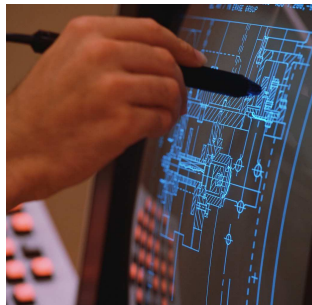




**Academy**  
of Learning



# DRAFTING DESIGN TECHNOLOGY



## COURSE DESCRIPTIONS

### DRAFTING I 3 HOURS/CREDITS

AN INTRODUCTORY COURSE IN TECHNICAL DRAWING USING AUTOCAD (COMPUTER AUTOMATED DRAWING) AS THE MAIN DRAWING SYSTEM. THE COURSE WILL COVER BASIC DRAWING SKILLS WITH EMPHASIS ON ENGINEERING AND ARCHITECTURE. DRAWING PROJECTS WILL INCLUDE TECHNICAL DRAWINGS, ARCHITECTURAL PLANS, DRAWING LAYOUT SKILLS, AS WELL AS INDIVIDUAL STUDENT PROJECTS.

### DRAFTING II 3 HOURS/CREDITS

AN INTERMEDIATE COURSE IN TECHNICAL DRAWING FOCUSING ON DRAFTING DISCIPLINES IN ENGINEERING AND ARCHITECTURE. USING AUTOCAD STUDENTS WILL CREATE DETAILED PROJECTS RELEVANT TO INDUSTRY PRACTICES IN STRUCTURAL, CIVIL, PIPING, AND ELECTRICAL ENGINEERING AS WELL AS VARIOUS ARCHITECTURAL PROJECTS. UPON COMPLETION OF DRAFTING I AND II STUDENTS WILL BE ELIGIBLE TO TEST FOR ADDA DRAFTER CERTIFICATION (AMERICAN DRAFTING AND DESIGN ASSOCIATION).

### DRAFTING III 3 HOURS/CREDITS

THIS COURSE WILL FOCUS ON ENGINEERING OR ARCHITECTURE, THE STUDENT'S CHOICE, AND WILL HAVE A MORE IN DEPTH APPLICATION OF AUTOCAD, INCLUDING 3-D DRAWING.

## STUDENT PROJECTS

RESIDENTIAL PLANS AND ELEVATIONS

BASEBALL PARK DESIGN

DESIGN AND BUILD CATAPULTS

DESIGN AND BUILD EGG DROP VESSELS

RESIDENTIAL LOT AND LANDSCAPING DESIGN



## FUTURE CAREER OPTIONS

### DRAFTERS

DRAFTERS TRANSLATE DATA AND SKETCHES FROM AN ENGINEER OR ARCHITECT INTO DETAILED DRAWINGS TO BE USED IN MANUFACTURING AND CONSTRUCTION. A 2 YEARS ASSOCIATES DEGREE IS REQUIRED.

### ENGINEERING

ENGINEERS PLAN, CALCULATE, AND CREATE THE DESIGNS FOR THE WORLD AROUND US. ELECTRICAL, STRUCTURAL, CIVIL, PIPING, AERONAUTICAL, GEOLOGICAL, AND CHEMICAL ARE JUST SOME ENGINEERING DISCIPLINES AVAILABLE AS A CAREER CHOICE. A 4 YEAR BACHELORS DEGREE IS REQUIRED.

### ARCHITECTURE

ARCHITECTS DESIGN THE BUILDINGS WE USE EVERYDAY AND THE HOMES WE LIVE IN. A 5 TO 6 YEAR DEGREE IS REQUIRED TO BECOME A LICENSED ARCHITECT.

