. Projected critique dates are given to you in advance, however, in some instances these may change do to extenuating circumstances, and it is your responsibility to find out about any announcements made in class, by communicating with your classmates.

Deadlines will be made available to you in class. Any work not turned in by the due date and time is due is considered late. Ten percent will be deducted from the grade for every class period it is not turned in. Special circumstances will be taken into consideration (e.g. Illness, court appearance, death of a relative). All assignments must be completed and turned in to receive a passing grade for the class.

The instructor reserves the right to alter assignments and change project due dates with sufficient notice to the students.

Cell Phones
Students will turn their cell phones off or silence them while in class. They will not answer their phones in class. Students whose phones disrupt the course and do not stop when requested by the instructor will be referred to the Judicial Affairs Officer of the University. Remember that we have limited time to meet, please take advantage of the time we do have by being fully engaged.

Computer Use
In the classroom, faculty allow students to use computers only for class-related activities. These include activities such as taking notes on the lecture underway, following the lecture on Web-based PowerPoint slides that the instructor has posted, and finding Web sites to which the instructor directs students at the time of the lecture. Students who use their computers for other activities or who abuse the equipment in any way, at a minimum, will be asked to leave the class and will lose participation points for the day, and, at a maximum, will be referred to the Judicial Affairs Officer of the University for disrupting the course. (Such referral can lead to suspension from the University.) Students are urged to report to their instructors computer use that they regard as inappropriate (i.e., used for activities that are not class related).

Backing Up Work/Caring for your Work
Purchase a hard drive and backup your work. You *MUST* also use google drive. *Work lost by hardware/software failure will not be tolerated.*
You will be required to transport your drawings to and from class. Do not let these drawings get damaged in your commute - take the utmost care to prevent damage from occurring and consider a folio to protect your drawings.

Equipment, Materials and Technological Requirements Computer
Each student will need a laptop that is powerful enough and meets the minimum requirements to run the appropriate software for this class. Ensure that you have ample storage space on the hard drive, high quality reliable external drive, and a system for regular external backups of up your work. You are required to have a laptop and ALL of the software listed below installed by the 4th class meeting. You will use these software applications and newer versions and variations on them throughout your academic and professional career.

Shop Access (TBD)
The Shop Safety Test must be passed before you can use the shop. If you are unfamiliar with the shop or if your yearly safety test has expired, pay the shop safety test fee as soon as possible at the 1st floor of the 10th Street Parking Garage. Pay directly into the shop fee fund, and keep your receipt as proof of payment. Upon announcement, you may be required to take the shop safety training and test in-class time during the class. Your fee must be paid prior to taking the test (bring receipt).

Model-Making Materials
Students are responsible for purchasing model-making materials as required for assignments. Materials may include: wood, acrylic, paper, plastics, chipboard, museumboard, foamcore, and other materials suitable for model making. See next page for more…

Presentation Materials
High quality paper for printouts, professional printing services as required for assignments (8-1/2" x 11" and 11 x 17")

Basic Supplies
The tools and materials listed below are highly recommended. All have been selected for their versatility and historical benefit to architecture students. Be prepared to find new ways of making – during the semester you will need to use materials specific to your project. Tools and materials may change at instructor's discretion.

These are basic supplies which you should have throughout the semester, and should bring with you to the studio, every class. These are tools and materials which you will continue to use throughout your education and career, so you are advised to obtain professional quality.

- Sketchbook
- Olfa Knife and blades (snap-off kind)
- X-acto Knife and blades (twist-to-lock kind)
- Drafting tape (recommended 1⁄2" width, or drafting dots)
- Erasers (Mars white plastic #526-50 or similar)
- Quick-setting Glue (Aleen's Tacky Glue or similar)
- Hot glue gun and hot glue sticks
- Lead pointer/sharpener (handheld)
- Lead holders (at least 2) and leads (H, 2H, 4H, 6H)
- Sketching pencils (variety based on personal preference)
- Black ink art pens (Micron, Faber-Castell, or similar)
- Steel cutting rulers with cork backing 14" and 36"
- Cutting mat 24" x 36"
- Triangles: 30-60-degree 6" or 8", 45-degree 6" or 12" (triangle sizes are just recommendations)
- Straight edge: rolling / parallel glider (for drawing parallel lines)
- Tweezers (for use while model making)
- Drafting compass (for drawing circles, curves, arcs)

- T-pins – one box (100 or 200)
- Architectural scale (12")
- Tracing paper roll (12" canary yellow or white)
- Erasing shield (for specific cropped erasing)
- Dusting brush / duster (for eraser rubbings)
- Sketchbook (6" x 8-1/4" dotted preferred)
- Laptop computer (w/ software loaded and ready to use)
- Computer mouse (invest in a drafting/modeling mouse)
- Toolbox (to carry your tools and supplies)

Model-Making Materials
Students are responsible for purchasing materials as required for assignments. Materials may include: PCV sheets, acrylic, paper, plastics, balsa/bass wood, wires, pvc tubes, poster board, chipboard, white foam core board, white corrugated poster board, and other materials suitable for model making.

DSIT 29 – Design Process, Fall 2021, Course Schedule
Dates and assignments subject to change with prior notice

Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1 Th	1/27	Course Introduction / Required Hardware & Software / Intro Name Mnemonic
2 Tu	2/1	Name Mnemonic Due / Knolling Activity / Self Introductions Assigned
2 Th	2/3	Self Intro Presentations / Intro 3d Cube Puzzles / Line Drawings
3 Tu	2/8	1st Line Drawings Due / 3d Cube Puzzles / 2nd Line Drawings / Work Time
3 Th	2/10	Introduction to SketchUp / 2nd Line Drawings Due / 3d Cube Puzzles Series I
4 Tu	2/15	3d Cube Puzzles Series I Due / 3d Cube Puzzles Series II / Work Time
4 Th	2/17	CHOBU Introduction / Natural Space Charrette
5 Tu	2/22	Project I 3d Cube Puzzles Final Deliverables Due / CHOBU Analysis
5 Th	2/24	CHOBU Analysis Presentations / Intro Project II Scraposition
6 Tu	3/1	Scraposition Model Draft Due / Work Time
6 Th	3/3	Scraposition Plans and Elevations / Work Time
7 Tu	3/8	Scraposition Work Time
7 Th	3/10	Scraposition Axonometric Draft
8 Tu	3/15	Scraposition Analog Deliverables Due / Digital Scraposition Intro
8 Th	3/17	LayOut tutorial / Work Time
9 Tu	3/22	Project II – Scraposition Analog & Digital Deliverables Due
9 Th	3/24	Architect Research Assignment / Project III Introduction
10 Tu	*3/29*	*Spring Break – No Class*
10 Th	*3/31*	*Cesar Chavez Day – No Class*
11 Tu	4/5	Architect Research Assignment Presentations
11 Th	4/7	Architect Research Assignment Deliverables Due / Individual Desk Critiques
12 Tu	4/12	Individual Desk Critiques / Work Time
12 Th	4/14	Project III Midterm Presentations
13 Tu	4/19	Project III Work Time
13 Th	4/21	Plan, Elevations, Section Due / Individual Desk Critiques & Work Time
14 Tu	4/26	Perspective Drawings Due / Individual Desk Critiques
14 Th	4/28	Project III Work Time
15 Tu	5/3	Project III Layout Check / Final Project Dry Run
15 Th	5/5	Project III Layout Check / Final Project Dry Run
16 Tu	5/10	Project III Due / Final Review
16 Th	5/12	Exit Interviews / Final Deliverables Due

University Policies

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU's policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. To learn important campus information, view University Policy S16-15 and SJSU current semester's Policies and Procedures. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not address the issue, it is recommended that the student contact the Department Chair as the next step.

Workload and Credit Hour Requirements

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.

Attendance and Participation

Attendance per se shall not be used as a criterion for grading. However, students are expected to attend all meetings for the courses in which they are enrolled as they are responsible for material discussed therein, and active participation is frequently essential to ensure maximum benefit to all class members. In some cases, attendance is fundamental to course objectives; for example, students may be required to interact with others in the class. Attendance is the responsibility of the student. Participation may be used as a criterion for grading when the parameters and their evaluation are clearly defined in the course syllabus and the percentage of the overall grade is stated. The full policy language can be found at http://www.sjsu.edu/senate/docs/F15-3.pdf

Accommodation to Students' Religious Holidays

University Policy S14-7 states that San José State University shall provide accommodation on any graded class work or activities for students wishing to observe religious holidays when such observances require students to be absent from class. It is the responsibility of the student to inform the instructor, in writing, about such holidays before the add deadline at the start of each semester. If such holidays occur before the add deadline, the student must notify the instructor, in writing, at least three days before the date that he/she will be absent. It is the responsibility of the instructor to make every reasonable effort to honor the student request without penalty, and of the student to make up the work missed.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage. Students should be aware of the current deadlines and penalties for dropping classes (Late Drop Information).

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:

"Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material."

In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.

"Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent."

Academic integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy F15-7 requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. Visit the Student Conduct and Ethical Development website for more information.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) to establish a record of their disability.

Student Technology Resources

Computer labs and other resources for student use are available in:

- Academic Success Center at http://www.sjsu.edu/at/asc/ located on the 1st floor of Clark Hall
- Academic Technology Computer Center at http://www.sjsu.edu/at/hd/ on the 1st floor of Clark Hall
Associated Students Computer Services Center at http://as.sjsu.edu/ascsc/ on the 2nd floor of the Student Union Student Computing Services at http://library.sjsu.edu/student-computing-services/student-computing-services- center
Computers at the Martin Luther King Library for public at large at http://library.sjsu.edu/reserve-studymeeting-room/computers-king-library
Additional computer labs may be available in your department/college
A wide variety of audio-visual equipment is available for student checkout from Media Services located in IRC 112. These items include DV and HD digital camcorders; digital still cameras; video, slide and overhead projectors; DVD, CD, and audiotape players; sound systems, wireless microphones, projection screens and monitors.

SJSU Counseling and Psychological Services

The SJSU Counseling and Psychological Services is located on the corner of 7th Street and San Carlos in the new Student Wellness Center, Room 300B. Professional psychologists, social workers, and counselors are available to provide confidential consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit Counseling and Psychological Services website at http://www.sjsu.edu/counseling