



LIBERTY HIGH SCHOOL SUSTAINABLE DESIGN

INSTRUCTOR:

KEVIN CRABTREE

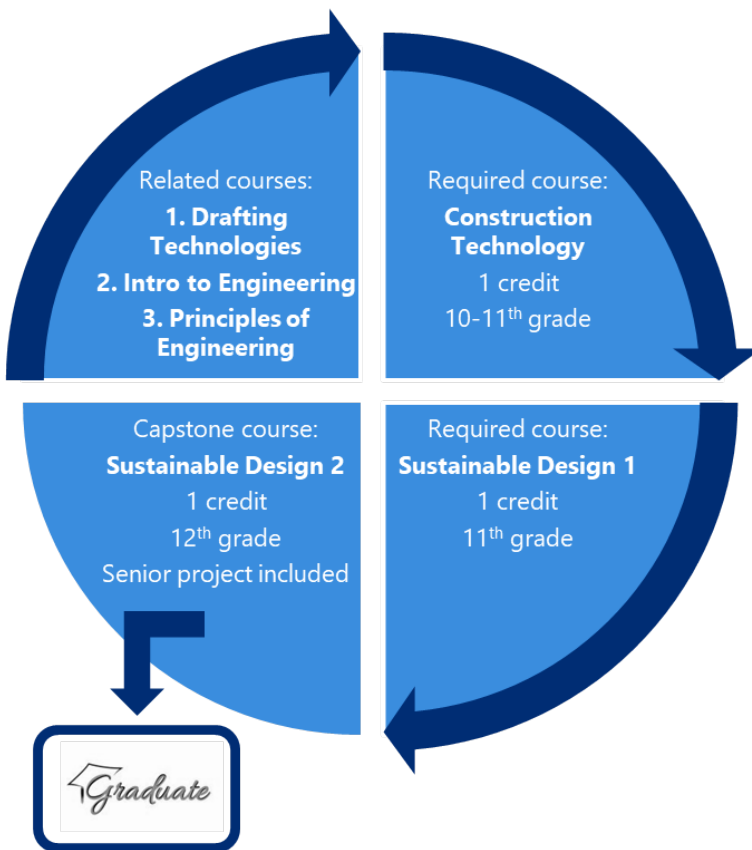
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For students interested in:

- 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	\$72,259- \$106,683
• Landscape Architect	\$41,890- \$81,880
• Interior Designer	\$38,147- \$63,274
• Sustainability Coordinator	\$53,432- \$100,500
• Urban Planner	\$66,518- \$93,704
• Industrial Designer	\$54,851- \$68,769
• Renewable Energy Consultant	\$35,438 - \$86,782

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