

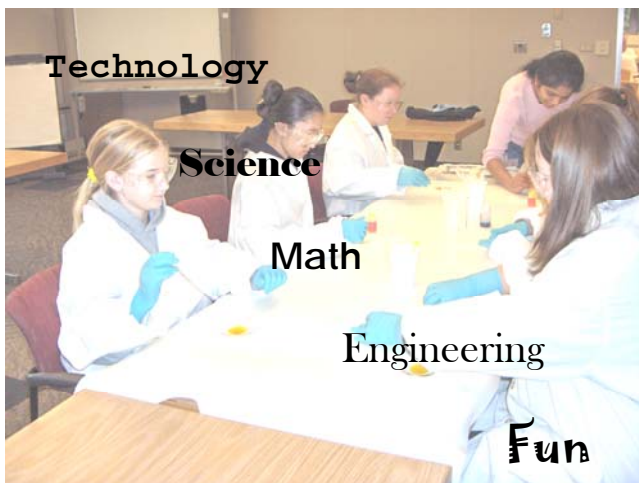
Saturday Academy
Oregon State University
245 Batcheller Hall
Corvallis, OR 97331-2404

Summer 2007



**Middle and
High School**

Summer 2007



Saturday Academy

Phone: 541-737-8139

Fax: 541-737-3124

saturday.academy@oregonstate.edu

<http://academy.engr.oregonstate.edu/>



Please print clearly:

Student Name: _____ M F Grade: _____ School: _____

Parent/Guardian Name 1: _____ Home Phone: _____
 Bus. Phone: _____
 Cell Phone: _____

Parent/Guardian Name 2: _____ Home Phone: _____
 Bus. Phone: _____
 Cell Phone: _____

Address: _____ City, State, Zip: _____

Email Address: _____ Please indicate if you would like to be on Saturday Academy's
 e-mail list: Yes No

Classes Requested:

1. _____
2. _____
3. _____
4. _____

Tuition Assistance:

Please send me an application for financial assistance.

Other Questions:

This is my first Saturday Academy class.

Please add us to your mailing list.

SATURDAY ACADEMY PHOTO RELEASE

You have my permission to use photographs of my child in publications and materials relating to Saturday Academy and on the Saturday Academy web site. You have my permission to identify my child by name in such materials and programs.

I release and hold you harmless from any and all claims which I may at any time have reason by the appearance of materials and programs, the exercise of the rights granted to you in this release, and as a result of any comments concerning the photo made by any other person in connection with your use of the appearance in these materials and programs.

I further agree that an appearance in these materials and programs confer on me no ownership rights whatsoever. I understand and agree that you shall own the copyright and all other rights, title and interest in the materials and programs.

I agree to these conditions and give my consent: _____ **OR** I do not agree to these conditions: _____
 (parent initials here) (parent initials here)

EMERGENCY INFORMATION

Student's Physician: _____ Phone: _____

Health Insurance Company: _____ ID #: _____ Group #: _____

Chronic Illnesses/Allergies (including reactions to medications): _____

Current Medications: _____

Date of last Tetanus Immunization: _____

Person to contact if Saturday Academy is unable to reach you:

Name: _____ Home Phone: _____

Bus. Phone: _____

Relationship to student: _____ Cell Phone: _____

EMERGENCY RELEASE

I hereby give consent to treat _____ in case of medical emergency.
 (name of student)

I understand that all efforts will be made to contact me immediately.

Signature of Parent/Guardian: _____ Date: _____

How to Register by Mail:

1. Select classes.
2. Include tuition or request financial assistance form.
3. Mail your application.
4. **You will receive written instruction 7-10 days prior to class.**
 (Please remember: Students from Albany and Mill City pay one-half tuition fees.)

Send Registration and Payment to:

Saturday Academy
 Oregon State University
 245 Batcheller Hall
 Corvallis, OR 97331-2404

You may also register on our website.

MIDDLE SCHOOL CLASSES and CAMPS at OSU

Harry Potter's Secret Magic for Unfogging Future Challenges

Maggie Niess and Science & Math Education Wizards

Come to a Wizard's school! Learn and explore some Harry Potter magic for passing his classes at Hogwarts! Use a computer to solve those pesky challenges and tricks. This class is an introduction to using computer spreadsheets as a math and science tool - alas, this was Harry Potter's secret! Explore how to graph your experimental data in dynamic spreadsheets that display more colors and shapes. Use this computer application to solve some math and science investigations by creating charts and graphs to display your solutions in creative ways! Don't miss this opportunity to become a wizard! No computer background is required.

When: Mon.-Wed. June 25-27 1-3pm
Who: 6-8th graders **Tuition:** \$40
Where: Education Hall 126

Engineering Camp

Skip Rochefort, Claudia Berman, and OSU Engineering Students

Spend a week on the OSU campus exploring the many careers available in the field of engineering. Hands-on activities each day will feature bioengineering, chemical, civil, environmental, electrical, ocean, industrial manufacturing and mechanical engineering. You'll work in laboratories and classrooms as you design, construct, and test models. Sign up early for this very popular camp!

When: Mon.-Fri. July 23-27 9am-4pm
Who: 6-9th graders **Tuition:** \$175
Where: Rogers Hall 226

LEGO® Robotics for Everyone

Keith Levien and Student Mentors

Create LEGO® Robots! Learn about "smartbricks" and work with the Mindstorms RCX. Beginners start by following instructions to build a simple robot, practice driving it and program it to go around obstacles by "reading" touch sensors. Then use a computer to teach your robot to follow a line, play a favorite song and do a victory dance. Solve robotic challenges with modifications to your hardware and software. No experience is necessary for beginners. If you have some experience with the RCX/Robolab or have taken the Beginners course, you should join the intermediate class. In both cases we start with the basics and move to bigger challenges with help when you really need it most. At the end of the course your robot will have an opportunity to "show off" what it has "learned".

When: Mon.-Thurs. July 30-Aug. 2
Intermediate: 9am - 12noon **Beginners:** 1-4pm
Who: 6-8th graders **Tuition:** \$80
Where: Graf Hall 210

Summer Science Camp

Margie Haak, Claudia Berman

Spend a week immersed in a variety of experiences that span the sciences including physics, chemistry, ecology, biology, and earth science. Hands-on investigations, demonstrations, and experiments will ignite creativity and critical thinking in a journey through what science is all about. Students will have an opportunity to work with science professionals and OSU students in laboratories and in the field.

When: Mon.-Thurs. July 30-Aug. 2 9am-4pm
Who: 5-8th graders **Tuition:** \$175
Where: TBA



Computer Comfort

Gloria Youngblood & Linda McNelly

Become more familiar with computer applications and have fun too! Learn about PowerPoint, Word, and Excel and how they work together. Using images from the internet learn how to add them to these Microsoft Office applications.

When: Mon.-Thurs. Aug. 6-9 1-4pm
Who: 5-8th graders **Tuition:** \$90
Where: Waldo Hall 114

Web Page & Animation

Gloria Youngblood & Linda McNelly

Design your own web page, and have it ready to publish. Use a program to animate objects that can be added to your web page.

When: Mon.-Thurs. Aug. 13-16 1-4pm
Who: 5-8th graders **Tuition:** \$90
Where: Milne Computer Lab 130

Algebra Prep

Jessica Strowbridge

Algebra shouldn't be a seven-letter word you'd rather not hear! Algebra is much easier to understand when you're proficient in general math skills. This course will provide a tune-up for skills pertinent to basic algebra. Try it-you'll be glad you did when the school bell rings. No calculators are allowed.

When: Mon.-Thurs. Aug. 20-23 10-11:30am
Who: 6-8th graders **Tuition:** \$50
Where: TBA

FOR HIGH SCHOOL STUDENTS at OSU

Calculus Prep - Jessica Strowbridge

Calculus isn't as scary as its made out to be. A solid background in algebra, geometry, and trigonometry can make calculus a lot easier. This course will provide a tune-up for skills pertinent to calculus. We will look at algebraic techniques like composing and decomposing functions and partial fraction decomposition. We will practice calculating areas and volumes of shapes and talk about how we can handle areas and volumes of oddly shaped figures. We will also look at writing trigonometric functions in forms that are easier to work with. The course will conclude with a preview of calculus that should help to debunk the myth that calculus is hard to understand.

Pre-requisites: algebra, familiarity with trigonometry and geometry.

When: Mon.-Thurs Aug. 20 -23 1:00 - 2:30p.m.

Who: 9-12th graders / first-year college

Tuition: \$50 **Where:** TBA

Summer Experience in Science and Engineering for Youth (SESEY) Dr. Skip Rochefort

Offered through OSU's Engineering Department and primarily for high school girls and ethnic minorities traditionally under-represented in science and engineering, and for science, math and physics teachers interested in developing curricular materials to promote engineering activities in their classrooms. Students come to campus for a one-week residential summer camp and are paired with an engineering-oriented research group of faculty and current students who serve as mentors throughout the week.

When: Mon-Fri. July 16-20

Who: 9-12th graders

Tuition: \$150 (includes room, board, field trips, materials instruction) Tuition assistance/scholarships available.

Application: deadline June 8 (notification by June 16)

For information and the application:

www.che.oregonstate.edu/SESEY or
skip.rochefort@oregonstate.edu.

Apprenticeships in Science & Engineering (ASE)

The ASE Program offers high school sophomores through seniors (going into grades 10-12) a chance to work with an engineer or scientist for eight weeks during the summer. Students also attend workshops, seminars, lectures, and leadership classes at the Mid-Summer Conference at Oregon State University on July 13 and 14. At a symposium in August 2007 students will present their work in a poster session and during oral presentations at Portland State University. The public is invited. For more information, call the ASE office at (503) 725-2340 . Visit: www.saturdayacademy.org/ase/



Saturday Academy, hosted by Oregon State University since 1986, is a non-profit, educational program; a cooperative effort among the business, professional, and education communities to provide intensive, science and technology study opportunities for middle and high school youth. The program's hands-on experiences are designed to encourage students to maintain an interest in and pursue careers in math and science. Experiential instruction encourages full participation for all types of learners. Scholarships are available if needed, so no student is turned away because of finances.

Donations are always welcomed and needed. Donations and over 100 volunteers per year allow the programs to continue and keeps class sizes small and costs affordable.

Mail donations to:

Saturday Academy OSU

245 Batcheller Hall

Corvallis, OR 97331-2404

Or call: 541-737-1822

Contact Saturday Academy:

Phone: 541-737-8139

Fax: 541-737-3124

Email:

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