FOUNDATIONS OF TECHNOLOGY II
2013-2014

Course Description:
This course will advance students' knowledge of technologies experienced in Foundations of Technology I. Students will gain an understanding in various course segments including robotics, CNC machining, pneumatics, 2D CAD, AC/DC electronics, electrical control and limited research into industrial applications of technology. Experiences will help prepare students for collegiate engineering and technical programs.

Course Content:
Team Concepts
Machine Tool Safety
Project Design
Integrated Technology Concepts (ITC): Desktop Publishing, Pneumatics, AC/DC Electricity, Electrical Control, Robotics, Computer Aided Design (CAD), Mechanical Systems
Manual Machine Tools, CNC Machines

Required Textbooks and/or Other Reading/Research Materials

Pennsylvania Department of Education Recommended Lab Safety Procedures Manual
Amatrol Integrated Learning Units

Course Requirements:
All students must understand and follow classroom safety policies. Students are expected to come to class prepared with all necessary materials and complete all assignments on time. Each student is required to complete all projects, assignments, and tests. Failure to do so will affect the student's grade. If you are absent for any reason, it is your responsibility to see your teacher for missed work. Please refer to the policy in the student handbook for timelines to make up missed work and tests.

Grade Components/Assessments:
Grades will be based on a point system that will be converted into overall percentages (student's total earned points divided by the total possible points). Graded items may include assignments, projects, tests/quizzes, preparation, and participation.

Each marking period is worth 20% of a student's overall grade. The midterm and final exam are each worth 10% of a student's overall average:

Quarter 1	20%
Quarter 2	20%
Midterm	**10%**
Quarter 3	20%

Quarter 4	20%
Final	**10%**

<u>Required Summer Reading/Assignments</u>:
No summer reading/assignments are required for this course