



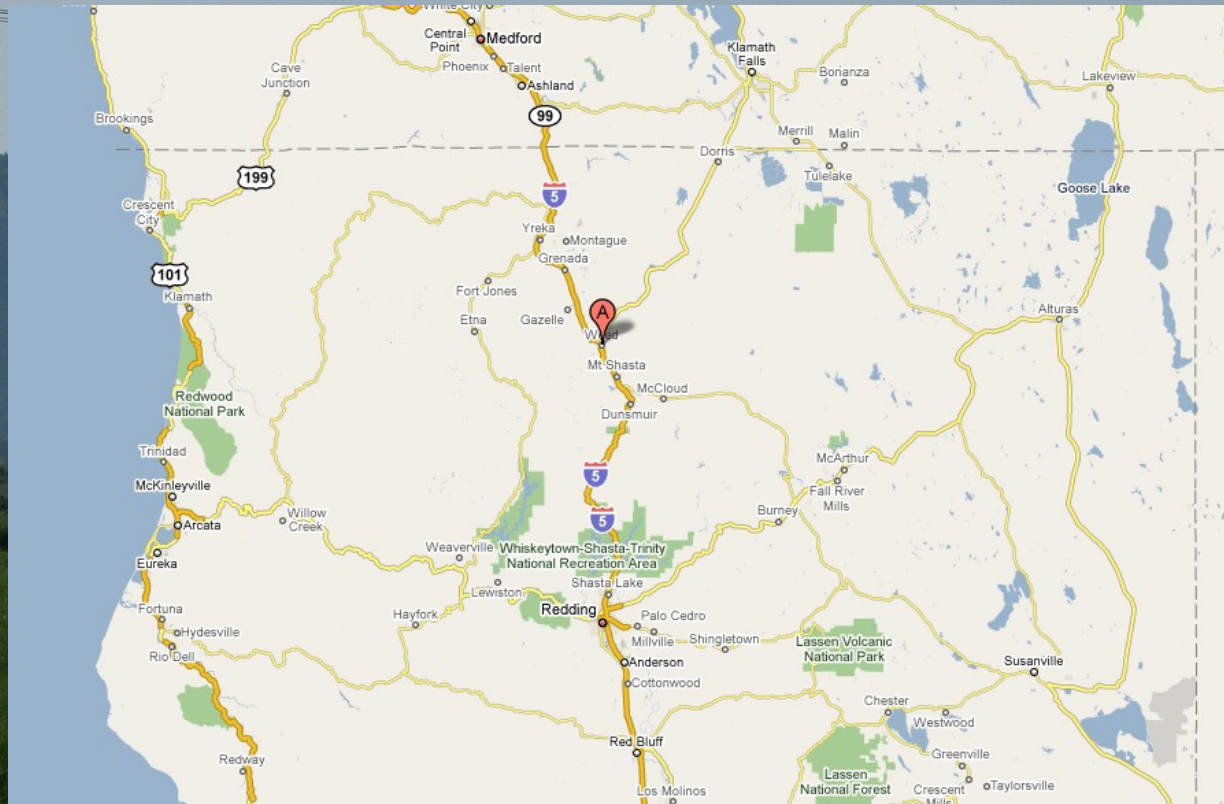
College of the Siskiyous Power Generation Technology

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8/27/09

College of the Siskiyous

- Community College in Weed, CA
 - (60 miles south of the Oregon border, 70 miles north of Redding on I-5)



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College of the Siskiyous

- Small class sizes
- Limited waiting lists
- Exceptional instructors
- Friendly staff
- Great support programs
- Safe learning environment
- On-campus housing
- Active campus clubs
- Free parking
- Beautiful Location



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College of the Siskiyous



- Career and Technical Education Programs
 - Fire, ADJ, Nursing, EMT/Paramedic, Welding, Business, Computers, AD/HS, ECE
- SB70 Grant funding from the CA Community Colleges Chancellor's Office
 - \$369,700

COS – Environmental Resources


- Beginning Fall 2009
- Environmental Resources Technology
 - Forestry, Wildlife, Recreation
- Sustainable Communities
 - Green-collar jobs; Entrepreneurship
- Power Generation Technology

Power Generation Technology

A tall metal transmission tower stands in a green field with mountains in the background. The tower is a lattice structure with several power lines extending from it. The background shows a range of mountains under a clear sky.

- Industry Support
 - Advisory Committee
 - Roseburg Forest Products, Marubeni, Burney Forest Power, Wheelabrator, Redding Electric Utility, Covanta Energy, Tetrad, Wellons
 - Roseburg Forest Products
Proposed Co-Gen plant
- Discontinued program at Lassen College
 - Some reasons why
 - Length of time on site in Susanville
 - Lack of incentive to stay in program instead of accepting full-time work

Power Generation Technology



This program will prepare students for entry level positions in the steam and electrical power generation and distribution industry. Students will be trained to control, monitor and maintain boilers, turbines, generators, and auxiliary equipment in power-generating plants. Courses will include an introduction to how operators manage and distribute power demands among generators and other steam hosts as well as monitor instruments to maintain voltage and regulate electricity flows from the plant. The theory and operation of all plant support and ancillary equipment will be included. Computers will be used to keep records and prepare reports of plant operations, functions, and maintenance. A connection to bio-fuel sources and related issues will be emphasized.

Program Outline

Course No.	Course Title	Units	Delivery
ERPG 50	Power Plant Fundamentals	2	On-Line
ERPG 51	Intro to Ops. and Maintenance Techniques	1	On-Line
ERPG 52	Operations and Maintenance Safety	1	On-Line
ERPG 49	Work Experience – Enrollment #1	2	Site
ERPG 53	Boilers & HRSG	3	On-Line
ERPG 54	Steam Turbines & Generators	1	On-Line
ERPG 55	Gas Turbine Engines	1	On-Line
ERPG 56	Plant Water Treatment	2	On-Line
ERPG 49	Work Experience – Enrollment #2	4	Site
MATH 53	Intermediate Algebra	3	Campus
BA 58	Business English	3	Campus
ERPG 61	Technical Drawing Interpretation	3	Campus
ERPG 62	Electrical Generation and Transmission	2	Campus
ERPG 63	Combustion and Emission Control	2	Campus
ERPG 64	Instrumentation and Control	3	Campus
ERPG 49	Work Experience – Enrollment #3	2	Site
ERPG 49	Work Experience – Enrollment #4	4	Site
Total Units		39	

8/27/09

Certificate/Degree Options

- Certificate
 - 6 units (ERPG 50, 51, 52, 49#1)
- Certificate of Achievement
 - 39 units (all listed major courses)
- AS Degree
 - 39 units of major coursework
 - General Education units
 - 60 total units for degree

Benefits of COS program

- Online delivery of introductory courses

- 11 units

- Limits time students must spend at the campus

- Can work and take classes concurrently

- Limits program attrition

Hands-on learning through Work Experience

- Actual site experience

- Connections with potential employers

- Several potential sites

How does this affect my company?

- Training needs
 - Professional development for existing employees
- Recruitment opportunity
 - Source of qualified employees
 - If a Work Experience site
 - Have personal knowledge of potential employees
 - Train potential employees on your site/equipment

What COS asks in return

A tall metal power line tower stands in a green field with mountains in the background. The tower is a lattice structure with several cross-arms. Power lines run horizontally across the frame. The background shows a range of mountains under a clear blue sky.

- Program input
 - Ensuring the program adapts to fit the changing needs of industry
 - Equipment needs
 - Scheduling suggestions
- Support of program to students
 - Encouragement/incentive to complete program



Input/Suggestions?

Thank you!

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