



Southern Lehigh School District

High School Syllabus

FOUNDATIONS OF TECHNOLOGY II

2014-2015

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 categories: Cumulative Assessments 20%, Class Participation 20%, Projects/Coursework 60%.

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

Quarter 1	20%
Quarter 2	20%
Quarter 3	20%
Quarter 4	20%

Final **20%**

Required Summer Reading/Assignments:

No summer reading/assignments are required for this course