



# Southern Lehigh School District

High School Syllabus

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## MANUFACTURING TECHNOLOGY

2014-2015

### Course Description:

This course is an introductory study of manufacturing systems technology, which provides hands-on application of materials processes, woodworking techniques and safety through the use of a manufacturing system. Students may form a corporation, sell stock, design and create a prototype, apply appropriate production engineering processes, and market the product they've created. Topics also covered include the history of manufacturing, types of manufacturing, manufacturing materials, and a corporate structure. A lab fee will be assessed for this course.

### Course Content:

Define manufacturing and manufacturing sector components  
Product Design and Development  
Machine Tool Safety  
Computer Aided Drafting and Design  
Advanced Materials Processes  
Design of prototypes and production tools  
Mass Production

### Required Textbooks and/or Other Reading/Research Materials

Pennsylvania Department of Education Recommended Lab Safety Procedures Manual  
*Manufacturing Technology* by Robert Daiber and Thomas Erikson. Glencoe, 1991.  
Various wood working magazines and internet resources

### 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