



"Home of the Falcons"

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Dear eighth grade parent:

One of the many new opportunities available to your son or daughter next year is participation in the first course of the premier national engineering program: Project Lead The Way. The freshman course Engineering Design is summarized below and in the Bow High School Program of Studies. In addition to earning Bow High School graduation credit and required ICT credit, students are eligible to earn college credit with transcript through Rochester Institute of Technology or New Hampshire Technical Institute. Typical BHS engineering students are interested in some combination of science, technology, engineering and math (STEM) and in using some of the most advanced technology in high schools to solve problems with a hands-on approach. Students work independently or in small groups at their own pace with limited whole-group instruction. Those who successfully complete activities before classmates, **do NOT need to wait for classmates to catch up** and are challenged to complete additional in depth work based on THEIR interests.

THIS COURSE IS **NOT** JUST FOR STUDENTS WHO KNOW THEY WANT TO BE ENGINEERS.

Engineering Design *

Foundation Course

1 MSTB Credit

Concurrent Enrollment Option Available After Completing this Course and the Next in the Sequence

Recommended Sequence: Course 1

Typical Prerequisite(s): Completion of or Current Enrollment in Integrated Algebra I.

Students learn and use a professional design process and the latest version of an industry standard computer aided design (CAD) program, Autodesk Inventor, to design a solution for a problem of their choice. A professional quality 3D printer, Dimension BST 768, produces their design in durable ABS plastic. The design process is documented in a professional portfolio suitable for higher education and employment. In addition to including approximately half of the PLTW IED course content, Engineering Design challenges students to complete additional related, extended projects of interest which may include but are not limited to participation in robotics.

You are encouraged to attend a brief informational meeting for parents of 8th grade students in the Bow High School auditorium on Wednesday January 27 at 5:30 PM (Snow Date – the following day). The freshman engineering course and program will be presented with time for questions. The presentation will end in time to hear the Grade 8 BHS Information meeting at 6:30 PM. Please feel free to contact the teachers below if you have any questions.

Wednesday January 27 - 5:30 PM - Bow High School Auditorium - Engineering Informational Meeting

Wednesday January 27 - 6:00 PM - Bow High School Auditorium - Grade 8 High School Informational Meeting

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Successful, Confident, Respectful Innovators – BHS Engineering