

# Fab I Can Statements

## DESIGN

<b>Design.1</b>	I can be responsible for various activities throughout a design process within a group with instructor guidance.
<b>Design.2</b>	I can participate in design reviews with prepared presentation materials as well as give and receive feedback from peers.
<b>Design.3</b>	I can initiate design processes to generate multiple solutions to problems I have framed for multiple stakeholders.

## COMPUTER PROGRAMMING

<b>Programming.1</b>	I understand the basic structure of a simple program and can modify values, variables, or other parameters to alter its output, function, or behavior.
<b>Programming.2</b>	I can create a program with more than one instruction.
<b>Programming.3</b>	I can create a program with multiple instructions and branching elements as well as reading / controlling inputs and outputs on a microcontroller board.

## ELECTRONICS

<b>Electronics.1</b>	I can follow instructions to build a simple electrical circuit using conductive material basic components and power.
<b>Electronics.2</b>	I can follow a schematic diagram and create a circuit including a microcontroller with electronic components.
<b>Electronics.3</b>	I can create my own schematic diagrams and use them to build electronic circuits including microcontrollers.

## MODELING

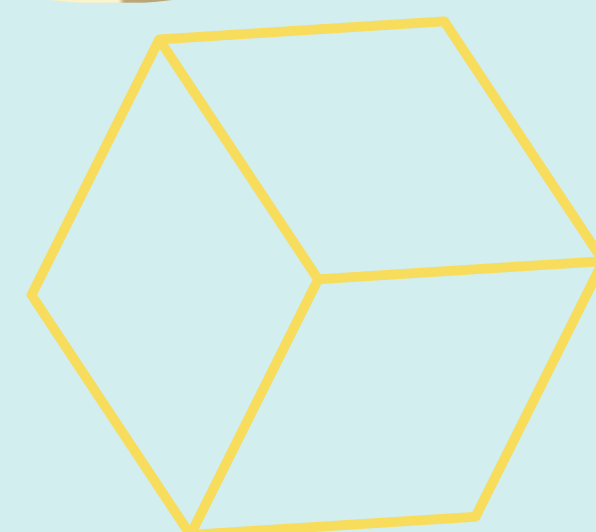
<b>Modeling.1</b>	I can arrange and manipulate simple geometric elements, 2D shapes, and 3D solids using a variety of technologies.
<b>Modeling.2</b>	I can construct compound shapes and multi-part components ready for physical production using multiple representations.
<b>Modeling.3</b>	I can define complex systems with parametric relational modeling using generative, algorithmic, or function representation.

## FABRICATION

<b>Fabrication.1</b>	I can follow instructor guided steps that link a software to a machine to produce a simple physical artifact.
<b>Fabrication.2</b>	I can develop workflows across four or more of the following: modeling software, programming environments, fabrication machines, electronic components, material choices, or assembly operations.
<b>Fabrication.3</b>	I can make my own applications, machines, or electronic components to solve new problems and to grow my Fab Lab's capacity.

## SAFETY

<b>Safety.1</b>	I can safely conduct myself in a Fab Lab and observe operations under instructor guidance.
<b>Safety.2</b>	I can operate equipment in a Fab Lab following safety protocols.
<b>Safety.3</b>	I can supervise others in a Fab Lab and ensure safety protocols are being followed.



Provide feedback on this tool here:

