Design is a plan for arranging elements in such a way as best to accomplish a particular purpose. –Charles Eames

Design is so simple, that’s why it’s so complicated. –Paul Rand

Course Description
This course will introduce you to the theories and techniques of creating objects in three dimensions. You will become familiar with the vocabulary used to describe, critique and understand three dimensional objects and begin to recognize the “elements of design” as they appear everywhere in the physical world. Through the application of the “principles of design” you will learn to manipulate and organize these “elements” into dynamic and meaningful compositions. The exploration of different fabrication techniques, connective systems, materials and readings will help you develop a personal vocabulary and repertoire of skills that you will be able to access when creating your work. The skills and knowledge you acquire will serve as a foundation for future studies, whether in Fine Art or Design.

Course Goals and Learning Outcomes
Upon completion of this course students will be able to:
1. Make an object using a process of abstraction: use an existing form (natural or man-made) as the basis or inspiration for a new object that captures the “essence” of the original form without directly mimicking it.

2. Practice iterative design processes, using a problem solving routine that begins with brainstorming and sketching, refining of ideas, model making, testing, reassessment, and construction of a final solution.

3. Design objects with the capacities and qualities of a given material in mind, allowing these to influence the form of each object.

4. Integrate joinery and connective systems into the design of an object from its inception.

5. Assess an existing object or render a new object in two dimensions using cross-section drawings or the principles of patternmaking.

6. Fabricate objects using a wide variety of power tools and hand tools. Practice a variety of woodworking, metalworking, mold making and other constructive, subtractive and manipulation techniques.

7. Make objects that tell a story or offer “cultural critique,” the questioning of commonly held assumptions and values.

8. Recognize and use terminology specific to the field of three-dimensional design and sculpture.

Required Texts/Readings


Other Readings

*Understanding Comics: The Invisible Art.* Scott McCloud.

Chapter 3 of *Criticizing Art.* Terry Barret.

Library Liaison

Rebecca Kohn
rebecca.kohn@sjsu.edu
408-808-2007

Course Requirements and Assignments:

In this course you will complete 4 assignments and 2 related exercises. Process will be an important aspect of this class. Power Point presentations and in class demonstrations will provide ideas and inspiration for developing your problem solving skills in a variety of materials. Each project assignment will culminate in a group critique where you will evaluate and discuss each other’s work. Participation in the critiques is MANDATORY this is a large part of your participation grade so don’t be absent. There will be 2 vocabulary quizzes. Each student will also be responsible for 3 brief blog entries on an aspect of design, an artist and/or a designer of their choice. You will be learning the safe use of a variety of tools and materials both in the classroom and the “Shop”. Access to the extensive selection of tools available in the shop facilities is dependant on your passing a tool safety test.

I hope you will approach each class period as an opportunity for SERIOUS PLAY. I expect each student to approach all of the assignments with thoughtfulness, dedication, careful craftsmanship and attention to detail.

Assignment 1 “Constellation” Primarily Addresses LO4, LO6,
Assignment 2 “Chronomotion” Primarily Addresses LO1, LO2, LO5, LO6
Assignment 2 “Soundscape” Primarily Addresses LO1, LO2, LO3, LO6
Assignment 4 “Juxtapose” Primarily Addresses LO4, LO6, LO7
Required Readings, Writing Assignments, Critiques and Quizzes Primarily Address LO8
SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

Grading Policy:

Exercise 1. 10%
Exercise 2. 10%
Participation and Blog entries. 10%
Quizzes 10%
Assignment 1. 15%
Assignment 2. 15%
Assignment 3. 15%
Assignment 4. 15%
Total 100%

All assignments will be assessed on a scale of 0-100.
Percentage Breakdown
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

An “A” grade is reserved for exceptional work that shows inspiration and demonstrates significant insight developed to its fullest extent and presented with exquisite craftsmanship.
A “B” grade indicates good 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 does not rise to the highest level of excellence.

“C” indicates fair work of average or medium character. Work in this category demonstrates complete fulfillment of the stated requirements and an understanding of the issues covered, but does not exceed the expectations of understanding, development, or execution.

“D” is the lowest passing grade and indicates work below average and unsatisfactory. Though work may meet the minimum requirements, it lacks depth, development or is unsatisfactorily crafted.

“F” is for fail and indicates that the student understands so little of the subject that it must be repeated in order for credit to be received. Work in this category may be unfinished, unimaginative, underdeveloped or poorly executed, and shows minimal understanding of issues.

**Classroom Protocol:**
It is important that you attend every class. There will be numerous in class demonstrations, presentations and exercise so please arrive punctually and stay for the entire class. Showing up late to class is disrespectful, and will reflect poorly on your class participation grade. If for some reason you do have to miss a class it is YOUR responsibility to find out what you missed BEFORE the next class. I will not be repeating in class demonstrations so have a fellow student fill you in or make an appointment to meet with me during my office hours. We have lots to cover and the semester goes by surprisingly fast so please make it to class. Special circumstances will of course be taken into consideration (eg Illness, court appearance, death of a relative.) Three or more unexcused absences will result in the drop of a full grade.

**Late Work**
Work that is not finished and presented on the assigned critique day will drop a full grade for every day it is late. Late work will not be critiqued by the class which means you miss out on one of the most valuable aspects of a studio course: honest evaluation, critical feedback and
suggestions from your fellow students.

Questions? Ask! Ask! Ask! Ask! Ask!
It is important that you ask any and all questions you have as we go along. If you are confused about an assignment, or if I haven't made something clear, please ask me in class, if you have a question it is likely that many of your classmates are wondering the same thing. You can also make an appointment during my office hours. I will be happy to discuss any stage of a project with you.

The Shop Safety Test
Students who use the shop facilities will be required to pay a $20 fee to take the Shop Safety Test before they can use the facility. The fee must be paid prior to the student taking the Shop Safety Test. Students may pay at the Bursar’s Office, located in the Student Services Center, directly into Fund 62089 with cash, check, or ATM debit card. The test and fee are required only once a calendar year and the test is valid for one (1) calendar year.

In order to take the Shop Safety Test and use the School of Art & Design Shop Facilities, you must:

Bring a receipt for the fee paid at the Bursar’s Office into Fund 62089. The Bursar’s Office accepts cash, check, or ATM debit card payments.

We will watch the Shop Safety Video during class in preparation for the test. The test is an open-notes test, so take extensive notes as we watch the video. When you have finished, you will be asked to fill out a questionnaire (provided) and we will discuss the answers as a class as a final review before taking the test.

Material Safety Data Sheets:
Forms called MSDS sheets are required for all potentially hazardous materials and are to be supplied to the department by students bringing hazardous materials into the building. They are available from the vendor (store) where the material was purchased, and are required to be on file with the department before materials can be used in any department facility (including the Shop or the 3-D room.) Potentially hazardous materials could include spray paints and adhesives, epoxy resins, etc. Students are
required to supply MSDS sheets to the department whenever bringing hazardous materials into the building.

**Cell Phones:**
Students will turn their cell phones off or put them on vibrate mode 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.

**Computer Use:**
In the classroom, computers are to be used for class-related activities only. 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).

**Projected Calendar Schedule**

This is the proposed schedule for the semester, be aware that this schedule may need to be adjusted or changed as the class progresses. Any changes to the schedule will be announced in class and via email. We have lots to do and the semester is going to seem far too short. Students are expected to use any class time that is not dedicated to demonstrations or presentations to work towards completing the assigned exercise and projects.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics, Readings, Assignments, Deadlines</th>
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<tbody>
<tr>
<td>1</td>
<td>8/26</td>
<td>Critique exercise #1. Assign exercise #2. Slides exercise #2.</td>
</tr>
<tr>
<td>Week</td>
<td>Date</td>
<td>Topics, Readings, Assignments, Deadlines</td>
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<tr>
<td>2</td>
<td>8/31</td>
<td>Shop tour and Shop Safety Video.</td>
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<tr>
<td>2</td>
<td>9/2</td>
<td>Critique exercise #2. Slides assignment #1.</td>
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<tr>
<td>3</td>
<td>9/7</td>
<td>Labor Day no class.</td>
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<tr>
<td>3</td>
<td>9/9</td>
<td>Shop test? Vocab slides. Tensile slides.</td>
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<tr>
<td>4</td>
<td>9/14</td>
<td>In class work time assignment #1.</td>
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<td>4</td>
<td>9/16</td>
<td>In class work on assignment #1. Slides assignment #2 set-1.</td>
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<tr>
<td>5</td>
<td>9/21</td>
<td>Critique assignment #1.</td>
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<tr>
<td>5</td>
<td>9/23</td>
<td>Evaluate motion sequences. Notational slides and drawing demo.</td>
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<td>6</td>
<td>9/30</td>
<td>In class work time for exploratory models.</td>
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<td>7</td>
<td>10/5</td>
<td>Progress critique exploratory models.</td>
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<td>7</td>
<td>10/7</td>
<td>Vocab slides set-2. In class work time for assignment #2.</td>
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<td>8</td>
<td>10/12</td>
<td>In class work time for assignment #2.</td>
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<tr>
<td>8</td>
<td>10/14</td>
<td>In class work time for assignment #2.</td>
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<tr>
<td>9</td>
<td>10/19</td>
<td>Critique assignment #2. Slides assignment #3 set-1.</td>
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<td>9</td>
<td>10/21</td>
<td>Demo saws etc. In class work time for sketches. Slides set-2 and 3</td>
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<tr>
<td>10</td>
<td>10/26</td>
<td>Drawings due. In class work time for assignment #3.</td>
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<td>10</td>
<td>10/28</td>
<td>In class work time for assignment #3.</td>
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<td>11</td>
<td>11/2</td>
<td>In class work time for assignment #3.</td>
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<td>11</td>
<td>11/4</td>
<td>In class work time for assignment #3.</td>
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<td>12</td>
<td>11/9</td>
<td>Quiz #2. In class work time for assignment #3.</td>
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<tr>
<td>Week</td>
<td>Date</td>
<td>Topics, Readings, Assignments, Deadlines</td>
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<td>12</td>
<td>11/11</td>
<td>Veteran’s Day no class.</td>
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<tr>
<td>13</td>
<td>11/16</td>
<td>Critique assignment #3.</td>
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<td>13</td>
<td>11/18</td>
<td>Slides assignment #4 set-1. In class work time assignment #4.</td>
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<td>14</td>
<td>11/23</td>
<td>Slides assignment #4 set-2. In class work time for assignment #4.</td>
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<td>14</td>
<td>11/25</td>
<td>In class work time assignment #4.</td>
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<td>15</td>
<td>11/30</td>
<td>In class work time assignment #4.</td>
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<tr>
<td>15</td>
<td>12/2</td>
<td>In class work time assignment #4.</td>
</tr>
<tr>
<td>16</td>
<td>12/7</td>
<td>In class work time assignment #4.</td>
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<td></td>
<td>12/10</td>
<td>Final Exam 9:45-12:00</td>
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**University Policies**

**Dropping and Adding**
Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at [http://info.sjsu.edu/static/catalog/policies.html](http://info.sjsu.edu/static/catalog/policies.html). Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at [http://www.sjsu.edu/provost/services/academic_calendars/](http://www.sjsu.edu/provost/services/academic_calendars/). The Late Drop Policy is available at [http://www.sjsu.edu/aars/policies/latedrops/policy/](http://www.sjsu.edu/aars/policies/latedrops/policy/). Students should be aware of the current deadlines and penalties for dropping classes. Information about the latest changes and news is available.
Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course. “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.” It is suggested that the greensheet include the instructor’s process for granting permission, whether in writing or orally and whether for the whole semester or on a class by class basis. 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 S07-2 at http://www.sjsu.edu/senate/docs/S07-2.pdf 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. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

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 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.

In 2013, the Disability Resource Center changed its name to be known as the Accessible Education Center, to incorporate a philosophy of accessible education for students with disabilities. The new name change reflects the broad scope of attention and support to SJSU students with disabilities and the University's continued advocacy and commitment to increasing accessibility and inclusivity on campus.

Student Technology Resources

Computer labs for student use are available in the Academic Success Center at http://www.sjsu.edu/at/asc/ located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library.

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 Peer Connections

Peer Connections, a campus-wide resource for mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and
other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).

Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit Peer Connections website at http://peerconnections.sjsu.edu for more information.

**SJSU Writing Center**
The SJSU Writing Center is located in Clark Hall, Suite 126. All Writing Specialists have gone through a rigorous hiring process, and they are well trained to assist all students at all levels within all disciplines to become better writers. In addition to one-on-one tutoring services, the Writing Center also offers workshops every semester on a variety of writing topics. To make an appointment or to refer to the numerous online resources offered through the Writing Center, visit the Writing Center website at http://www.sjsu.edu/writingcenter. For additional resources and updated information, follow the Writing Center on Twitter and become a fan of the SJSU Writing Center on Facebook. (Note: You need to have a QR Reader to scan this code.)

**SJSU Counseling Services**
The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide 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 Services website at http://www.sjsu.edu/counseling.