

2013 Schedule

DESIGN IT · BUILD IT Summer Engineering Workshop at Dartmouth

		Mon	Tues	Wed	Thurs	Fri
Week 1: July 29-August 2	9am-noon	Welcome (Dean Helble) Design Thinking All-Day Workshop (Peter Robbie) [Couch Project Lab]	Glider Activity & SolidWorks - design and laser-cut a glider (Vicki May and Jason Downs) [Atrium and M210]	Stations (4 stations with students spending 1.5 hours at each station): Arduino (Chris Levey) [Couch], Solidworks (Annie Saunders) [CAD Lab], Paper Engineering I (Jenn Demers) [M132] Funicular Forms (Vicki May) [Couch]	Introduction to Engineering Problem-Solving (John Collier) [M132 and Couch Project Lab]	Frequency and Vibration Activities: lollipop models, earthquakes, and music (Vicki May) [M132]
	Noon-1pm	Lunch delivered to Thayer	'53 Commons for lunch	Lunch delivered to Thayer	'53 Commons for lunch	Lunch delivered to Thayer
	1pm-4pm	Design Thinking Workshop cont'd (Peter Robbie) [Couch Project Lab]	Machine shop orientation and assembly of line crawlers [Machine Shop]	Stations, cont'd.	Spinning Top Activity and SolidWorks - design a top (Vicki May and Chip Brettell) [M132 and M210]	3D puzzle activity – create a 3D puzzle and 3D print (Vicki May, Annie Saunders, and Pete Fontaine) [M132 and M210]

		Mon	Tues	Wed	Thurs	Fri
Week 2: August 5-9	9am-noon	Advice for applying to college (Adria S. Belin) 9-11am Paper Engineering II (Vicki May) 11am-noon + ping pong carrier [M132]	Solar Power (Jason Stauth) 9-10:30am [M132] Thayer lab tours. 10:30am-noon (3 groups, 30 min at each lab) Alison/Sam Biomed DHE/Large Frame/Nan/	Energy 101 (Rosi Kerr) 9-10am [M132] Heating Plant Tour (10:30am-noon)	Wind Turbines Overview and Blade Design (Vicki May) [M132 and Couch Project Lab]	Robotic Arms and Hydraulic Design (Annie Saunders and Vicki May) [M132] + Slime + Water Quality?
	Noon-1pm	'53 Commons for Lunch	Lunch Catered to Thayer	'53 Commons for Lunch	Lunch catered to Thayer	'53 Commons for Lunch
	1-4pm	Project work time – students work in small groups with a TA to design and build one of the following projects: long board, musical instrument, remote control car, or telescope.	Project work time	Project work time	Project work time	Paper Engineering III (Vicki May) 1-2pm [M132] Set up exhibition and wrap up (Vicki May) 2-3pm [Couch Project Lab] Exhibition of engineering solutions and celebration – 3-4pm [Couch Project Lab]