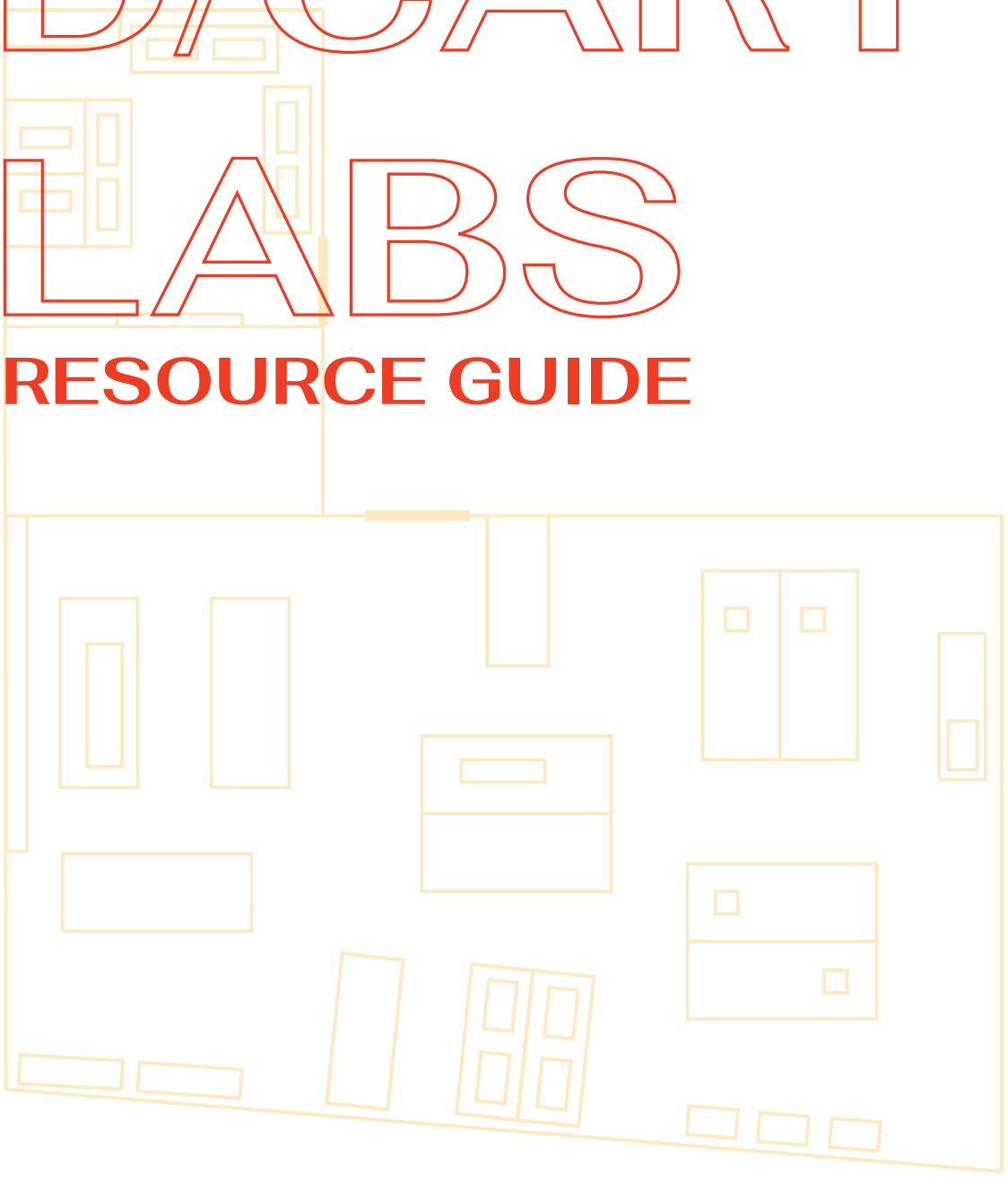
D/CART LABS

RESOURCE GUIDE



DESIGN AND RESEARCH

Alexandria Alcancia-Shaw
alcanciashaw.com

FUNDING

Concordia Faculty of Fine Arts
Facilities and Services,
Rovers Project

SPECIAL THANKS

Breanna Shanahan
Sabine Rosenberg

TYPOGRAPHY

Karla Regular
Fahkwang Bold

USEFUL LINKS

Computation Lab
clab.concordia.ca

Sensor Lab
slab.concordia.ca

Visual Communication Lab
vclab.concordia.ca

D/CART LABS Website
alcanciashaw.com/dcartlabs

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NOTE FROM THE EDITOR

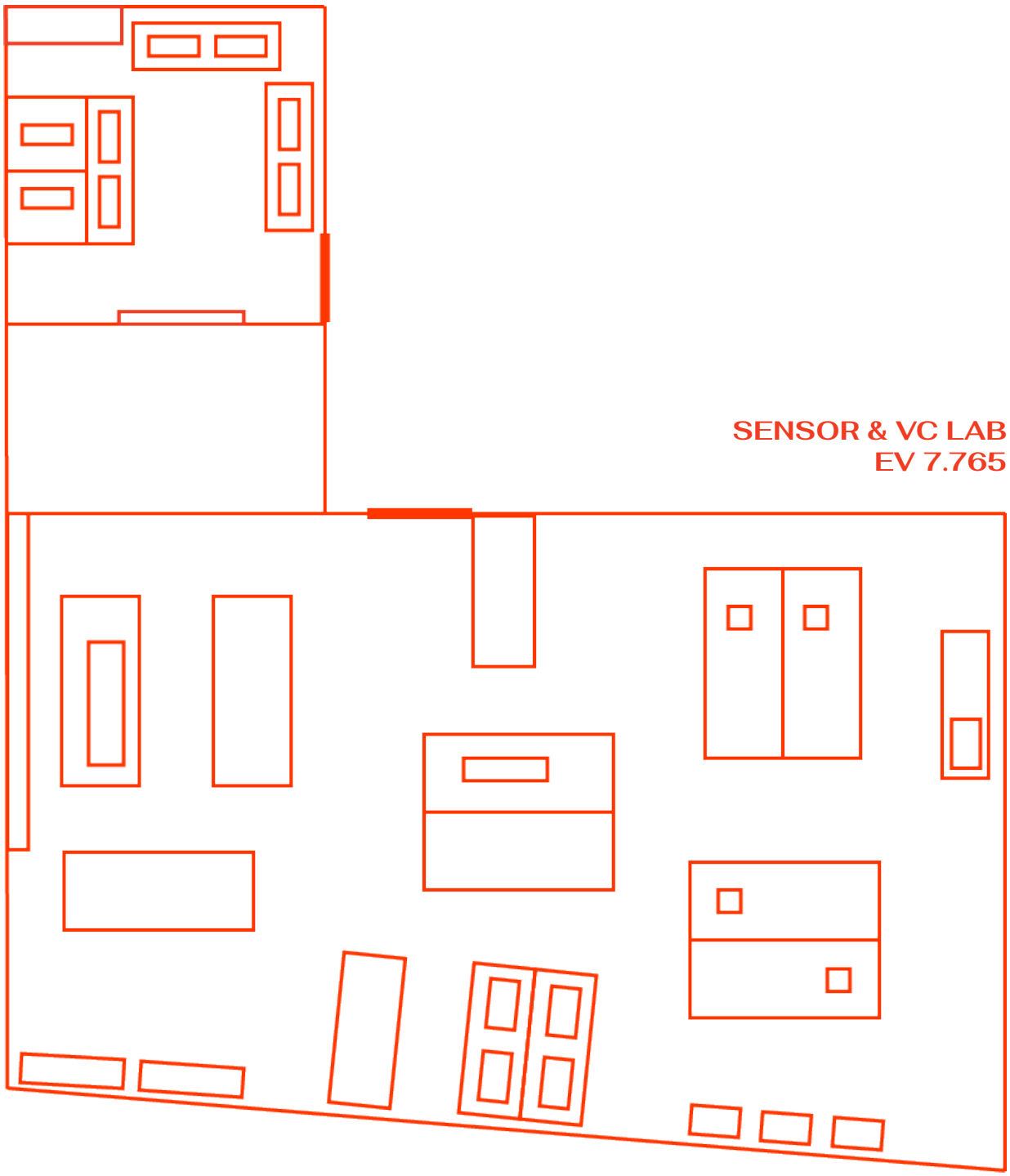
This guide is meant to showcase all of the resources available to share or borrow to all Computation Arts and Design students (D/CART). It focuses specifically on the resources available from the three D/CART Labs: the Computation Lab, the Sensor Lab and the Visual Communication Lab.

The purpose of this guide is to increase visibility of the various equipments available. This guide was especially designed to highlight the invisible or less visible elements of these spaces, so that students can learn what is at their disposal and make use of it.

This book can be taken apart as needed, the pages come off the binder ring. This guide will remain accessible to all students even when the labs are closed to get an idea of how the labs work and what is available, without needing to consult a website.

COMPUTATION LAB
EV 7.760

SENSOR & VC LAB
EV 7.765



BEFORE VISITING

Know the Lab Policies

It's important to be aware that each lab has it's own policies. In general, all labs require that you: 1. Pay the yearly departmental fee ($ 50) 2. Attend lab orientation 3. Do not consume any food or beverages. More details on policies for each lab may be found online.

Make an Appointment

During peak times, including prior to midterms and finals, the Lab Coordinators get busy and cannot always help people at the last minute with drop-in questions. It is highly recommended to email them to reserve a spot or to get help via e-mail.

DURING VISIT

Sustainable Practices

It is highly encouraged to keep sustainable habits in mind in the lab. There are often discarded materials in the lab that can be repurposed, and many tools can be borrowed for a short period of time without having to buy new ones. Materials may also be found free of charge and donated to CUCCR, www.cuccr.ca, the Concordia Centre for Creative Reuse.

Clean Up

It is important to keep your station clean after each project to help the next student who wants to share the space. Temporary storage is also available in this room for class projects.

After Hours

Occasionally, the lab will allow students to stay after hours. Please consult the Lab Coordinators.

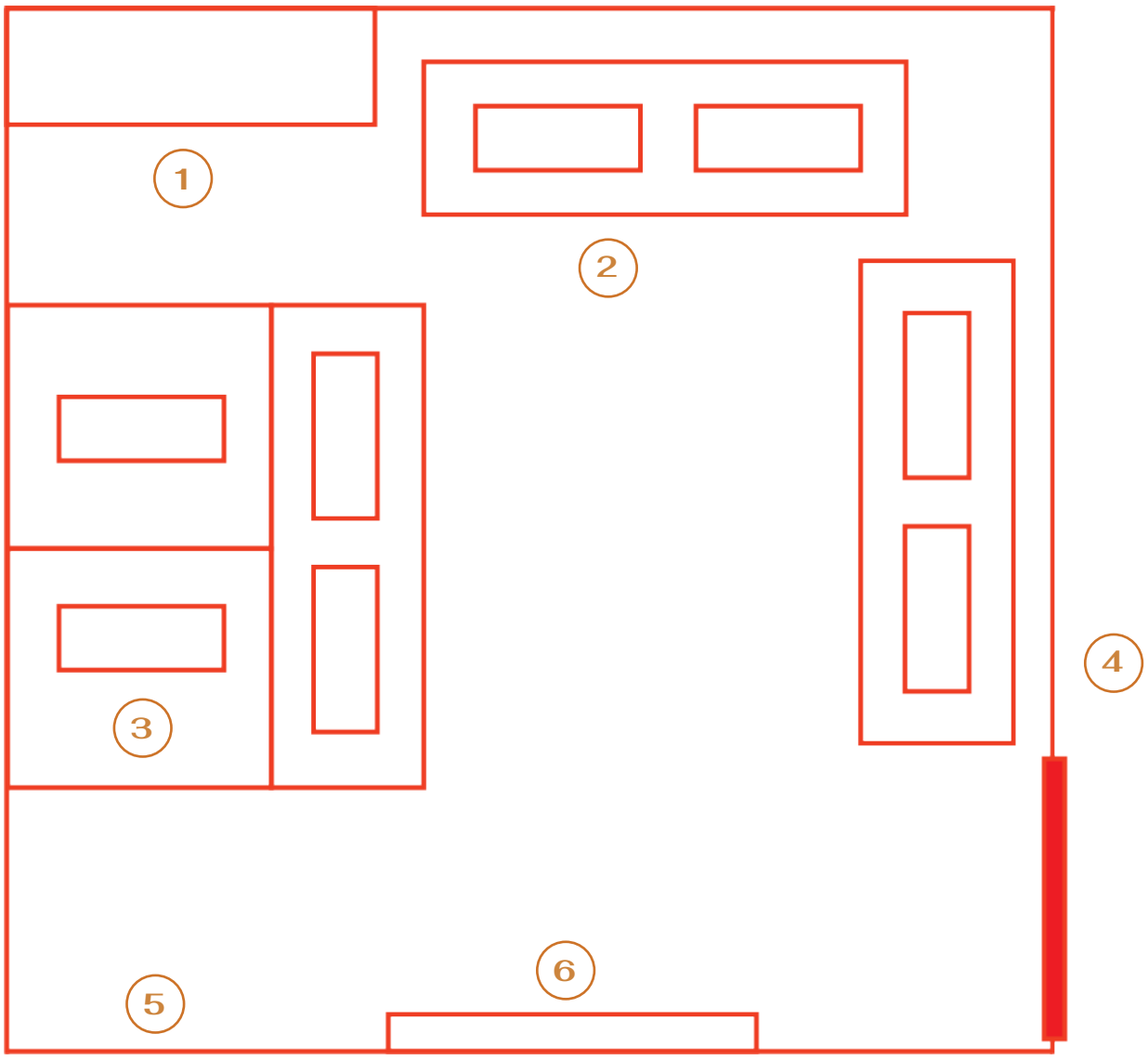
AFTER VISIT

Share Your Knowledge

After learning how to use new tools and techniques in the lab, it's highly encouraged to share your findings with your fellow students. Sharing techniques can make us all better artists and designers!

Improve Your Knowledge

Training and workshops are available throughout the semester as available by appointment or through sign up sheets depending on the lab. Certain workshops are available during certain semesters, so be sure to inquire if you are looking for something specific.



1. Bookshelf
2. Lab Coordinator
3. Workspaces
4. Workshop Signup
5. Equipment
6. Whiteboard

ABOUT THE LAB

The computation lab working space for eight students, with eight iMacs configured with the latest software. The lab is designed mostly to help Design and Computation Arts students figure out any programming problems. This includes issues with game design, web design and interactive installation design. The lab coordinator often has more programming knowledge than some professors, and is therefore an indespensible shared resource.

1 Bookshelf

The bookshelf contains various books about software development and design. They may be borrowed upon request.

2 Lab Coordinator

A lab coordinator is available several days a week to help with any programming questions. Students are able to work in the labs and ask questions when they run into issues.

3 Workspaces

There are eight iMac computers available to work on. There is extra desk space for people to bring their own laptops.

4 Workshop Signup

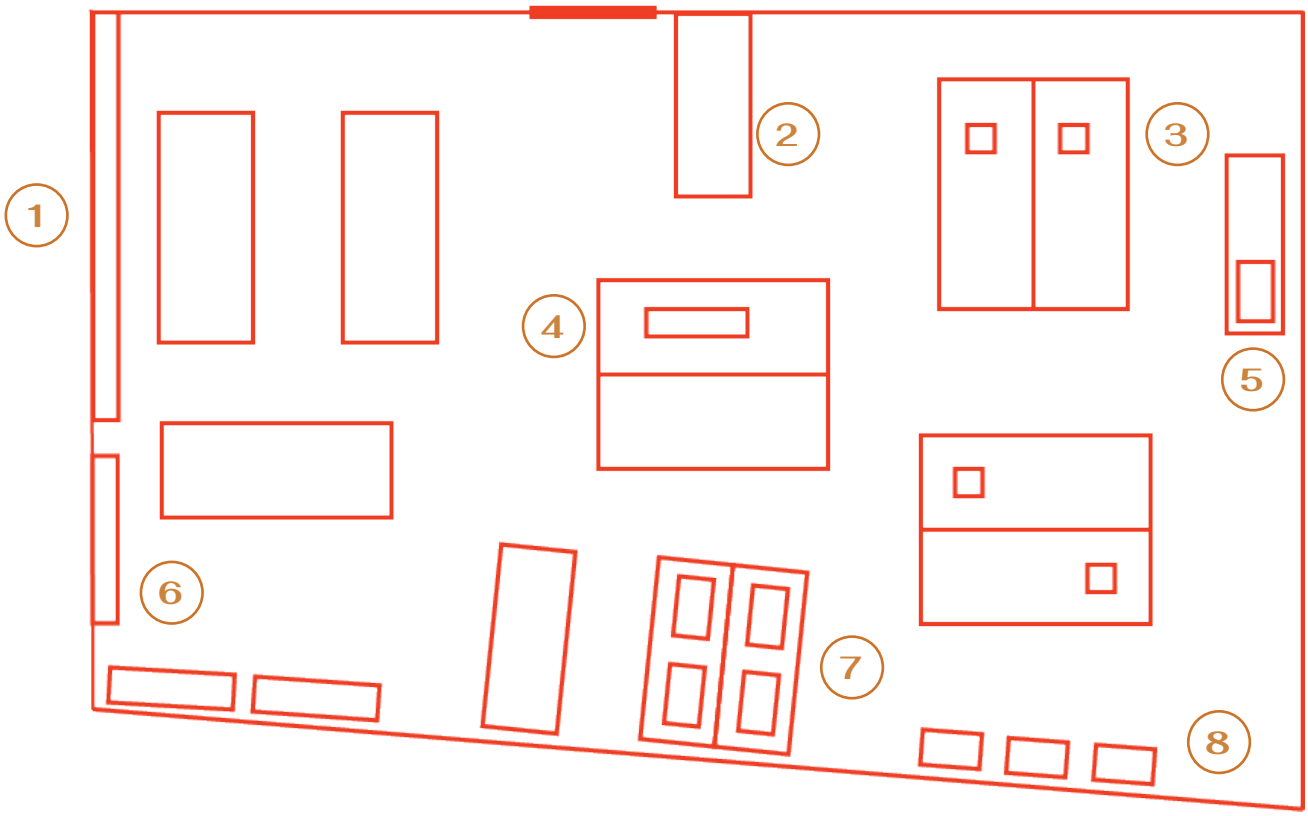
Workshops are posted outside the lab at the beginning of the semester and take place throughout. Open to all but priority goes to fine arts students.

5 Equipment

Various hardware is available for rent: Microsoft Kinects, PQ Labs 46" touchscreen, iPads and more can be rented for various projects, often available with enough notice.

6 Whiteboard

Useful for working through problems. The coordinator can also help with certain computer science problems that require more advanced programming knowledge.



1. Cupboard
2. Lab Coordinator
3. Workspaces
4. Sewing Accessories
5. CNC Machine
6. Bookshelf
7. Sewing Machines
8. Sergers

ABOUT THE LAB

The sensor lab has working space for twelve students. It contains a lab inside a lab: the soft surfaces lab contains machines specialized for working with textiles. The Lab coordinator is available for troubleshooting computer hardware issues, including but not limited to Arduino and other micro controllers and Input/Output devices (such as sensors and motors).

1 Cupboard

The cupboard contains many items that are available to borrow that are unlisted: it contains a mini lending library of various Arduinos, a Raspberry Pi and other small sensors and motors for projects. Must see availablity with coordinator.

2 Lab Coordinator

Has valuable knowledge about the design and implementation of physical computing and other interactive installation style projects.

3 Workspaces

Enough working room for twelve students, with about eight large voltage power supplies, soldering irons and other hardware tools available.

4 Sewing Accessories

Many sewing and soft surface tools are available for rent, including irons and steamers, as well as a basket of fabric scraps to create with.

5 CNC Machine

Available for milling very small projects, a good alternative to working with the larger CNC when it is unavailable or only a small/quick project.

6 Bookshelf

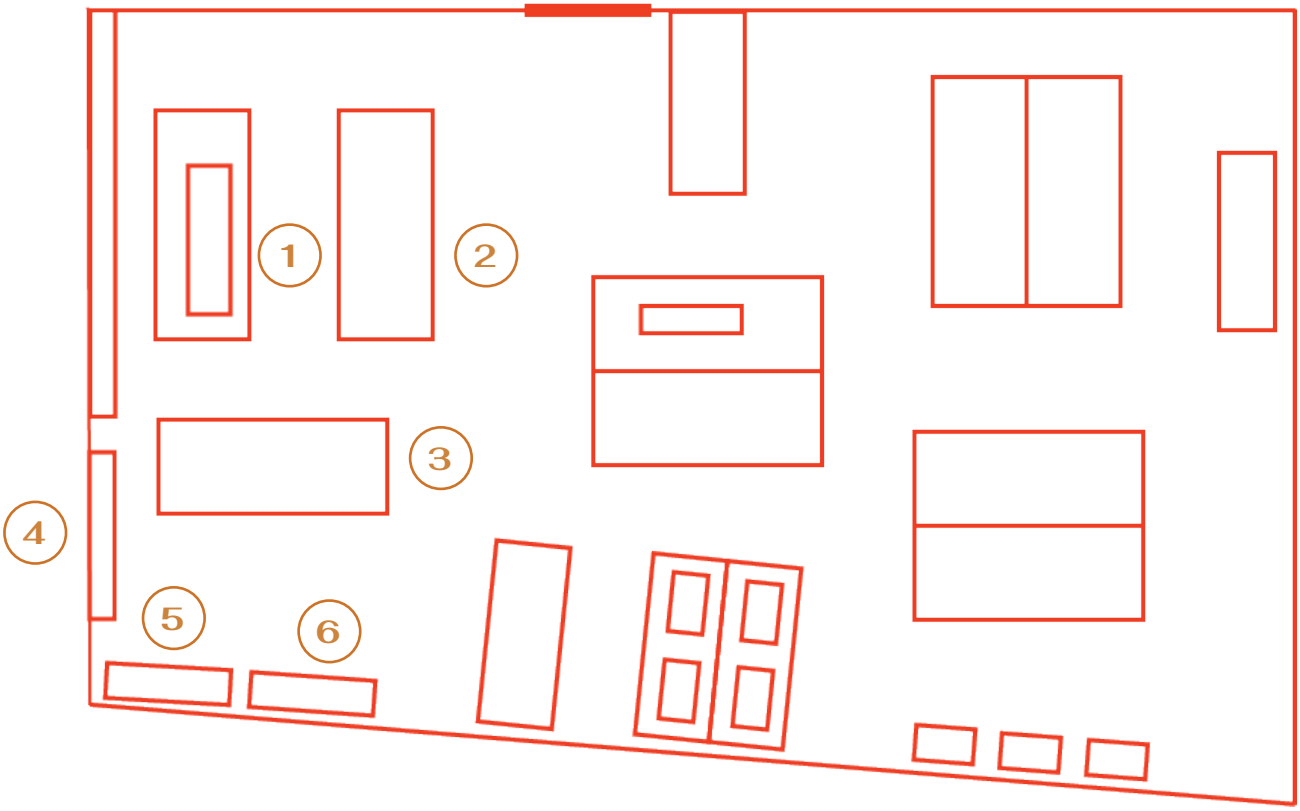
Contains many books about hardware and design, ranging from introductory books to more complex textbooks.

7 Sewing Machines

High quality Swiss designed sewing machines available. Good for up to medium weight textile projects (think thick cotton).

8 Sergers

High quality Swiss designed sergers available. Good for finishing edges of various sewing projects to make them more durable.



1. Paper Trimmer
2. Workspaces
3. Lab Coordinator
4. Bookshelf
5. Corner Trimmer
6. Vinyl Cutter

ABOUT THE LAB

The VC lab has working space for eight students. It focuses primarily on print work, however is often used for many other 3D projects. Many specialized tools can only be found here in the university, such as various book binding tools and machines. The Lab is accessible when the Sensor Lab is open, however some equipment is limited to only working with the VC Lab Coordinator. Book and print based projects are especially popular in this lab.

1 Paper Trimmer

Various paper trimmers are available in the lab, including an oversized paper trimmer over four feet long. It also contains smaller trimmers, as well as utility knives.

2 Workspaces

The tables are quite large and over six feet long to facilitate even the largest scale print projects.

3 Lab Coordinator

The lab coordinator can organize and use various equipment that is unavailable without their help, including the vinyl cutter.

4 Bookshelf

The bookshelf contains many loanable resources, such as book design books, reference books, general design books, and other forms of visual design. Most notably contains some examples of past student work so students can draw inspiration from their fellow peers.

5 Corner Trimmer

Specialized corner trimmers, or a corner rounding tool, can be used to make the corners of your print project rounded. May be used on a variety of different papers with different finishes.

6 Vinyl Cutter

Connected to an iMac Computer, this vinyl cutter will cut various vector shapes out of a sticky paper that can then be applied to a variety of surfaces. Useful for making labels or wayfinding projects.

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alexandria alcancia shaw