

## CAPITAL CENTER HIGH SCHOOL

**School District/ Location:** NWRESA (Northwest Regional Educational Service District)

**Web Address:** <http://www.nwresd.k12.or.us/instructionalserv/capital/index.html>

**Overview:** Capital Center High School Technology Institute programs are designed to give students a solid background in the academic area of study, career exploration, employability skills, job shadows and structured work experiences. Students attend classes as part of the regular classroom program at their home high school. The use of technology is integrated into the course work. These programs can lead to post-secondary educational opportunities at the community college and four-year institutions, as well as career opportunities in industry. Students participating in these programs may earn college credits while completing high school. The school emphasizes having industry professionals as teachers.

*Source:* <http://www.nwresd.k12.or.us/instructionalserv/capital/index.html>

### **Courses Offered/Program Format:**

- Engineering as a Profession (1 year – average 30 students)
- Information Technology/ CISCO Networking Academy (2 year – average Year I, 22 students, Year II, 11-12 students )
- Information Technology: Linux/Unix (1 year – average 15 students)
- Essentials of Information Technology (1 year; ELL (English Language Learners) students only, average 20 students)
- Electronic Engineering
- Corporate Web Design
- 3D Design and Technology
- Other programs less relevant to pre-engineering & applied sciences

**Size of Program:** 90% of students are 12<sup>th</sup> graders and complete their technical program. Students usually drop because of early graduation or moving out of district, not because they are not happy with the programs. Most of the programs deliberately limit enrollment to ensure adequate workstations and attention. The class of 2005-06 is anticipated to be 450-500 students with an average class size between 18 and 35 students.

**Curriculum Used:** Engineering as a Profession is offered in conjunction with OIT, which must approve the curriculum. CISCO Academy is a national program with an online curriculum. The rest of the curriculum has been developed over a ten-year period and is constantly updated to reflect current industry standards. The engineering teachers are both active PE's; the Electronic Engineering program is taught by an Intel engineer.

**Time Spent by Students:** All programs are 10 hours per week for 35 weeks. Many students are scheduled for additional hours as a six-week internship in local businesses. Students return to their home high school for general requirements and facilities for

music, theater, and science. Starting in 2005 – 2006, there will be 11 full-time students at Capital Center HS.

**Results to Date:** Capital Center High School is 10 years old. Anecdotal evidence of its success exists in emails from alumni, and with lists of which colleges accepted them. Follow up studies of Engineering students for the last three years indicate that 90% of graduates enroll in post secondary 2 to 4 year engineering programs.

**Outside Funding Sources and Partners:** Intel Corporation, Tektronix, Inc, Metro Portland Auto Dealers Association, Beaverton School District, Northwest Regional Education Service District, Portland Community College, Oregon University System, Oregon Institute of Technology, Beaverton and Hillsboro Police Departments.

**Other Interest Point(s):** This year, the Engineering Program is adopting an elementary school and will be working with 5<sup>th</sup> and 6<sup>th</sup> graders on hands-on projects such as LEGO robotics and bridge-building. The school has had problems placing interns, and always welcomes guest speakers from industry.