

NORTH HIGH SCHOOL COURSE SYLLABUS

COURSE: HOME MECHANICS

INSTRUCTOR: IND. TECH. STAFF

PREREQUISITE: NONE

NEXT COURSE IN SEQUENCE: NONE

LAB FEE: \$12.00

INTRODUCTION/OVERVIEW:

THIS COURSE IS DESIGNED TO INSTRUCT AND INFORM YOU ABOUT BASIC HOME CONSTRUCTION AND MAINTENANCE. ALTHOUGH BASICALLY EXPLORATORY IN SCOPE THE COURSE WILL INVOLVE THE STUDENT IN THE FOLLOWING AREAS: HAND AND POWER TOOLS SELECTION AND USAGE, FASTENERS AND MATERIALS, HOUSE STRUCTURAL COMPONENTS, DEVELOPMENT OF FLOOR PLAN ON CAD, FOOTING AND FOUNDATION, CONSTRUCTION, ELECTRICAL DISTRIBUTION SYSTEM, ENERGY CONSERVATION, HEATING AND COOLING SYSTEMS, CONCRETE AND MASONRY AND BASIC HOME REPAIR.

OBJECTIVES:

THIS INDUSTRIAL TECHNOLOGY COURSE IS DESIGNED TO HELP YOU BECOME:

- ☺ A PURPOSEFUL THINKER ABLE TO UNDERSTAND UP-TO-DATE TECHNOLOGY CONCEPTS AND PRINCIPLES.
- ☺ AN EFFECTIVE COMMUNICATOR WHO CAN EXPLAIN TECHNICAL SYSTEMS AND PROCESSES.
- ☺ A SELF-DIRECTED LEARNER WHO CAN LOGICALLY APPLY UP TO DATE REPAIR PROCEDURES AND OR MANUFACTURING PROCESSES.
- ☺ A RESPONSIBLE CITIZEN CAPABLE OF MAKING INFORMED DECISIONS THAT WILL MAKE THE WORLD A BETTER PLACE.

COURSE OUTLINE:

CLASSROOM PROCEDURES
GENERAL SAFETY
TOOLS/BASIC FASTENERS
HOUSE STRUCTURAL COMPONENTS
FLOOR PLAN USING CAD (COMPUTER AIDED DRAFTING)
FOOTING AND FOUNDATION
FLOOR JOIST AND SUBFLOOR
FRAMING COMPONENTS
ELECTRICAL DISTRIBUTION SYSTEM
ROOF TRUSSES AND RAFTERS
ROOFING MATERIALS, FACIA AND SOFFIT

EXTERIOR AND INTERIOR FINISHES

CLASSROOM/LABORATORY EXPECTATIONS:

OPERATION PROCEDURES:

EACH STUDENT WILL:

- ABIDE BY ALL MACHINE TOOL SAFETY RULES**
- PROVIDE AND WEAR SAFETY GLASSES**
- PASS ALL SAFETY TESTS**
- COMPLETE A DAILY CLEAN-UP ASSIGNMENT**
- FOLLOW ALL CLASSROOM ASSIGNMENTS**
- FOLLOW ALL CLASSROOM RULES**
- BRING A PENCIL AND NOTEBOOK TO CLASS**
- BE QUIET AND ATTENTIVE DURING LECTURES AND TESTS**

ATTENDANCE:

STUDENTS ARE EXPECTED TO COMPLY WITH ALL ATTENDANCE POLICIES AS ESTABLISHED BY BUILDING ADMINISTRATION. PARTICIPATION IS AN IMPORTANT PART OF YOUR GRADE. IT IS THE STUDENTS RESPONSIBILITY TO MAKE-UP ALL MISSED WORK.

TARDY POLICY:

STUDENTS ARE EXPECTED TO BE IN THEIR SEATS WHEN THE BELL RINGS. IN EVENT THAT DOES NOT HAPPEN THEN THE FOLLOWING IS OUR TARDY POLICY:

1ST & 2ND TARDY VERBAL WARNING

3RD TARDY THE STUDENT AND PARENT WILL BE NOTIFIED THAT THE NEXT TARDY WILL RESULT IN A "AFTER SCHOOL DETENTION"

4TH TARDY "AFTER SCHOOL DETENTION"

SAFETY:

STUDENTS ARE EXPECTED TO COMPLY WITH ALL SAFETY PROCEDURES. REPEATED FAILURES

ASSESSMENT PROCEDURES

STUDENTS EARN THEIR GRADES BASED UPON THE NUMBER OF POINTS ACQUIRED:

REQUIRED PROJECTS	50%
WRITTEN ASSIGNMENTS, TESTS	25%
PARTICIPATION	25%

90%	A
80%	B
70%	C

60% D