

Summer Program: Future engineers

Week Of: June 18th 2018

Staff: Jeff Jantz, Uday Praveen Tiruvalluri, Falak Khan, Gene Hall.

Summer Program Overview Planning Tool: On Campus Programs

	Monday Date: 18	Tuesday Date: 19	Wednesday Date: 20	Thursday Date: 21
Theme of the day:	3D Printing, Intro to TinkerCAD	Electricity	Simple Machines	Transportation & Autonomous vehicles
9:00am	Ice breaker/ T-shirts: Where the wind blows Course Overview: Vocab: Orthographic view, Perspective view, Isometric, C.A.D., C.A.M.	Icebreaker 2 truths & a lie Vocab: D.C., Current, Voltage, Circuit, Switch, L.E.D.	Icebreaker: Heads Up Vocab: Levers, Gears, Screw, Pendulum, Wedge, Inclined plane.	Icebreaker: Team Paper Rock Scissors Vocab: Combustion, Torque, Piston, Camshafts, Crankshafts, Autonomous.
9:30am	3D Design projects	Basic circuit activity	Research and prepare simple machines	How an Engine works
10:30am	3D Design projects	Battery lab project	Student presentations	Rubber band cars with Kenex
11:30am	Lunch	Lunch	Lunch	Lunch
12:30pm	Lab tour: Manufacturing building	Lab tour: electronics lab	Lab tour: The Machine Shop	Lab tour: Engines Lab
1:30pm	Continue 3Ddesign projects and Printing	LED paper circuit	Mini Rube Goldberg	Drone Maze Project
2:30pm	3D Printing & finalize designs Vocab review:	LED paper circuit Vocab review:	Mini Rube Goldberg Vocab review:	Drone Maze Project Vocab review:
3PM	Dismiss	Dismiss	Dismiss	Dismiss

Notes: Fieldtrips are all on campus lab tours.
We will continue to 3d print students projects throughout the week.

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Summer Program: Cardboard Furniture

Week Of: June 18

C2P Staff: Rhonda Holstein & Geoffrey R. Jones

Engineering Staff: Akshay Patil

Summer Program Overview Planning Tool: On Campus Programs

	Monday Date:	Tuesday Date:	Wednesday Date:	Thursday Date:	Friday Date:
9AM	Introductions/Ice Breaker Identifying Furniture parts, materials, dimensions	Ice Breaker Work on furniture design-sketch books	Ice Breaker Video Work on projects	Ice Breaker Finishing touches on furniture projects	Have a good weekend students!
	Video and Power Point	Measurements, tolerant and LxWxH			
11:30 AM-12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	N/A LUNCH
	Discussion-Concepts & Designs	Video Work on projects	Science Center Field Trip (?)	Exhibition/Presentation of Cardboard Furniture Project	
	Tools needed				
	Sketch books				
3PM	Bus	Bus	Bus	Bus	N/A Bus

Notes:

Summer Program: _____

Week Of: _____

C2P Staff: _____

Engineering Staff: _____

Summer Program Overview Planning Tool: On Campus Programs

	Monday Date:	Tuesday Date:	Wednesday Date:	Thursday Date:	Friday Date:
9AM					
11:30 AM-12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
3PM	Bus	Bus	Bus	Bus	Bus

Notes:

Summer Program: Construction Technology

Week Of: 7/16/18-7/19/18

C2P Staff: Jeff Jantz, Gene Hall and Rhonda Holstein

Engineering Staff: Shaghayegh Yaghmaie and Joshua Emakhu

Summer Program Overview Planning Tool: On Campus Programs

	Monday Date: 7/16	Tuesday Date: 7/17	Wednesday Date: 7/18	Thursday Date: 7/19	Friday Date:
9AM	Icebreaker Intro Construc. Tech. (What is Construct. Tech?) Safety: (Can you name some important safety equipment used on construction sites) Activity: (Structure in a Bag) Safety in classroom	Icebreaker What is architecture and design? Students use REVIT to develop/create floor plans How is math used when creating the scale of the design? Drawing your floor plan: (How is drawing the floor plan different from using REVIT?)	Ice Breaker We have the room design, now what? The fixtures and furniture of course! Using REVIT students will add fixtures and furniture to their previously created designs. 3D Print Furniture examples to incorporate into students designs	Ice Breaker Discuss safety equip. Using various materials, cardboard, glue, markers, scissors, box cutters, duct tape, glue gun and other collage materials, students construct a 3D model using the information learned in the previous days of class.	No C2 Pipeline Camp
	Transition to Lunch	Transition to Lunch	Transition to Lunch	Transition to Lunch	
11:30 AM-12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:45PM-2:45PM	Walking Field Trip: (Observing the different types of construction projects on campus	Walking Field Trip: (Observing architecture and design of the new vs. old structures on campus) (Similarities vs differences)	Furniture templates are used to add fixtures and furniture to drawings. Reflection activity: Name some similarities/differences using REVIT vs drawing the designs.	Model construction continued. Reflection activity: Name a career in construction technology.	
	Walking Reflection	Walking Reflection	Clean-up	Clean-up	
	Transition	Transition	Transition		
3:00PM	Bus	Bus	Bus	Bus	Bus

Notes: Icebreakers and Reflections Daily

Summer Program: **Forensic Science – C2P STEM Lab**

Week Of: **July 16-19, 2018**

C2P Staff: **Sandy Friedli, Sonja Beasley-Hall**

Engineering Staff: **N/A**

Summer Program Overview Planning Tool: On Campus Programs

	Monday Date: 7.16.18	Tuesday Date: 7.17.18	Wednesday Date: 7.18.18	Thursday Date: 7.19.18	Friday Date:
9AM	Welcome Lab Safety Ice Breaker	Welcome 9:15 am board bus MSP Forensic Lab 1301 Third Street Detroit, MI, 48226	Welcome Ice breaker	Welcome Ice breaker	
9:30-11:15 am	White powder Chromatography Clean up for lunch	Return for lunch at Tower 11:30 am	Blood Spatter Clean up for lunch	Fingerprinting/SIM Blood	
11:30 AM- 12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:30-2:30 pm	Ballistics	Hair Analysis	Mortuary Science Presentation - 1 -2:30 pm	Crime Scene	
2:45-3:00 pm	Clean up	Clean up	Clean up	Clean up	
3:00PM	Bus	Bus	Bus	Bus	Bus

Notes: 7.17.18 – We will board the bus at Second St. and Warren Ave (next to the WSU Life Science Building) at 9:15 am to go to MSP Forensic Lab. Pick up at MSP at 11:45 am to be dropped off in the circle area where students are dropped off in the morning at 12:00 pm

Summer Program: __ Bio _____

Week Of: June 18-21th _____

C2P Staff: Peter Durham _____

Engineering Staff: Brain Smith/ Eksimar Singh _____

Summer Program Overview Planning Tool: On Campus Programs

	Monday Date:	Tuesday Date:	Wednesday Date:	Thursday Date:	Friday Date:
9AM	Icebreaker Intro Bio Impact Vs the Brain	Icebreaker Introduction to TBI	Ice Breaker Injury motion and prevention	Ice Breaker Black inventors Jeopardy game	
		Egg Drop experiment			
11:30 AM- 12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:45PM- 2:45PM	Field Trip to Bioengineering Center (walking)	Field Trip Harper Hospital Brain Imaging (need a Bus)	Field Trip Apple Baum motion of the body (walking)	Field Trip to Tech Town (walking)	
	Walking Reflection	Bus Reflection	Walking Reflection	Walking Reflection	
3:00PM	Bus	Bus	Bus	Bus	Bus

Notes: Icebreakers and Field Trips Daily