

Sustainable Engineering

Attributes of Successful Placement include:

- Understanding of Computer Operations and File Management, Microsoft Office
- Good foundation of math
- Good Attendance
- Independent contributor to group projects
- Basic knowledge of electrical components
- Hands-on worker

Program Requirements

- Flash Drive
- Three-Ring Binder
- Basic school supplies (i.e., pen, pencil, paper, etc.)

High School Credits Earned

- 1.0 Engineering
- 1.0 Engineering-Based Technical Math
- 1.0 Computer Science

Whatcom Campus

Meridian High School
194 West Laurel Road
Bellingham, WA 98226

According to the U.S. Bureau of Labor and Statistics, the projected growth in the environmental sector of engineering will experience the greatest growth throughout this decade.

Occupational Outlook Handbook, 2010-11 Edition



The Northwest Career & Technical Academy's Sustainable Engineering program is a year-long satellite program offered on the Meridian High School campus. The Sustainable Engineering Academy is ideal for high school students interested in engineering, engineering technology, architecture, and design careers. Students will experience real world, hands-on technical training, taught by industry professionals, which will introduce them to structural, civil and mechanical engineering, project management CAD de-

sign programs, renewable energy systems and prototype printing with 3D printers. Students will have access to two wind turbines, solar power equipment, land surveying equipment, CAD software, and project management standards providing hands-on career training.

This program combines applied coursework in mechanical, civil, and renewable engineering technology with theory-based coursework in wind power, solar power, methane capture, geo-thermo, and micro-hydro power production. Basic sustainable techniques in manufacturing and design are embedded into all areas of study. Students are also exposed to a variety of practicing professional engineers through guest engineer lectures and site visits.

Post-Secondary Training and Education

At the Academy, qualifying high school students have the opportunity to earn up to 12 Tech Prep College credits through Bellingham Technical College.

Students have the choice to earn 20 college credits directly with the Washington Engineering Institute if they choose to attend this post-secondary option.

Job Market Ready

Students who successfully complete the program are able to seek work in land surveying, and project management. Students also may want to explore apprenticeship programs in the electrical or renewable engineering fields.

