CSU, CHICO SUMMER 2016 SCHEDULE *

PLTW | GATEWAY

Automation & Robotics: June 27–July 1
Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics® platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Design & Modeling: June 20–25
Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. They work in teams to design a playground and furniture, capturing research and ideas in their engineering notebooks. Using Autodesk® design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

Energy & the Environment: July 18–20
Students are challenged to think big and toward the future as they explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. They design and model alternative energy sources and evaluate options for reducing energy consumption.

Flight & Space: July 11–13
The exciting world of aerospace comes alive through Flight and Space. Students explore the science behind aeronautics and use their knowledge to design, build, and test an airfoil. Custom-built simulation software allows students to experience space travel.

Medical Detectives: July 25–29
Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence found at a “crime scene.” They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health.

Training Fees:
- 3-day training: $700
- 5-day training: $1,500
- 10-day training: $2,500
Fees include lunch & snacks.

Accommodations, including hot breakfast and evening reception, are extra (see back page).

* The 2016 Summer Schedule for PLTW at Chico State is tentative and subject to change based on enrollment numbers.
PLTW | LAUNCH

Session 1: June 27–29

Session 2: July 25–27

PLTW Launch is designed for students in kindergarten through fifth grade to capture their interest in and spark a lifelong passion for math and science. Through a series of topic-based modules, students engage in design problems that encourage collaboration, analysis, problem solving, and computational thinking. They use touch technology, robotics, and everyday materials to explore topics such as energy, light and sound, motion and stability, and gravity.

PLTW | ENGINEERING

Environmental Sustainability: July 11–22

In Environmental Sustainability, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges.

Civil Engineering and Architecture: July 25–August 5

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Principles of Engineering: July 25–August 5

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.
ACCOMMODATIONS

OXFORD SUITES CHICO
www.oxfordsuiteschico.com/

• Shuttle transportation available to & from the Chico State campus
• Guest suites feature premium bedding, a refrigerator and microwave, and both wired and wireless internet
• Outdoor pool, spa, sauna, steam room & fitness center
• Complimentary full hot buffet breakfast & evening reception with beer, wine & appetizers
• Special PLTW nightly rates are available:
  Double Queen Suite: $100
  Studio King Suite: $90
  Executive King Suite: $105
• To reserve a room at the group rate, book online at www.oxfordsuiteschico.com/ using promo code “CSUC” or call the hotel directly at 530-899-9090 and provide the same promo code.

MEALS

In addition to the hot breakfast and evening reception hosted by the hotel, you will be provided a “Wildcat Card” pre-loaded with money to spend on snacks and lunch at one of our on-campus foodservice locations, including the Marketplace Café, convenience stores, and coffee shops.

Dinners will be on your own. There are a number of restaurants in Downtown Chico, just steps from campus, and also within walking distance of Oxford Suites.

RESERVE YOUR SEAT!

To make a reservation for training at CSU, Chico, send an email to pltw@csuchico.edu and include the teacher’s name & email, school, district, and the course(s) interested in.

CONTACT INFORMATION

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