

**Dept: Technology Education Course Title: Manufacturing Technology Course #: 721**

**DESCRIPTION OF COURSE:** Students will use the latest technology for designing products from various materials, prototype and test the design for function. Computer Aided Design and Computer Controlled processes will be used to explore the concepts and strategies needed for technological problem solving and career exploration. This course will emphasize the importance of communication (written and verbal), and interpersonal skills to problem solve and succeed in a technological society.

<b>REQUIRED TOPICS OF STUDY</b>	<b>SUGGESTED INSTRUCTIONAL TIME</b>	<b>STANDARDS/ ASSESSMENT ANCHORS</b>
1. Safety: General and machines	Continuous	3.5.12.C
2. Hand Tools	One Week	3.6.12.A
3. Product Design	One Week	3.6.12.B
4. Manufacturing sequence	One Week	3.7.12.B
5. Marketing	One Week	3.9.12.B
6. Jig and Fixture design	Continuous	3.9.12.C
7. Individual student designed and prototyped product	4 Weeks	3.5.12.C
8. CAD Auto Cad software	One Week	3.4.7.10 B

**INSTRUCTIONAL RESOURCES:**

Magazines “Wood”,  
Instructional and safety Videos