

## Ohio University

College of Fine Arts

School of Art + Design

### Interior Architecture

## Introduction to Design Process and Programming

ART 2650 Fall Semester, 2020 Online

Professor: Matthew Ziff

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### Assignment #2: Bio Mimicry

**Due: Wednesday, September 23, 10:00: Send to me as e-mail pdf attachment**

**Please title your attached pdf with: Your Name, Bio-Mimicry Project, ART 2650**

This assignment is about exploring a particular kind of design process. The process is called 'transformation' and it is a classical way that designers of all types come up with 'new' ideas for the design of spaces, products, and graphics. Your work on this project should be considered as an important piece in your growing portfolio of visual and design work. The sheets of drawings that you produce for this project should be thought of as absolutely needing to be:

- Well drawn
- Well organized
- Thoughtful in written content
- Elegant in visual presentation

1. Select (I would prefer that you 'find' rather than purchase) **two (2) different natural objects**, such as a leaf, a tree branch, a seed pod, a vine, a rock, a rock crystal, a flower, a fruit, a vegetable, a sea shell, a deer antler, et cetera.

2. Analyze the size and shape of these objects, the physical materiality of this object, and the 'system integration' aspects of these objects (how do they work, connect to, integrate with the other parts of the plant).

3. Draw, (using any drawing technique you like: hand drawing, drawing with hand drafting tools, digital/computer drawing, brush painting) in **plan, vertical section, one elevation, and one perspective** what your selected natural objects look like.

- The drawings of both of these objects are each to be done on one (separate) sheet of *drawing quality paper, minimum size 11" x 14"* (may be taken from a large pad of art quality paper, or individual sheet of quality paper (NOT standard photo copy machine paper) using graphite pencils, OR ink (NOT Sharpie or similar markers) OR watercolor paint, OR colored pencils.
- At the top of the sheet there is to be a project title: "Bio Mimicry Study".
- Print (block capital letters only) your name on the back of the sheet.

4. After studying these objects, think about what kind of man-made, designed, object could be made that would be based upon, transformed from, some, or all of the characteristics and functionalities of ONE of these natural objects. Think about transforming the size, the scale, of the object you select. A leaf, for example, could be imagined to become an entire building.

5. Write **several precise, descriptive sentences** that explain your idea. Explain what the designed object would be (a table, a chair, a watch, a door, a fan, a house, an office, et cetera) and explain how it would work, what size it would be, and how it would be made. Explain how the natural object directed you toward this idea and how the designed object would reflect the natural object. (this could be in physical form, material, color, or system functionality). These written statements should be on their own sheet of paper: use the same kind of paper for the entire set; drawings, written statements, and any other analytical content you might wish to include.

**The written statements are to be typed and printed out.**

6. Draw, (using any drawing technique you like: hand drawing, drawing with hand drafting tools, digital/computer drawing, brush painting) in **plan, vertical section, one elevation, and one perspective** what your designed object looks like. Include a human figure for scale reference. Include notes that point to specific items, such as materials, functional parts, et cetera.

The drawings are to be done on one sheet of *drawing quality paper, minimum size 11" x 14"* (may be taken from a large pad of art quality paper, or individual sheet of quality paper (NOT standard photo copy machine paper) using graphite pencils, OR ink (NOT Sharpie or similar markers) OR watercolor paint, OR colored pencils.

At the top of each sheet there is to be a project title: "Bio Mimicry Study". Print (capital block letters only) your name on the back of each sheet.

**We will work on this project during class time on Monday, September 21. I will be online, via Teams, to answer questions or assist in your project development during Monday's class session.**















