COLLEGE OF THE CANYONS

MAKER SPACE

Guiding Students to Success through integrated and Contextualized Learning

Strengthening Student Success
Making our Colleges Student-Ready
October 3-5, 2018

CALIFORNIA COMMUNITY COLLEGES
ccc maker
explore. create. connect

SOUTH CENTRAL SOUTHERN REGIONAL CONSORIUM
Who are we and why are we here?

- Us...
- History of the College of the Canyons Makerspace
- Challenges, Opportunities and how we move forward
- Growing the space
- Makerspace Festival
- How are we making the future?
How did it start?

- Portland Makerspace

- Sierra College Hacker Lab

- Pasadena City College Fab Lab
Here we go!
Day 1 - Inventory

- 1500 sqft
- 3 x 3D Printers
- 10 Raspberry Pi Kits
- 10 Arduino Kits
- Hand Tools
- 4 PCs and 3 Laptops
Now what?

- Student Surveys
- Attendances
- Staffing
- Outreach
- Faculty
**Traction**

- Tchotchkes
Phase 2

- New Tools
- New Staff
- New Ideas
Make THEM build it and they will come

Introducing Makerspace workshops!

OPEN TO STUDENTS, FACULTY & STAFF!
Whether you're a Makerspace beginner or one of our regulars, come by and learn how to design, create and build your own project of the projects pictured below (your choice!). Each workshop is限 to 10 faculty/staff and 10 student participants, so please sign up ASAP!

Workshops will be held on:
- October 13th
- October 27th
- November 10th
- November 17th
from 11am-12pm

Students sign up at Makerspace, located just off the Cafeteria. Faculty/Staff sign up through Professional Development.

Sample Ornaments:

GLOBE PROJECT
FLOWER PROJECT

MakerSpace Ornament Workshop!
Customize your own holiday ornament at the Valencia Makerspace!
Students sign up at Makerspace, located off the Cafeteria. Faculty/Staff sign up through Professional Development.

Workshops will be held on:
December 1st, 8th, & 11th
from 11:30-12:30p.m.

For more information, please call Makerspace:
661-352-3601
College of the Canyons Makerspace awarded $311,432 grant
Day 730 - Inventory

- 2700 sqft – 2 Locations
- 10 x 3D Printers
- 3 Laser Cutters
- 10 PCs – 4 Design Stations
- CNC Machine
- Wood Shop
- Staff – Lead Maker, Engineers, Artist, Manufacturing, Electronics
- Hours – 44 hours per week – Public Access
Building the MakerSpace Community

Eco-zomBEE robot challenge
Makerspace Festival

Open House
Thursday | May 10
10am - 1pm
Outreach Events
Engagement *enhances* Student Success

Introducing students to the MakerSpace environment
Student coursework
Student coursework
Student coursework
Student coursework
Student coursework

- Helping students visualize MakerSpace as a diverse problem-solving & creativity environment (...not just a place to make cool toys!)
Faculty Involvement

- Introducing diverse disciplines to the MakerSpace
Building the future

- NASA HASP & RockSat-X
Makerspace & Astronomy Physics Club Payload Program (MAPPP)

- Started with a group of students in my lab (2016)
- Then Makerspace opened
  - new tools!
  - more hours for students to work
- Growth of the NASA payload program possible because of Makerspace
  - half of our NASA HASP payload was 3D printed this year!
NASA High Altitude Student Platform

- Design Thinking
- Advanced manufacturing
- Soldering
- Flight Computer Coding
- Managing flight data
- Interdisciplinary Teamwork!
- 3 Years of payloads
- 8 Internships (JPL, Cal Tech, & NASA)
Form and Function
Titles don’t matter... that’s what makes the TEAM So Strong!

- MakerSpace is an INTERGENERATIONAL model of learning that encourages 21st century models of thinking and supports both novices and mentors alike.
Questions?  

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  MakerSpace Faculty Coordinator - Lead  

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  Professor and Dept. Chair - Architecture and Interior Design  
  MakerSpace Faculty Coordinator  

https://goo.gl/rBjVVP