oregoncsta.org

PROFESSIONAL DEVELOPMENT

Curriculum and Pedagogy

3D Manufacturing

Software Programming

<html> <Web Coding>

Arduino Micro electronics

Robotics

Game Design

PARTNERSHIPS

CSForAll
CSTeachers.org
code.org
Oregon FabLab
Oregon Game Project Challenge
OregonAsk
ORTOP
Pixel Arts
NCWIT
IBM
SparkFun
Garmin
eBay
Regional STEM Hubs & ESDs
Portland State University
University of Oregon
Oregon State University
Oregon Tech
Western Oregon University
George Fox University
Chemeketa Community College
Clackamas Community College
Portland Community College
Rogue Community College

csta Oregon

Oregon Computer Science Teachers Association

MISSION + VISION

The mission of the Oregon Computer Science Teachers Association is to increase the number of K-12 Computer Science and engineering programs in Oregon in order to give our students the opportunities for careers and college-ready diplomas upon graduation. It is the responsibility of the education system to offer opportunities for all students to experience high-pay, high-demand career education.

SUPERQUEST

Our flagship program is SuperQuest. In existence for 30 years, it is a highly collaborative series of technology training workshops designed **specifically for K–12 educators and volunteers**.

SuperQuest trains, prepares and empowers educators with the skills and classroom tools necessary to implement hands-on technology learning directly into their classrooms or after school programs.

SuperQuest is affordable and available year round throughout many locations in Oregon. In 2017, workshops will be offered at 12 state-wide sites for a cumulative total of 30 days of professional development opportunities.

2017 EVENTS

Mar 18: Spring Conference and Programming Contest
Mar 21-24: Pre-NCCE workshop
Jun 24: Symposium
Jun 26-27: SQ Salem
Jun 27-29: SQ Wilsonville
Jul 12-14: SQ Redmond/Bend
Jul 19-21: SQ Eastern Oregon
Jul 26-28: SQ Newport
Aug 2-4: SQ Eugene
Aug 15-17: SQ Medford
Oct 14: Fall Conference
More locations TBA

Terrel Smith
OregonCSTA President
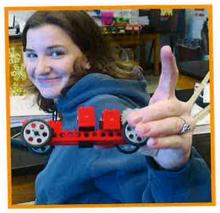Phone: 503-825-5559
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Oregon Computer Science Teachers Association

Serving Oregon Educators and Students for over 30 years!

**OregonCSTA has developed the only
Statewide Computer Science Network
designed to offer customized PD to all areas of Oregon.**

**SuperQuest trainings will benefit approximately
22,715 Oregon K-12 students
*EVERY YEAR!***

**OregonCSTA faculty honors and awards:
White House speakers on CSForAll
White House Champions of Change for Maker Space
Paul Allen Educator of the Year
OnPoint Educator of the Year**

**SuperQuest attendees say:
98% would attend another training
98% would recommend SuperQuest to a colleague
88% felt very knowledgeable about subject matter after attending**

**SuperQuest workshops are offered state-wide:
Wilsonville-Salem-Redmond-Pendleton
Newport-Eugene-Medford
*Customizable workshops also available at any location***

SUPERQUEST CURRICULUM and Professional Learning Communities

COMPUTER SCIENCE	ENGINEERING	PEDAGOGY	GAME ENGINES
AP Computer Science	3D Maker Space	CSForAll	GameMaker
ECS and CS Principles	Robotics: Lego, FTC, FRC, VEX	Program of Study Implementation	Alice
CS Unplugged	Arduino	How to start a CS Program	Scratch, ScratchJr
Programming: VB, Python, JAVA, C++, C#, XNA	Computer Aided Design	ACM Curriculum	Stencyl
Web Coding: Java Script, HTML, PHP, CSS	Underwater ROV	CSTA/ACM CS Standards	Unity: 3D game engine
MOOCs, code.org, Code Academy	SparkFun	High-tech Turn-key Curriculum	Blender: 3D Modeling
Hardware-CompTIA, LearnKey	Engineering in NGSS	Design Thinking & Digital Literacy	Oregon Game Project Challenge
Willamette Programing Contest	ORTOP Lego Robotics training	Meeting Math standards through coding	Robot Arena: Virtual robots & competition

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Code

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LEARN
HOW TO
CODE

SHERWOOD HIGH
SCHOOL

Sherwood High School CTE-Information Systems

Course Topics:

Networking

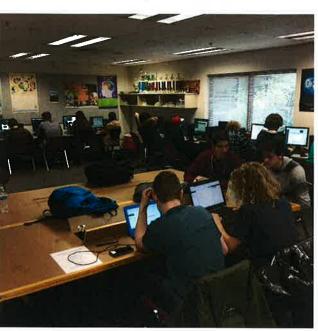♦ CompTIA A+
♦ CompTIA Network+
♦ CompTIA Security+

Software Engineering

♦ JAVA
♦ AP Computer Science
♦ Visual Basic
♦ Python
♦ C++/C#
♦ Ruby
♦ OregonCSTA Programming Contest

Digital Design

♦ Scratch
♦ GameMaker
♦ Alice
♦ Unity3D
♦ Blender 3D
♦ Robot Arena 2
♦ PHOTOSHOP
♦ Illustrator
♦ OGPC Game Design Teams

Web Coding

♦ HTML5
♦ JavaScript
♦ CSS
♦ PHP
♦ Google Sites
♦ DreamWeaver
♦ Web Management

Class Offerings

Graphics
We will be using Adobe Design Suite for PHOTOSHOP and Illustrator.

Programming
Visual Basic, C++, C#, XNA, JAVA, Python, Ruby

Projects
The students will have a menu of course options for this class. They will be able to design their own hi-tech curriculum.

StRUT
Students will prepare for the A+, Network+, and Security + certification exams, repair and build computers, study networking, and manage donated computer equipment. An online curriculum will be provided through www.sherwood.onlineexpert.com (LearnKey)

Game Design -This class is an introduction to Computer Science through Game design. Students will use the programs Gamemaker and Alice to design interactive games. After 8 weeks of game design students will use Unity 3D to finish the trimester.