

STEAM Academy summer 2017

july 5 - august 3

9:30 am – 3:30 pm

University of Portland



Entering
grades 8-9

Join Saturday Academy and the University of Portland for a five-week experience in

SCIENCE
TECHNOLOGY
ENGINEERING
ARTS and
MATH



- Attend morning tutoring classes in math and reading to help prepare you for the next school year.
- Participate in afternoon classes in Computer Animation, Solar Car Challenge, Marine Biology, 3D Sculpture: Natural Fibers and Cartography

for further information and to register contact

Heidi Venneri

503-200-5859

heidi@saturdayacademy.org



Class descriptions

3D Sculpture: Natural Fibers

Explore nature through art.

Through this hands-on class, students will use natural materials to make weavings and headdresses. They will create three-dimensional sculptures using foraged fibers. Students will discover the art of sculpture while exploring the topics of nature and sustainability.

Cartography

Where in the world am I?

By investigating maps throughout history, students will assess the types of information that can be presented with a map. They will examine the use of grids in maps and gather data about locations with similar latitudes and longitudes. By working with various units of measurement they will discover the difference between the US Standard and Metric measurement systems. As a final project, they will create a map for a treasure hunt; the clues will be mathematical and they will use a GPS to find the treasure.

Computer Animation

Supercharge your programming skills.

Students will create their own short animated cartoons while experimenting with Adobe® Flash software. They will learn “tricks of the trade” from a professional animator as they apply principles of animation such as staging, timing and squash & stretch to make their character’s movements more.

Marine Biology

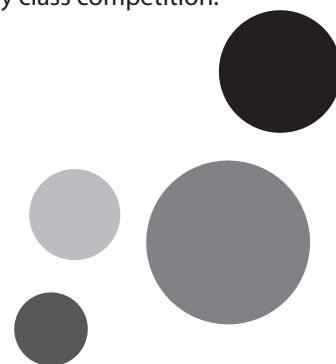
Learn about marine animals inside and out.

Students explore the behavior and biology of the Northwest’s marine animals. They dissect a squid and examine intertidal invertebrates to study their anatomy and physiology. Preserved specimens of animals found in tide pools are examined in class, enabling students to identify them on their next trip to the coast. In-class activities teach them about whales and other marine mammals.

Solar Car Challenge

Capture the power of the sun!

The greatest energy source in our solar system is the catalyst for groundbreaking innovation. Students discover the unique ways in which solar energy is gathered and transferred into fuel. Working in engineering teams, students engage in the hands-on design and implementation of a solar-fueled vehicle. They employ their imaginations to see what it takes to be a true pioneer in solar engineering. The class ends with a friendly class competition.



About Saturday Academy

Saturday Academy offers hands-on, in-depth classes, camps and workshops for students in grades 2-12. Our focus is science, technology, engineering, math, the arts and college prep. Classes are offered throughout the Portland Metro area. Saturday Academy to You (SA2U), our school-based program, brings Saturday Academy classes to your school or organization. Our Apprenticeships in Science & Engineering (ASE) program provides internships for students in grades 10-12 throughout Oregon and southwest Washington.

The University of Portland and Saturday Academy do not discriminate on the basis of race, color, national or ethnic origin, sex, disability, age or any other basis protected by federal, state or local law in its educational programs, admissions policies, scholarships or in employment.

for more information about saturday academy visit

www.saturdayacademy.org