# Makerspace 490 Workshop

## ASSIGNMENT

Workshop Design and Implementation for general patrons

## CONCEPT

Backwards Design

## DESCRIPTION

You will be assigned to one of several groups. As a group, you will design and implement a workshop in the Fab Lab for adults and families that will be visiting open hours on a day TBD. Here are the parameters for your workshop:

* The workshop should be 1.5 to 2 hours long.
* Each group must teach one of the tools/technologies explored in this course (e.g. electronic cutters, laser, 3D scanning/printing, digital embroidery, Arduino/small electronics).
* Each group’s choice of tool/technology must be different from other groups.
* All participants must take something home that they made at the end of the workshop – unless it’s a 3D print held for pickup.
* Holiday themes are encouraged, but not required.
* Each **group** will create a lesson plan and each **individual** will create either a new or refined supporting tutorial.

To design your workshop, you will use an approach to lesson planning called *backwards design.* Backwards design features a three-step process:

1. Identify what you want participants to know and/or be able to do by the end of the workshop, as well as any other related outcomes (feelings of accomplishment, new friends, etc).
2. Determine acceptable evidence for that learning.
3. Plan learning experiences for general patrons, including a timeline for the workshop and a description of different types of instruction.

After you have developed your plan as a group, each group will test their workshop on the other group in class. Then each group will refine its plan before teaching their workshop to general patrons in the Fab Lab.

## SCHEDULE

November 17: Group formation and scheduling. Open Lab

November 30: Group up. In class, you will brainstorm ideas and begin to design your workshop. By the end of class you should have an idea for your workshop approved by the instructor.

December 1: In class, you will make whatever it is that you expect participants to make and then you will refine your activities. Make your Google Doc lesson plan simultaneously.

December 7/8: Test your workshop on other group, refine lesson plan with feedback from the test.