



LIBERTY HIGH SCHOOL SUSTAINABLE DESIGN

INSTRUCTOR:

KEVIN CRABTREE

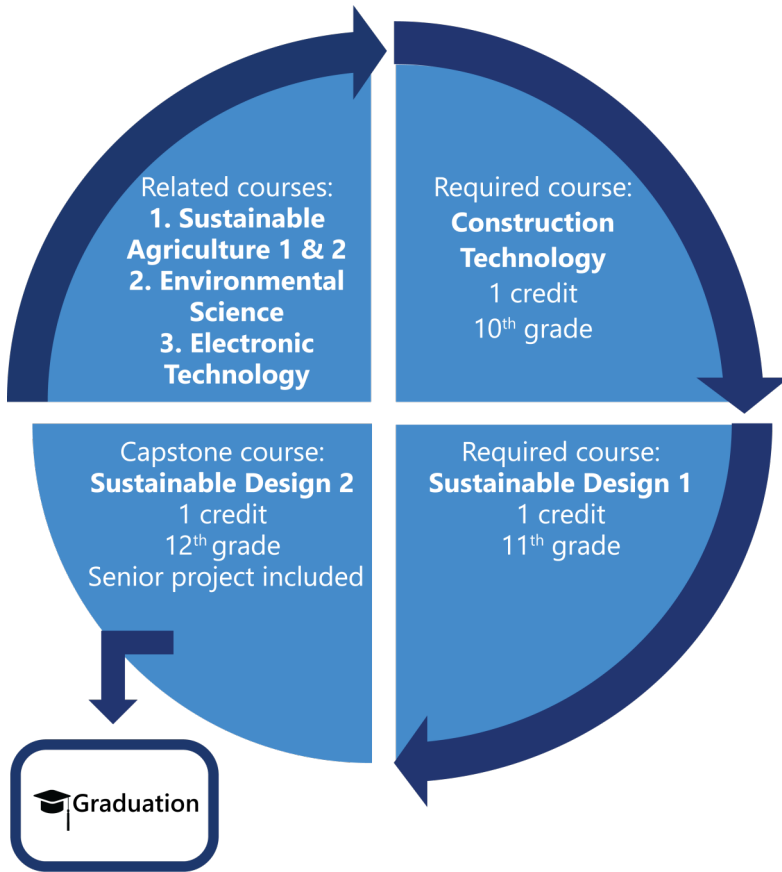
crabtrek@hsd.k12.or.us

For students interested in:

- Green Building Design (Architecture)
- Mechanical/ Electrical Engineering
- Construction
- Renewable Energy
- Industrial Design
- Civil Engineering

SEQUENCE OF COURSES

Please refer to HSD course catalog for more information



PATHWAY TEACHES

STUDENTS TO:

- Use basic wood and metal construction and fabrication processes
- Use arc and MIG welding, hydraulic and pneumatic basics, blueprints, building frame layout electricity, plumbing and concrete
- Learn basic design processes, including planning, prototyping, fabricating, testing and revising sustainable small structures and devices
- Understand the rationale for using sustainable materials, as well as water and energy efficiency
- Apply sustainable building concepts with hands-on building projects
- Complete a project in support of structures and systems related to the Falcon Farm

CAREER POSSIBILITIES & SALARY RANGES

• Engineer	\$58,947- \$170,539
• Landscape Architect	\$48,402- \$110,094
• Interior Designer	\$50,232- \$104,686
• Environmental Specialist	\$66,539- \$129,314
• Urban Planner	\$81,058- \$118,768
• Industrial Designer	\$69,472- \$123,386
• Renewable Energy Consultant	\$66,539- \$129,314

**Salary ranges shown are from the 10th to 90th percentile*

SOME LOCAL COLLEGES & MAJORS

- **PCC**– Associate of Science: Architectural Design and Drafting or Renewable Energy Systems
- **U of O**– Bachelors of Science: Product Design
- **OSU**– Bachelors of Art: Renewable Materials– Art & Design, Bachelors of Science: Sustainability or Environmental Engineering
- **WOU**– Bachelors of Science: Sustainability
- **Clackamas Community College**– Associate of Applied Science: Computer-Aided Manufacturing

POTENTIAL LOCAL EMPLOYERS

- **Cascade Systems Technology**
- **Ultimate 3D**
- **Summit Manufacturing**
- **R&D Plastics**
- **Satis & Fy**
- **Brix Paving**
- **Sagebuilt Homes**
- **Paulson Flooring**
- **Parr Lumber**
- **Turner Construction**
- **Swinerton Builders**

To learn more about career and college opportunities, make an appointment with your counselor 503-844-1250