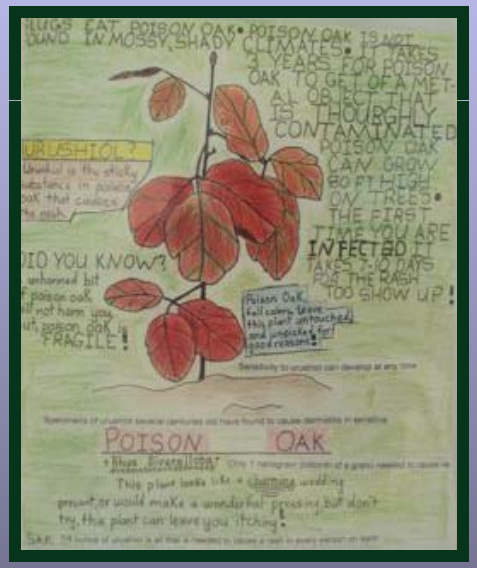
Sustainability:
Stories and Strategies

Presenters:

- **Dawn Tarzian,**
  Superintendent, Corvallis SD
- **Anne Schuster,**
  School Board, Corvallis SD

Critical Components for a School District's Journey towards Sustainability



- A champion(s) for the cause
- A sustainability committee
- An adopted sustainability policy or vision or strategic goal
- Sustainability training for all district staff
- Two-way communication about sustainability efforts between central office and all school sites

Timeline for Corvallis Sustainability Plan

- **2007--Community visioning**
- **2008--School board adopts goal**
- **2009--Superintendent convenes Steering Committee**
- **2010--Committee completes matrix**
- **Ongoing--implementing the matrix**

Education & Career Awareness

- Education for Sustainability
- Career Preparation
- Education for Staff
- Service Learning

Facilities and Operations

- Buildings
- Grounds and Landscaping
- Indoor Environment/Toxics

Systems and Services

- Food and Wellness
- Transportation
- Procurement and Resource Management
- Management System

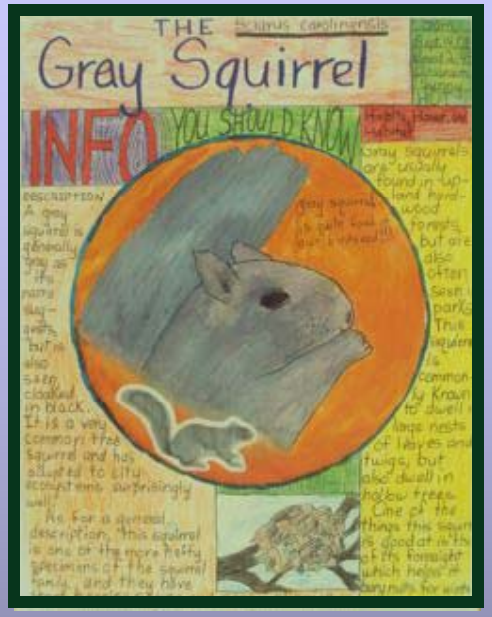
Community and Culture

- Community Involvement
- Multi-Cultural Proficiency
- Communications

Education for Sustainability

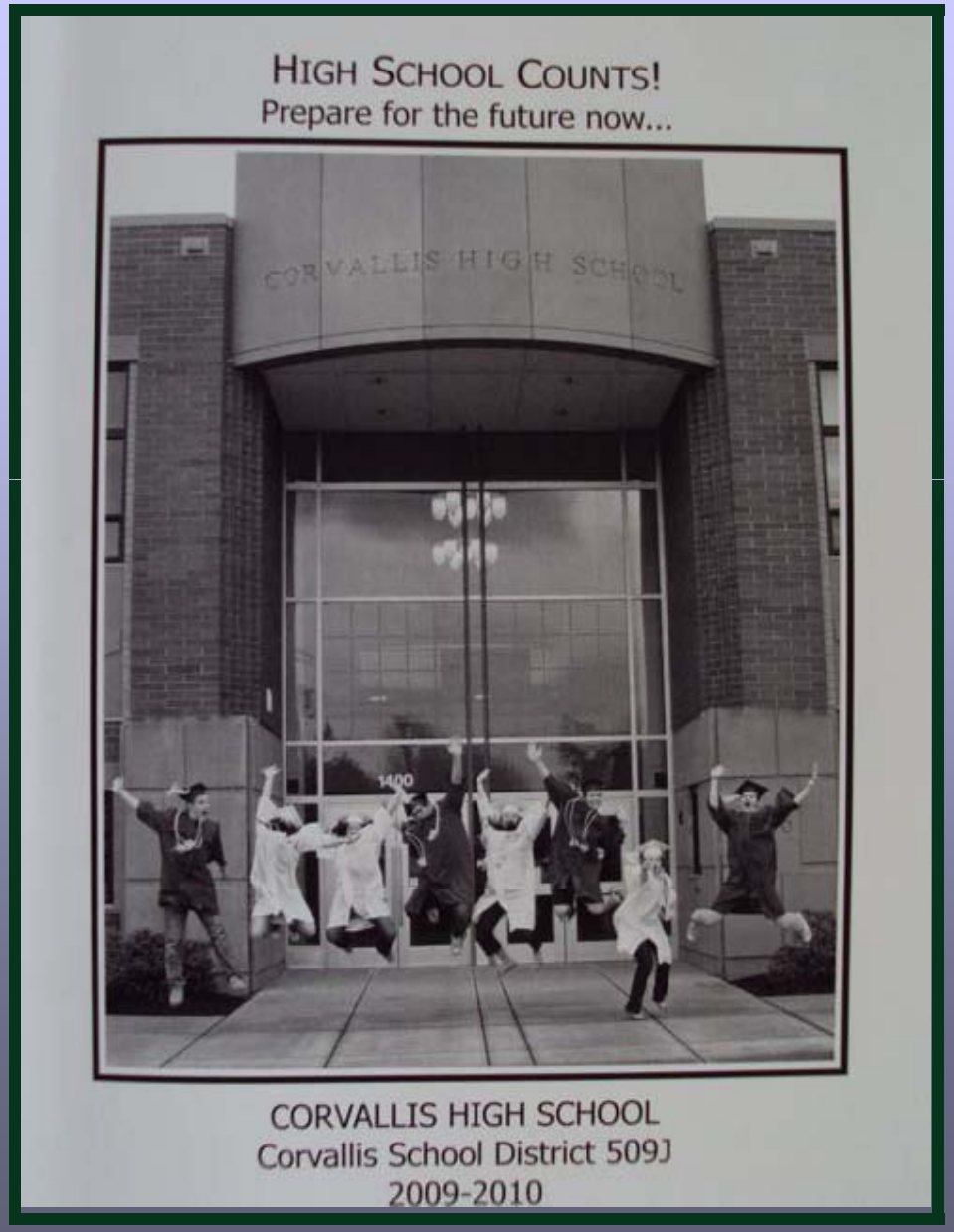
- Identify and adopt sustainability learning power standards
- Designate where each standard will be taught (grade level, subject area)
- Determine which standards are addressed with current curriculum
- Develop and adopt additional curricular materials to fully cover standards
- Train teachers around standards and where they are to be taught (grade, subject)
- Train teachers in use of new curricular materials
- Make teachers aware of additional resources for sustainability education, particularly community partners (Dream Team)

School District web page for Sustainability:



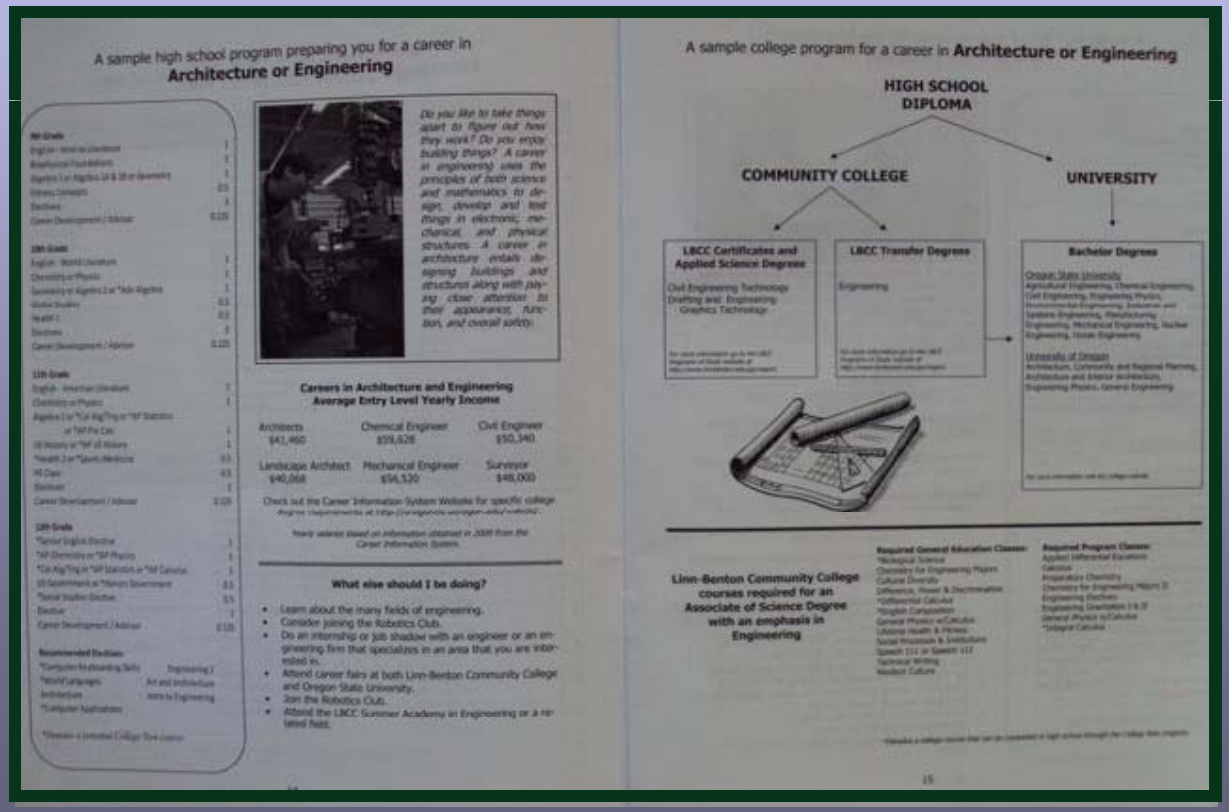
http://www.csd509j.net/key%20initiatives/Sustainability/index.html

High School Counts-- graduation requirements



High School Counts:Sample page

Architecture & Engineering



A sample high school program preparing you for a career in **Architecture or Engineering**

Do you like to take things apart to figure out how they work? Do you enjoy building things? A career in engineering uses the principles of both science and mathematics to design, develop and test things in electronic, mechanical, and physical structures. A career in architecture entails designing buildings and structures along with paying close attention to their appearance, function, and overall safety.

Careers in Architecture and Engineering
Average Entry Level Yearly Income

Architects $41,460	Chemical Engineer $59,628	Civil Engineer $50,340
Landscape Architect $40,068	Mechanical Engineer $56,520	Surveyor $48,000

Check out the Career Information System Website for specific college

Yearly salaries based on information obtained in 2009 from the Career Information System.

What else should I be doing?

- Learn about the many fields of engineering.
- Consider joining the Robotics Club.
- Do an internship or job shadow with an engineer or an engineering firm that specializes in an area that you are interested in.
- Attend career fairs at both Linn-Benton Community College and Oregon State University.
- Join the Robotics Club.
- Attend the LBCC Summer Academy in Engineering or a related field.

A sample college program for a career in **Architecture or Engineering**

HIGH SCHOOL DIPLOMA

COMMUNITY COLLEGE — **UNIVERSITY**

LBCC Certificates and Applied Science Degrees

Civil Engineering Technology
Drafting and Engineering Graphics Technology

LBCC Transfer Degrees

Engineering

Bachelor Degrees

Oregon State University
Agricultural Engineering, Chemical Engineering, Civil Engineering, Engineering Physics, Environmental Engineering, Industrial and Systems Engineering, Manufacturing Engineering, Mechanical Engineering, Nuclear Engineering, Ocean Engineering

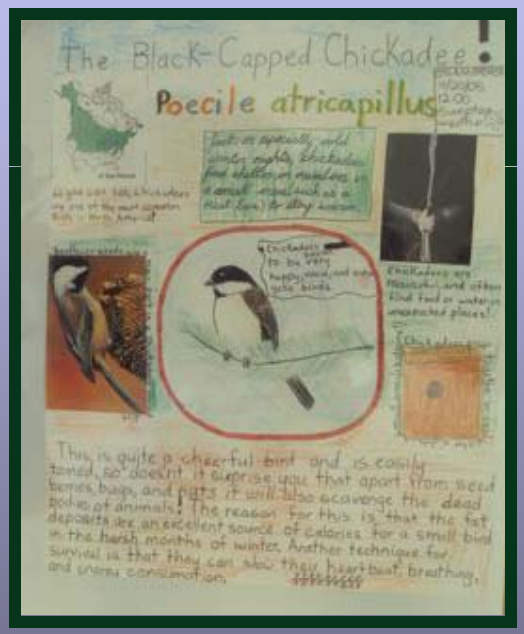
University of Oregon
Architecture, Community and Regional Planning, Architecture and Interior Architecture, Engineering Physics, General Engineering

Linn-Benton Community College courses required for an Associate of Science Degree with an emphasis in Engineering

Required General Education Classes:
*Biological Science
Chemistry for Engineering Majors
Cultural Diversity
Difference, Power & Discrimination
*Differential Calculus
*English Composition
General Physics w/Calculus
Lifetime Health & Fitness
Social Processes & Institutions
Speech 111 or Speech 112
Technical Writing
Western Culture

Required Program Classes:
Applied Differential Equations
Calculus
Preparatory Chemistry
Chemistry for Engineering Majors II
Engineering Electives
Engineering Graphics I & II
General Physics w/Calculus
*Integral Calculus

Examples of Integration into Curricula



- **Internship**
- **Student Learning Projects**
  - **No idling**
  - **Solar panels**
  - **Oregon Green Schools**
- **SPARKS**
- **Foss Science Kits**

Advantages to Becoming a Sustainable School District

- Preserving the world for future generations.
- Financial savings.
- Students asking for it.
- An opportunity to simplify and become more efficient.
- Health benefits.