



MANUFACTURING TECHNOLOGY

2013-2014

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 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%

Required Summer Reading/Assignments:

No summer reading/assignments are required for this course