



UNIVERSITY of WASHINGTON

Summer Youth Programs

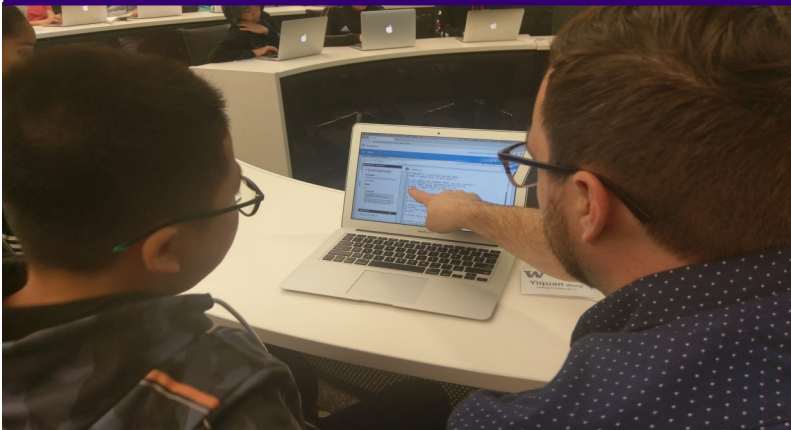
Middle & High School Newsletter

July 15th, 2019



Focus on Fashion & Design

Students have become confident with the basics of using a sewing machine. They've also learned to hand sew and sew buttons- Next week they will be designing and redesigning t-shirts and button down shirts using their duct-tape body forms which they made on Friday.



3D Design and Printing

So far students have learned the basics of 3D modeling using Sketchup. Students designed house interiors/ exteriors, a table, and a fidget spinner. Students learned about preparing an object to print using slicing software and will begin printing their fidget spinners this week.

Intro to Engineering Design & Process

Students were introduced to concepts of static and dynamic, reverse engineering, four stroke combustion engine, basic electricity and different switches system, the fundamentals of sensors and actuators. They participated in a day trip to UW wind tunnel and a career presentation from current UW students and people from industry. **Open house presentation:** 2pm-3pm, Friday 7/19, MEB 243.

Coding in Python

Students have been learning principles such as statements, variables, expressions, conditionals, and booleans. Students practiced by coding games such as mad-libs, rock paper scissors, and personality quizzes using python.

Architectural Studies

The first day of class students analyzed the site on the Henry Art Gallery Plaza and practiced sketching plan, section, and perspective drawings. In groups the class has developed a series of models that, collectively stitched together, become the large site model. The students took on the design challenge of visualizing space and generating unique urban intervention ideas in drawing and model format. **Student presentations:** 10am-12pm, Friday 7/19, Gould Court.





STEM Challenge: Protostars

The Protostars class has been learning about the sun, the phases of the moon, the scale of the solar system and its planets. Students visited the UW planetarium and the Jacobsen Observatory on campus where the students learned about light and telescopes! **Final project mini-conference:** 3pm-4pm, Friday 7/19, PAA A210.

Make It! Innovation Design Lab

Last week, the students were instructed on usage of the laser cutter, 3D printer, Arduino and circuits, as well as engineering tools such as decision matrices and simple machines. They also learned about concept generation and decision matrices, which they used to choose a project idea. **Symposium:** 2pm - 3pm, Friday 7/19, the Mill.



Sharpen Your Writing Skills

Students moved from the mechanics of language to rhetorical devices to college essays and did not break a sweat! Students even annotated poetry without whining. They looked at college admissions essay strategies and plotted their domination of English classes for the coming school year.

Coding in Java

Students have learned to write, compile, and run their own Java programs from the command line. They know how to subclass Turtle and Vic and write new methods to create pictures in the Swing GUI and place CDs. They also learned how to prevent Vic deaths (coding errors).

Film Appreciation

Film students are honing their skills at visual analysis, using feminist textual analysis and the auteur theory to explore Hollywood films from the *Golden Age* through *Hell or High Water*. Mini-lectures, readings, and discussions deepen our understanding of such seminal films as *Some Like It Hot*, *Taxi Driver*, *Vertigo*, and *Psycho*.

Digital Photography

Students had opportunities to photograph several areas of UW, including UW Stadium and Red Square. Students also learned about camera settings, composition, and heard from a professional photo stylist. **Open house:** 2pm, Friday 7/19, Anderson 22. Photos from the class can also be viewed [here](#).

Landscape Architecture

During the first week of class, students learned about how landscape architecture can shape our environment through ecological design, community empowerment, art, and more! They engaged in multiple design explorations, site analysis, sketching, and model-making. The students are now finalizing their own design of a space at UW. **Final presentations:** 1pm - 4pm, Friday 7/19, Community Design Center.