

3D Design for VC

ART 1306-006
Spring 2019 | MW 11a-1:50pm
FAB 291

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Office Hours: M 3-5pm, FAB 333, by appointment

Description of Course Content:

This course will develop critical thinking skills pertaining to three-dimensional design practice. Various 3D principles and techniques will be explored to enhance your ability to iterate concepts spatially. You will be required to harness design skills you have learned in previous courses (2D, digital design, etc.) and use these skills to experiment with three-dimensional forms, creating a small body of 3D design work at the end of the term.

Student Learning Outcomes:

1. The student will be able to identify basic 3-D design elements and principles.
2. The student will be able to identify and use a variety of tools and procedures necessary to complete their projects.
3. The student will demonstrate the ability to develop complex and sophisticated ideas through independent research, iterative design, and peer feedback.
4. The student will be able to analyze, critique and discuss designs in the classroom and in professional practice.
5. The student will develop a general awareness of 3D form-making with technology.

Requirements:

1. Regular attendance and the completion of all assignments
2. Assignments not complete by due dates will be subject to late penalties – If you come to all critiques and participate (even if not finished), you will be given extra time to completely finish a project.
3. Participation in/preparation for all critiques.
4. Regular studio maintenance and clean-up after projects
5. Documentation of design process

About the Assignments:

4 major project grades will reflect research and mastery of techniques related to three-dimensional design.

All projects will be accompanied by hands-on demonstrations and lectures pertinent to the project at hand. Participation in these activities will be reflected in the participation grade.

About the Design & Critique Process:

Each project's success will require iterative practice, that is, the regular creation of prototypes and physical sketches in development of the final project. Each major project will have scheduled in-progress critiques to evaluate progress and provide feedback for the final iteration. These may be held one-on-one with me, in small groups, or with the class.

Final critiques will be held with the entire class, to note how the project has changed over time, and to what result.

Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 4-6 hours per week of their own time in course-related activities, including research, reading required materials, completing assignments, preparing for class critiques, etc.

Required materials list:

Unlined sketchbook

Xacto knife with blades

Cutting mat (for home, we will have some in class to use)

Metal ruler with cork back

Mechanical Pencil

Tape- double-stick and normal

Glue- sticks and tacky glue

Various modeling materials including but not limited to: cardstock, museum board, foam board, chipboard, cardboard, balsa wood, basswood, and others according to your project scope.

MATERIAL EXPERIMENTATION IS ENCOURAGED

Course Required Text:

McCreight, Tim. Design Language (available in the VRC for use during open hours)

Readings available in-class:

Jackson, Paul. Pop-Up Designs.

Jackson, Paul. Folding Techniques for Designers.

Jackson, Paul. Structural Packaging.

Jackson, Paul. Cut and Fold Techniques for Promotional Materials.

Additional readings and videos will be announced during the course.

Project Schedule:

One: The Dream City	Two: (Die)section To Contain	Three: Puzzle Lab	Four: To Display
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Field Trips:

UTA FabLab

Guest Lectures & Exhibition Visits

CorrePro Demo

Course Schedule*

* This is a living document and subject to change.

Date	Schedule
M Jan 14	Introductions, Project 1 Intro , Sketchbook Assignment Intro
W Jan 16	Pop-up Demo, Workday
W Jan 23	First Set Sketch Models Due
M Jan 28	Second Set Sketch Models Due, Mid-Progress Critique
W Jan 30	Workday
M Feb 4	Workday
W Feb 6	Project 1 Critique, FabLab Visit
M Feb 11	Project 2 Intro, Net Demo
W Feb 13	Illustrator for Lasercutting Demo, Workday
M Feb 18	Workday
W Feb 20	Prototypes Due, Mid-Progress Critique
M Feb 25	Workday
W Feb 27	Workday

M Mar 4	Workday
W Mar 6	Project 2 Crit, Project 3 Intro
<i>--SPRING BREAK--</i>	
M Mar 18	Project 3 Intro Continued, TinkerCAD/3D Printing Demo
W Mar 20	Cardboard Modeling + Joinery Demo, Workday
M Mar 25	Project 4 Intro , Workday
W Mar 27	Potential CAD Table Visit, Workday
M Apr 1	Project 3 Prototype Due, Workday
W Apr 3	Workday
M Apr 8	Workday
W Apr 10	Project 4 Sketch Models Due, Workday
M Apr 15	Digital File Review, Workday
W Apr 17	Digital File Review, Workday
M Apr 22	Workday
W Apr 24	Workday
M Apr 29	Project 3 Critique
W May 1	Final Project 4 Critique, Studio Clean-up

Attendance: At The University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator in student success. Each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance.

As the instructor of this section, I view participation to all class meetings as a requirement. It is critical to be in class on time. Information will not be repeated. The students will be responsible for any material covered during their absence, which includes notes on demonstrations. Students will be allowed to miss a maximum of one class without documentation (free pass) plus a maximum of two classes with documentation for total of three absences during the semester where the student's grade would not be affected. These days cannot be demonstration days or critique days; otherwise, the student's grade for the current project would automatically drop one letter even if the absence is documented; 2 missed critiques will drop the student one letter from the final grade. If the student misses a critique day, the project would be due the next class without the benefit of the group critique. The grade for the project will keep dropping one letter for every class day until it is submitted. After the free pass, every two undocumented absence will drop the student a letter from the current project the student is working on.

3 late arrivals or early departures = 1 absence.

6 missed classes = Automatic fail; in this instance it will be recommended that the class is dropped since participation/attendance is of primary importance.

In the case of extended illness or injury, doctor's notes may give justification for a possible grade of "Incomplete." Note that it is not enough to simply be present in class; coming to class without necessary materials to work on your project will be counted as an absence.

Do not expect to use class time to go get materials; class time is for working, learning, and getting input & feedback from your peers and instructor.

I will be taking attendance sporadically at both the beginning and end of class times.

However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients "begin attendance in a course." UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student a grade of F, faculty report the last date a student attended their class based on evidence such as a test, participation in a class project or presentation, or an engagement online via Blackboard. This date is reported to the Department of Education for federal financial aid recipients.

Make-ups: Note that there are few extra credit opportunities in this class that would add to the final grade. It is possible to resubmit any of the four projects throughout the semester for an improvement in earned grade; critiques cannot be made up. Resubmitting projects is only possible when they are turned in completed and on time. Resubmissions can only improve earned grades by one letter grade.

Grading: Within this course you will be given separate grades for projects (total of 4).

Project Breakdown:

Sketchbook Assignments: **10%**

Participation: **10%**

One: The Dream City 20%	Two: (Die)section To Contain 20%	Three: Puzzle Lab 20%	Four: To Display 20%
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Criteria for Project Grading:

Each project has its own rubric, but generally focus on the following criteria:

Research (25%), including sketches, models physical and/or digital process work

Execution (25%), including mastery of technique, craftsmanship, and success in realizing concept in form

Creativity (25%), or uniqueness in realizing concept and aesthetic quality

Critique (25%), or verbalization and participation in class discussion, and defense of one's own work

A=100% - 90% Outstanding Performance, this student has completed all assignments on time and has gone above and beyond the assignment requirements. This student has also pushed him or herself formally and conceptually

B=89% - 80% Very Good Performance, this student has completed all assignments on time and has done so in an above average manner, while exploring conceptual ideas

C=79% - 70% Average Performance, this student has completed all assignments and handed them in on time

D=69% - 60% Poor Performance, this student has failed to complete assignments on time and has not completed the minimum requirements for the class

F=59% and below. Unacceptable Performance

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current undergraduate catalog. For undergraduate courses, see:

http://www.uta.edu/catalog/content/general/academic_regulations.aspx#19

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/ao/fao/>).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA), and Section 504 of the Rehabilitation Act. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Only those students who have officially documented a

need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting: The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

Non-Discrimination Policy: The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.

Title IX Policy: The University of Texas at Arlington ("University") is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. *For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Michelle Willbanks, Title IX Coordinator at (817) 272-4585 or titleix@uta.edu*

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code in their courses by having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System Regents' Rule 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University. Additional information is available at <https://www.uta.edu/conduct/>.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

Student Feedback Survey: At the end of each term, students enrolled in face-to-face and online classes categorized as “lecture,” “seminar,” or “laboratory” are directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback via the SFS database is aggregated with that of other students enrolled in the course. Students’ anonymity will be protected to the extent that the law allows. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law and aggregate results are posted online. Data from SFS is also used for faculty and program evaluations. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: for semester-long courses, a period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, [which is located \[insert a description of the nearest exit/emergency exit\]](#). When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include [tutoring](#), [major-based learning centers](#), developmental education, [advising and mentoring](#), personal counseling, and [federally funded programs](#). For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at <http://www.uta.edu/universitycollege/resources/index.php>