OSU Precollege Programs

Summer Camps & Programs
2015 • Grades K-12

Academic Programs...providing a pathway to higher education.
Youth Camps...offering opportunities to enhance physical and mental well-being.
Oregon State University offers a full range of precollege programs designed to open the pathways to higher education through academic and recreational opportunities. We offer programming for every level of student and for educators. Program topics include science, engineering, college awareness and preparation, visual arts, social justice, and much more.

Please visit oregonstate.edu/precollege for a complete list of the 40+ youth outreach programs and detailed contact information.
Talented and Gifted Programs

Expeditions
Entering Grades 4 and 5 • July 6 - 17
Carol Brown, Coordinator • Check website for office location • 541-737-2670
oregonstate.edu/precollege/expeditions
This exciting program provides gifted, talented, and high-ability youth with a two-week, half-day educational experience. Students are introduced to engaging and intriguing subjects in an enjoyable and nurturing environment.
Fees: $220/half-day tuition • Application deadline: April 24

Adventures in Learning
Grades 5 and 6 • July 6 - 17
Dennis Hickey, Coordinator • Check website for office location • 541-737-2403
oregonstate.edu/precollege/ail
This adventuresome program combines stimulating academic and social opportunities in a fun-filled 10-day experience by exposing participants to exciting and sophisticated areas not usually available during the regular school year. The program is for gifted, talented, and high-ability youth who are interested in fast-paced, challenging opportunities.
Fees: $445/full-day tuition • Application deadline: April 24

Outside the Box
Grades 7 and 8 • July 6 - 17
Dennis Hickey, Coordinator • Check website for office location • 541-737-2403
oregonstate.edu/precollege/box
This outstanding program enables gifted, talented, and high-ability youth to pursue topics of interest through a unique combination of in-depth, challenging academic explorations and social interaction with intellectual peers. Program participants can anticipate excitement, discovery, and challenge in the programs’ offerings, which are designed specifically to address their interests and abilities.
Fees: $455/full-day tuition; half-day option available
Application deadline: April 24
4-H Summer Programs

oregon.4h.oregonstate.edu/youth

4-H OSU Summer Conference
Grades 7 - 12 • June 24-27th
Robert Lundeberg, Program Coordinator
OSU State 4-H Office • 541-737-9295

4-H members from all over Oregon attend a wide range of workshops taught by OSU faculty and other community volunteers. Participants will be acquainted with OSU through on-campus tours, gain knowledge in various disciplines, and have the opportunity to be involved in hands-on educational workshops. See oregon.4h.oregonstate.edu/4h-summer-conference.

Cost: $200

4-H International Summer Camps
Grades 3-5 • July 9-12
Grades 6-8 • August 4-8
Grades 6-8 • August 11-15
Mario A. Magaña, Camp Director • Mario.Magana@oregonstate.edu
OSU State 4-H Office • 541-737-0925

Have fun while learning about environmental science, engineering, natural resources, technology, health, nutrition, history, culture; participate in team sports such as soccer, volleyball, archery, canoeing; and learn about career opportunities, financial aid, and special programs for people of color.

Cost: $75-$100 • $25 and $50 scholarships are available
Cathy Law, Director • 245 and 247 Batcheller Hall • 541-737-1822 or 541-737-8139 • www.academy.engr.oregonstate.edu

STEM Academy offers educational enrichment opportunities in the STEM (science, technology, engineering, and math) fields. Programs include after-school girls’ science and engineering clubs, summer camps, and outreach to the schools. STEM Academy also helps support the ASE Program run by Saturday Academy Portland. Classes are small, hands-on, informal, project-oriented, and open to all interested students. Summer tuition varies. Scholarships are available for all camps! For a complete listing of programs along with additional information and registration forms for all STEM Academy programs, please visit the website: academy.engr.oregonstate.edu.

Week of June 22nd-26th:

Creative Minecraft Camp * Entering grades 4-6 * June 22-26 * 9AM-Noon * $135 *
Help us build castles, bridges, towns and more. Don’t worry if you have never played Minecraft before or are just getting started.

Middle School Lego Mindstorms Camp * Entering grades 7-9 * June 22-26 * 9AM-Noon * $135 *
Develop the skills to program a Lego Mindstorms NXT robot in an environment of cooperation!

Minecraft Madness Camp * Entering grades 7-9 * June 22-26 * 1-4PM * $135 *
Come learn how to take your game to the next level! Come and break some blocks with us! Note: We have PC computers with Minecraft installed. Please leave your personal laptop at home.

Elementary School Lego Mindstorms Camp * Entering Grades 4-6 * June 22-26 * 1-4PM * $135 *
Develop the skills to program a Lego Mindstorms NXT robot in an environment of cooperation!

Week of July 6th-10th:

“Blender” Computing Camp * Entering Grades 9-12 * June 6-10 * 1-4PM * $135 *
In this camp, you will use it to learn 3D viewing, moving objects in 3D, creating 3D geometry, coloring, lighting, rendering, and animation. It's demanding computer work, but the results will amaze you!

DNA Biology and Bioinformatics Camp (Basic) * Entering Grades 8-12 * July 6-10 * 9AM-Noon * $135 *
This summer we invite you to come and explore the world of modern biology and learn how to examine the complexities of DNA. Notes on Grade Level: This camp is intended for high school aged students. Therefore, 8th-graders who chose to register should be at a high school age maturity-level and academic understanding.
STEM Academy@OSU Camps

**Week of July 13th-17th:**

**DNA Biology & Bioinformatics (Advanced)*** Entering Grades 8-12 * July 13-17 * 9AM-Noon *$135*
You will participate in hands-on activities involving advanced genomics and bioinformatics tools to identify existing or new species of worms by embarking on the 'worm hunt', identify animal cancer cells from healthy cells, characterize bacterial strains and perform bioinformatics analyses of assembling and annotating the sequenced bacterial genomes that the students will characterize.

**Advanced Creative Computing Camp** Entering Grades 9 - 12 * July 13-17 * 1-4PM * $135 *
Imagine designing your own Arcade or Platform game with running, jumping, blasting and enemy stomping from scratch! No programming skills needed.

**Week of July 20th -24th:**

**Introduction to Lego Robotics (Level 1)*** Entering Grades 3-5 * July 20-24 * 9AM-Noon * $135 *
This class will teach students to use a combination of engineering and creativity to build working, moving machines. No robotics experience necessary!

**Engineering Camp** Entering Grades 6-9 * July 20-24 * 9AM-4PM * $270 *
Hands-on activities each day will feature bioengineering, chemical, civil, environmental, electrical, industrial manufacturing and mechanical engineering.

**WaterBots: Underwater Lego Robotics *** Entering Grades 9-12 * July 20-24 * 9AM-Noon * $135 *
Learn basic principles of physics and engineering to design, build, test, and redesign your robots that will be able to speed across a pool, maneuver underwater, and pick up objects. Note: Only the robots go in the water—not the designers!

**Introduction to Lego Robotics (Level 1)*** Entering Grades 3-5 * July 20-24 *1-4PM * $135 *
Learn to use laptops, Legos, and the WeDo Robotics software to create your own Lego robots! No robotics experience necessary!

**Week of July 27th – 31st:**

**Introduction to Lego Robotics (Level 1)***
Entering Grades 3-5 * July 27-31 * 9AM-Noon * $135 *
Learn to use laptops, Legos, and the WeDo Robotics software to create your own Lego robots! No robotics experience necessary!

**Biochemistry Camp** Entering Grades 7-9 * July 27-31 * 9 AM-Noon * $135 *
Students will engage in glowing, explosive, and other exciting hands-on activities to investigate the diverse world of proteins. Activities will include engineering proteins, exploring the insides of proteins, growing protein crystals, and much more!
**Week of July 27th – 31st continued:**

**3D Modeling & Printing Camp**  *Entering Grades 7-9*  *July 27-31*  *9-Noon*  *$135*  *In this camp you will learn the methods, materials, and limitations of 3D printing. You will also create, edit, and share your own 3D models. You will prepare an object for printing on a 3D printer and observe it as it comes to life.*

**Ecological Restoration Field Camp**  *Entering Grades 9-12*  *July 27-31*  *9AM-3PM*  *$175*  *Working with faculty of OSU College of Forestry on the McDonald and Dunn OSU Research Forests, participate in hands-on activities involving wildlife, native plants, silviculture, and habitat restoration. Visit the College of Forestry and learn about potential careers in forestry and how these professionals make a difference in the world. Notes on Location: This program takes place off campus; transportation will be available from Garfield School and OSU.*

**Introduction to Lego Robotics Camp (Level 1)**  *Entering Grades 3-5*  *July 27-31*  *1-4PM*  *$135*  *Learn to use laptops, Legos, and the WeDo Robotics software to create your own Lego robots! No robotics experience necessary!*

**Elementary Video Game Design Camp**  *Entering Grades 4-6*  *July 27-31*  *1-4PM*  *$135*  *Create classic arcade games like Pacman, Space Invaders, and Frogger, or your own version of games like the Sims. This class will give you a good introduction to the world of game programming. No programming skills needed.*

**Ecosystem Sleuths Camp**  *Entering Grades 7-9*  *July 27-31*  *1-4PM*  *$135*  *Join biologists from OSU's Fisheries and Wildlife department to discover the wonders of the natural world! In this camp students will get acquainted with the topics of how animals use habitats and how scientists work to keep ecosystems healthy through both lab activities and field-based excursions. Note: Location of camp will vary day to day; either on OSU campus or a natural area in Corvallis.*

**Week of August 3th-7th:**

**Introduction to Lego Robotics (Level 1)**  *Entering Grades 3-5*  *August 3 - 7*  *9AM-Noon*  *$135*  *Learn to use laptops, Legos, and the WeDo Robotics software to create your own Lego robots! No robotics experience necessary!*

**Elementary Video Game Design Camp**  *Entering Grades 4-6*  *August 3 - 7*  *9AM-Noon*  *$135*  *Create classic arcade games like Pacman, Space Invaders, and Frogger, or your own version of games like the Sims. This class will give you a good introduction to the world of game programming. No programming skills needed.*
**Week of August 3th-7th continued:**

**Computational Biology Camp** * Entering Grades 7-9 * August 3 - 7 * 9AM-Noon * $135 *

In this camp, you’ll get to contribute to the world’s scientific knowledge by playing fun computer games to solve structural puzzles about real RNA and protein molecules. You’ll also learn many other ways that computers help scientists solve the world’s mysteries! No prior programming knowledge required.

**Introduction to Lego Robotics Camp (Level 1)** * Entering Grades 3-5 * August 3 - 7 * 1-4PM * $135*

Learn to use laptops, Legos, and the WeDo Robotics software to create your own Lego robots! No robotics experience necessary!

**Middle School Video Game Design Camp** * Entering Grades 6-9 * August 3 - 7 * 1-4PM * $135 *

Create classic arcade games like Pacman, Space Invaders, and Frogger, or your own version of games like the Sims. This class will give you a good introduction to the world of game programming. No programming skills needed.

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**Week of August 10th-14th:**

**Introduction to Lego Robotics (Level 2)** * Entering Grades 3-5 * August 10 - 14 * 9AM-Noon * $135 *

This Camp is designed as a continuation of the Level 1 camp described above. Students who sign up for this camp should either have attended a Level 1 camp or have previous experience in Lego robotics. The camp will begin with a refresher using WeDo Robotics kits and software and then will advance to using LEGO®Mindstorms RCX kits and software.

**Creative Computing Camp** * Entering Grades 6-8 * August 10 - 14 * 9AM-Noon * $135 *

This multimedia camp adventure introduces younger students to the building blocks of programming through fun interactive stories and games. Explore computational science through the lens of designing and building your own games. This class will give you a good introduction to the world of game programming. No programming skills needed.

**Introduction to Lego Robotics Camp (Level 2)** * Entering Grades 3-5 * August 10 - 14 * 1-4PM * $135 *

This Camp is designed as a continuation of the Level 1 camp described above. Students who sign up for this camp should either have attended a Level 1 camp or have previous experience in Lego robotics. The camp will begin with a refresher using WeDo Robotics kits and software and then will advance to using LEGO®Mindstorms RCX kits and software.

**Creative Computing Camp** * Entering grades 6-8 * August 10 - 14 * 1-4PM * $135 *

This multimedia camp adventure introduces younger students to the building blocks of programming through fun interactive stories and games. Explore computational science through the lens of designing and building your own games. This class will give you a good introduction to the world of game programming. No programming skills needed.
Saturday Academy’s Apprenticeships in Science and Engineering Program
Exiting Grades 9 -11
Saturday Academy Portland Office • 503-200-5861
www.saturdayacademy.org/ase
The ASE Program offers high school freshmen through juniors a chance to work with an engineer or scientist for eight weeks during the summer. A stipend may be available. Students also attend workshops, seminars, lectures, and leadership classes at the Mid-Summer Conference at Oregon State University. Students will present their work in a poster session at a final symposium at Portland State University.

SESEY: Summer Experience in Science and Engineering for Youth
Grades 9 - 12 • July 12 - 17
Skip Rochefort • School of Chemical, Biological and Environmental Engineering • 103 Gleeson Hall • 541-737-2408
cbee.oregonstate.edu/sesey

Skip.Rochefort@oregonstate.edu, christine.kelly@oregonstate.edu
SESEY is primarily for high school girls and ethnic minorities traditionally underrepresented in science and engineering. Students come to the OSU campus for a one-week residential summer camp and are paired with a faculty mentor in engineering for a mini-research project in areas such as micro scale technologies, plastics recycling, drug formulation and delivery, bioprocessing, microelectronics, and environmental engineering. There are also group learning activities such as computer instruction, communication skills, field trips and social activities. Students are exposed to science and engineering as viable and interesting career paths. Career counseling is provided by faculty mentors and OSU students who work with participants during the week as research project advisors and friends. Students live in OSU housing, so they receive a complete college experience.

Cost: $200 (includes room & board, field trips, materials, and instruction) due after acceptance into the program. Students are responsible for getting to/from OSU. Scholarships are available. Application deadline: May 18.
High School Programs

JumpstART: Precollege Visual Arts Workshop
Ages 15-18 • July 6 - July 17
Nathan Langner, Director • Dept of Art • 541-737-3876
http://liberalarts.oregonstate.edu/school-arts-and-communication/art/jumpstart
This visual arts summer residential/day program, hosted by the Department of Art, emphasizes skill development and conceptual growth through exposure to accelerated art instruction and faculty mentors. Students spend six hours daily working in the art and design labs, attend evening presentations by guest lecturers and artists, and participate in multi-discipline events. The workshop concludes with a final exhibition, as well as an evaluation of student portfolios by a faculty committee.
Cost: $1,995 residential; $1,395 for commuters. Scholarships are available.

High School Journalism Institute
Grades 9 - 12 • July 20th-27th
Kami Hammerschmith, Assistant Director of Orange Media Network
541-737-6379 kami.hammerschmith@oregonstate.edu
Co-hosted by OSU and The Oregonian, this camp seeks to promote diversity in newsrooms of the future. Working with professionals in the field, participants will report, photograph and design a newspaper as well as blog and produce multimedia pieces for The Oregonian’s website. They will learn the value of making a difference by covering multiple perspectives in the news. Application deadline: April 30
Cost: FREE, application and acceptance is required, 20 maximum.

Young Entrepreneurs Business Week
Grades 9 - 12 • August 2-8
www.yebw.org, Email: info@yebw.com, 503-576-4871
YEBW’s college-accredited programs apply textbook theory to real world situations. Students reside in Weatherford Hall and experience the value of business skills for any occupation. Participants are placed in mock companies and are given the opportunity to lead their peers as the CEO, crunch numbers as part of the finance team, or develop a marketing plan to skyrocket their sales. They learn business and investing strategies, develop leadership skills, and are inspired to network and prepare for their future.
Oregon Tuition: $795 Out-of-state Tuition: $1,295 (financial assistance & fundraising opportunities available)
Oregon Sea Grant Programs

Location: Hatfield Marine Science Center • Newport, Oregon
Camp Hours: Monday - Thursday 9 AM - 3 PM
Contact: Kathryn Hawes, 541-867-0233
Email: SeaGrantMarineEd@oregonstate.edu

For information on OSU’s Hatfield Marine Science Center K-12 programs, go to http://hmsc.oregonstate.edu/visitor/education-programs/day-camp or visit the Center’s website at: http://hmsc.oregonstate.edu/visitor/ To register for camps visit https://apps.ideal-logic.com/seagrantmarineed

Aquarium Science Camp
Ages: 15-18 year olds
Dates: July 13-16, 2015
Cost: $175.00
Discover the field of Aquarium Science by setting up aquaria and exploring different coastal habitats collecting animals for exhibits. Help our animal husbandry staff feed and care for fish and invertebrates and take a tour of the Oregon Hatchery Research Center to see how the staff care for fish in a unique setting.

Ocean Engineering Camp
Ages: 13-14 year olds
Dates: July 20-23, 2015
Cost: $175.00
Learn about marine technology and the wide range of uses by ocean researchers. Design, build, and test engineering devices to complete real-life missions. Campers will build light traps for collecting plankton and ROVs to see what lies beneath the surface. We will hear from researchers on wave energy and try our hands at building the most efficient wave energy device.
Animal Adaptations Camp  
Ages: 10-12 year olds  
Dates: July 27-30, 2013  
Cost: $175.00  
Discover the wondrous world of marine animals through field trips, dissections, interactions with researchers, and other hands-on activities. Campers will explore life in the wide range of habitats along the Oregon Coast, investigating how animals are adapted to these unique environments.

Habitat Hunt Camp  
Ages: 8-9 year olds  
Dates: August 3-6, 2015  
Cost: $175.00  
Campers will explore the coastal forest, rocky shores, sandy beach, and estuary habitats that make the Oregon Coast unique. Discover the diversity of marine life in each habitat and the special adaptations organisms have that help them thrive. What makes the habitats similar or different? How are they connected? Join us to see for yourself!

Family Programs  
Ages: 4 - Adult  
July 6-9, 2015; 9-11:30AM and 1:30-4PM  
Choose from two sessions (AM or PM) each day. Sessions are 2.5 hours long and you can come to one, all eight, or any combination of sessions you want. Activities range from exploring the estuary to dissecting a squid! Visit our website for program details and to preregister: http://hmsc.oregonstate.edu/visitor-center/educationmarine-education/family-programs  
Cost: $15 per person per session
KidSpirit Summer Day Camps
kidspirit.oregonstate.edu • 541-737-KIDS (5437)
Grades K-12 • June 18-August 31 •
One and Two Week Sessions
Enjoy games, sports, arts, science, computers, and more at KidSpirit Summer Day Camps! Make friends and play your favorite games on OSU’s campus with outstanding and energetic staff. Come to camp in the morning, afternoon, or all day. Different camps offered depending on age and preference.

Junior Beavers: Grades K-2. Participate in a variety of activities, including swimming, science, rock climbing, t-ball, art, gymnastics and drama.

Dam Builders: Grades 3-5. Experience a variety of activities, including swimming, diving, lacrosse, bowling, First Aid/CPR, tie-dye, scrap booking, cooking, and foreign language.

Duck Busters: Grades 6-8. Participate in activities such as pottery, leadership, First Aid training, and a variety of sports.

Teen Programs: Grades 9-12. Develop leadership skills through an interactive, team-building curriculum and hands-on experience with our younger day camp participants.
Future Iron Chefs: Grades 3-8. Bake, chop, blend, dice, and sauté while preparing foods for breakfast, lunch, and dinner from around the world! Participants will learn the art of recipe preparation, kitchen skills, safety, menu planning, and grocery shopping, along with the importance of a healthy diet, all while preparing their own meals!

Chefs in Motion: Grades 3-8. An overall wellness program combining running/walking and cooking gives participants the opportunity to participate in non-competitive physical activity with a nutritional cooking component. Each session wraps up in a KidSpirit 5K event to celebrate each participant’s accomplishments and progress toward their personal goals.

DISCOVER SCUBA! Ever wonder what it’s like to breathe under water? Join us in the pool to see what it’s like!

Family SCUBA Class: Monday, June 1 • Adults and Children (ages 10 and older) 6:00PM - 7:30PM • 90 minutes: 45 classroom learning; 45 in the pool $40 per person

Summer Day Camp SCUBA: One day of our Duck Buster Outdoor Adventure Classes during sessions 3, 5, and 6

Gymnastics Program
Ages 2 - 18 • 8 classes, twice-a-week or once-a-week
Come flip for fun in gymnastics! Participants will explore movement with emphasis on strength, flexibility, balance, and coordination. KidSpirit gymnastics participants will focus on four primary events including floor exercise, uneven bars, balance beam and vault.
Chefs in the Garden: Hosted at Corvallis High School Spartan Garden, Chefs in the Garden is an outdoor camp for kids ages 6-8 years old. Activities for all sessions include gardening, nutrition education, fun and active games, and arts and crafts.

8:30AM - 2:00PM Cost:$135.00 per week (snacks and lunch included)

Session 1 (Garden Creatures): July 20-24*
Session 2 (Backyard Science): July 27-31
Session 3 (Artistic Adventures): August 3-7

Junior Master Chefs: Hosted at the Linus Pauling Middle School teaching kitchen, Junior Master Chefs is a summer day camp for kids ages 8-11 years old. Children will learn basic cooking skills, try new recipes, and participate in a fun cooking competition at the end of the week.

8:30AM - 2:00PM Cost:$135.00 per week (snacks and lunch included)

Session 1 (Edible Explorations and Experiments): July 6-10
Session 2 (Cooking Around the World): July 13-17

Master Chefs: Youth ages 11-14 will cook with “mystery” ingredients, participate in cooking competitions, and grill things they never thought possible - all in the outdoor kitchen at the Corvallis High School Spartan Garden.

Cost:$95.00 per week (snacks and lunch included)

Session 1: August 10-14
Session 2: August 17-21

OSU Sports Camps

Baseball
Basketball (Girls & Boys)
Soccer (Girls & Boys)
Strength & Conditioning
Golf

Gymnastics
Cheer
Volleyball
Football
Wrestling
OSU Chamber Music Workshop: July 2015
Ages: 10-21

The Oregon State University Chamber Music Workshop will welcome advanced and intermediate string students ages 10 to 21 to the campuses of Oregon State University and Ashbrook Independent School in July 2015 (Session I July 6 - 11; Session II July 13 - 18). Explore the world of chamber music with a distinguished faculty of Oregon’s top string players. Benefit from coaching, sight-reading, supervised practice, master classes, and opportunities to perform with ensembles in informal concerts. Enjoy exploring the OSU campus during fun group activities.

Tuition for one week is $400. or $700 (one week)/$1,200 (two weeks) for a residency option for students 14 years and older.

Please visit https://pace.oregonstate.edu/catalog/oregon-state-university-chamber-music-workshop-2015 for more information or contact:
Professional and Continuing Education,
541-737-4197
e-mail: learn@oregonstate.edu
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Precollege Programs  
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541.737.6422  precollege@oregonstate.edu