

Department: Business

Course Title: Industrial Business Technology

Course #: 701

DESCRIPTION OF COURSE: Students will experience a multitude of industrial technology systems, including basic electronics, hydraulics, CAD, pneumatics, fiber optics, technical drawing, computerized machining process, aviation, power production and transmission, simple machines, robotics and material testing. Student progress will be measured through the completion of individualized self-paced modules. Evaluations will be based on lab reports, quizzes, tests computer programs and drawings. Students will acquire basic skills in keyboarding, word and document processing, and Internet research. They will learn the basics of computer hardware, software and Windows 95. They will demonstrate their skills through production of structured documents.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ASSESSMENT ANCHORS
Keyboarding Review and Proficiency	Daily	3.7.10-C; 3.7.10-D
Learning Computer Concepts	3 weeks	3.7.10-C; 3.7.10-D; 3.7.10-E
Internet Activities and Projects	Throughout course	3.7.10-E
Word Processing	3 weeks	3.7.10-C; 3.7.10-D
Spreadsheet/Database	1 week	3.7.10-D
PowerPoint	2-3 days	3.7.10-D

INSTRUCTIONAL RESOURCES:

Software- Microsoft Word, Microtype Pro, Microsoft Excel, Microsoft PowerPoint

Textbook- Learning Computer Concepts, DDC Publishing
Computer lab, SmartBoard

Dept: Technology Education

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REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ASSESSMENT ANCHORS
1. Aviation	Five Days	3.4.10A 3.7.10C
2. CAD	Five Days	3.4.10B 3.7.10D
3. CNC Machine programming and control	Five Days	3.4.10C 3.8.10A
4. Electronics – Meters, Production and control	Five Days	3.6.10A 3.8.10B
5. Mechanisms- Gear ratios, Levers, Mechanical Advantage, Pulley Systems	Five Days	3.6.10B 3.8.10C
6. Fluid Power Systems - Control , Transmission, Input, Output devices	Five Days	3.6.10C
7. Robotics- Applications, Programming, Nomenclature	Five Days	3.7.10A
8. Hydro-electric Power- Control, uses, circuits	Five Days	3.7.10B
9. Technical Drawing	Five Days	3.7.10C
10. Engineering Design	7 Days	3.8.10B

INSTRUCTIONAL RESOURCES:

Lab Manuals

Instrument Trainers

Video Tapes

Software

Course Title/ct
3/07 FOR HS