
STUDIO CLASS in Fall 2020 (AR1099FB6)

Course Code	AR1099FB6	Professor(s)	Jonathan Shimony
Prerequisites	None	Office Number	C-504
Class Schedule	W: 12:40-16:05 in MN-16	Office Hours	By appointment Monttessuy #2 +33 (0)6 85 74 59 31
Credits	4	Email	jshimony@aup.edu
Semester	Fall 2020	Office Tel. Ext.	633

Course Description

COURSE DESCRIPTION:

General Topic: The goal of this course is give an introduction to the fundamental concepts of 3-D design. The students will acquire skills while building a variety of models and prototypes. The stress will be on the creative process behind the artifact production.

Questions that will be explored:

- What is design?
- What is a model?
- How can the making of prototypes help us better understand the built environment?
- How can we use different materials “properly?”
- Models and simulations as **mental tools**.
- How do we develop models in different media?
- What can be modeled?

-What are the **limits of design**?

-Creativity and how we might be able to **increase it**?

The course is cross-listed with **Dr Georgi Stojanov's Social Robotics CS2021**. This pair of courses explores two complementary ways of creating stuff. The first one (in AR1003B) is by using different materials (play-doh, clay, wood, carton, pen and paper) to produce abstract and representational sculptures and drawings. In CS2021 we will be designing virtual objects (movies, web pages, computer programs). We will then go on to compare the two approaches by analysing the creative processes, writing narratives about them, and identify what are their similarities and the differences.

This FirstBridge will culminate in merging the “material” and “virtual” approach by learning to design engaging interactive machines or robots using Lego Mindstorms robotic kits as a starting point. These robo-sculptures will move and interact with humans or among themselves in order to do things that are useful, funny, beautiful, or all of the above!

Course Learning Outcomes

General Education

GLACC: *[please remove this section if the course does not fulfill any GLACC requirement.]*

The Global Liberal Arts Core Curriculum (GLACC) degree requirements include the following categories of courses:

- *Integrative Inquiry (coded CCI)*
- *Experiential learning (coded CCX)*
- *Research, Interpretation, and Writing (coded CCE)*
- *Digital Literacy and Communication (coded CCD)*
- *Disciplinary Research Methods and Writing (coded CCR)*
- *Quantitative Reasoning (coded CCM)*
- *Experimental Reasoning Course with Lab (coded CCS)*
- *Expression Française (coded FR)*

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- *AUP Capstone (coded CCC)]*

This course can be used to fulfill the _____ CCI _____ requirement and as such has the following learning outcomes (Learning Outcomes for GLACC components are defined on the [AUP GLACC Website](#)):

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- Inquiry and Creative Expression
- Civic and Ethical Engagement

Course Outline

OUTLINE:

Beginning with simple design exercises the creative tasks become progressively more complex. The program is conceived to have students build upon what they learn in the first part of the semester in order to create an interactive robot at the end of the semester.

September

Week I – 23rd – 25th

Wire Self

With three meters of 0.9 gauge wire and the help of pliers create a 3-D abstract representation of yourself and present your “wire me” to the class.

Homework: Using any materials, create a sculptural “anti-self” that shows what you consider yourself not to be.

Week II – 28th – 2nd

1. Bristol Paper Animal

With Bristol paper and the help of a mat knife, ruler, and compass (but NO adhesives) create a sculpture of a four legged mammal standing on three or four of its legs. The sculpture must be as anatomically correct as possible, volumetric, and not made using origami techniques.

September 30th – last day to drop/add courses online

October

Week III – 5th – 9th

Transformer

With found volumetric objects (plastic bottles, small boxes, etc) and various types of hinges that may be purchased, create a two-in-one transformable toy. The toy must remain intact (mono-block, with no removable/replaceable pieces) at all times.

Week IV – 12th – 16th

Automata Study

The class will visit the Musée des Arts et Métiers and draw the automata on display.

Week V – 19th – 23rd

1. Moving Models

Using appropriate found materials create a vehicle that can move in any possible way through air or water or on land for a minimum of 45 seconds. All motors must be made by the students.

Week VI – 26th – 30th

1. Sense Enhancer

Chose one or several of the five senses and create an instrument that stimulates the chosen senses.

October 28th, Mid-semester

November

Week VII – 2nd – 6th

1. Sculpting Clay

Three approaches to sculpting a life-sized hand will be taught. The first method is completely additive: small balls of clay will be stuck together while measurements of a human hand are

taken in order to make a one to one scale sculpture. The second method is entirely subtractive: a block of clay slightly larger than the size of a hand is cut until the one to one sculpture is created. The third method is a combination of the two previous methods.

Week VIII – 9th- 13th

1. Figure Studies from skeleton

Using both the additive and subtractive method small figure sculptures will be made from the study of a skeleton.

November 11th to 13t, fall break (no classes)

Week VIII – 16th- 20th

Mould Making

Basic mould making techniques with rubber and plaster will be taught.

November 16th, Mid-semester grades due

Week IX – 23rd – 27th

1. New Creatures from Old Ones

Bones from a bird (chicken, duck, turkey, etc) will be saved and cleaned. The cleaned bones will be assembled with wire and glue in a way that does not resemble the original creature but looks like the skeleton of a new species.

November 27th, last day to withdraw from a course

last day to choose credit/no credit option

Week X - 30th – 4th

1. Fleshing out the Creature

The new species will be sculpted in clay using the created skeleton as a guide to give volume and form to the musculature.

December

Week XI – 7th – 11th

1. Bringing the Creature to Life – The Final Project

December 11th, last day of classes,

December 12th - 15th, reading days

December 16th – 22th, Final Exam

January 4nd, all grades due

Textbooks

This course doesn't have any textbook.

Attendance Policy

ATTENDANCE:

In class attendance is required unless COVID-19 restrictions apply.

ATTENDANCE POLICY:

Students studying at The American University of Paris are expected to attend ALL scheduled classes, and in case of absence, should contact their professors to explain the situation. It is the student's responsibility to be aware of any specific attendance policy that a faculty member might have set in the course syllabus. The French Department, for example, has its own attendance policy, and students are responsible for compliance. Academic Affairs will excuse an absence for students' participation in study trips related to their courses.

Covid-19 temporary amendments:

Students studying at The American University of Paris are still expected to attend ALL scheduled classes. Due to the Covid-19 pandemic, students will have the option of attending classes remotely when special circumstances apply. For example when students are placed under quarantine by the French authorities or by their doctor, or when students present

symptoms of Covid-19 and are directed, by their doctor or the AUP Health Office, to remain home. It is still the student's responsibility to be aware of any specific attendance policy that their professor might have set in the course syllabus. In particular, Students attending remotely from distant Time Zones should check with their professors about the specific attendance policy for remote learners.

Attendance at all exams is mandatory.

In all cases of missed course meetings, the responsibility for communication with the professor, and for arranging to make up missed work, rests solely with the student.

Whether an absence is excused or not is ALWAYS up to the discretion of the professor or the department. Unexcused absences can result in a low or failing participation grade. In the case of excessive absences, it is up to the professor or the department to decide if the student will receive an "F" for the course. An instructor may also recommend that a student withdraw, if absences have made it impossible to continue in the course at a satisfactory level.

Students must be mindful of this policy when making their travel arrangements, and *especially during the Drop/Add and Exam Periods*.

ENGLISH LANGUAGE PROFICIENCY STATEMENT: As an Anglophone university, The American University of Paris is strongly committed to effective English language mastery at the undergraduate level. Most courses require scholarly research and formal written and oral presentations in English, and AUP students are expected to strive to achieve excellence in these domains as part of their course work. To that end, professors include English proficiency among the criteria in student evaluation, often referring students to the university Writing Lab where they may obtain help on specific academic assignments. Proficiency in English is monitored at various points throughout the student's academic career, most notably during the admissions and advising processes, while the student is completing general

Grading Policy

GRADING:

Assessment Components:

(30%) Homework

(20%) Laboratory work

(10%) Mid-term review

(20%) Final review

(20%) Final Project

Grade Scales:

[A+, A, A-] = [95, 93, 90] %

[B+, B, B-] = [86, 82, 78] %

[C+, C, C-] = [72, 63-71, 57-62] %

[D+, D, D-] = [56, 52, 48] %

[F] = [47 or below] %

Other
