

Design Drafter Technology (DDT)

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113 [IT 113]. Architectural Drafting. Credit 3 hours. Prerequisite: Industrial Technology 111. Principles and practices of architectural drawing, terminology, and construction through residential planning and design, including floor plans, elevations, sectional details and plat plans. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

114 [TIM 114]. Technical Illustration. Credit 3 hours. Prerequisite: Industrial Technology 111 and Industrial Technology 215. The transmission of engineering drawings into three-dimensional drawings using principles and techniques of axonometric, perspective, and schematic drawing. Includes lettering, reproduction methods, color rendering, air brush techniques and various mechanical aids. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

211 [TIM 211]. Piping Drafting. Credit 3 hours. Prerequisite: Industrial Technology 111. Piping fundamentals as used in refinery and petrochemical plant design. Drafting of pipes, fittings, flanges, valves, symbols and dimensioning. Isometric standard detailing, call-outs, and structural foundations. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

212 [TIM 212]. Machine Drafting and Design. Credit 3 hours. Prerequisites: Industrial Technology 112 and Design Drafter Technology 114 [TIM 114]. Advanced study and applications of detailed and assembly drawings of machines, including precision dimensioning and tolerancing; ASA specifications and symbols; notes, call-outs, material lists, treatments and finishes. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

213 [TIM 213]. Electrical and Electronic Drafting. Credit 3 hours. Prerequisite: Industrial Technology 111. Develop skills in drafting and understanding of drawings used in the electronic industry. Pictorial and production drawings, components, symbols, governmental requirements, design, schematic and block diagrams, printed circuitry and graphical representation. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

214 [TIC 214]. Structural Systems-Drafting. Credit 3 hours. Prerequisite: Industrial Technology 111. Comprehensive study of concrete, steel, and wood structural systems. Application of principles and technology through basic structural drawing as used in industry, manufacturing, construction, engineering, and architecture. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

215 [TIC 212]. Light Commercial Building Drafting. Credit 3 hours. Prerequisites: Industrial Technology 111 and Design Drafter Technology 113 [IT 113]. Analysis and solution of basic problems in the design and construction of small commercial properties using a variety of materials and methods

of construction. Two hours of lecture and two hours of laboratory a week. Laboratory fee: \$15.00.

217 [TIC 217]. Construction Process and Management Fundamentals. Credit 3 hours. Prerequisites: Industrial Technology 111 and Design Drafter Technology 113 [IT 113]. Study of local, state and federal restrictive building codes, construction specifications, construction estimating and the set-up and carrying on of a complete construction project.

218 [TIM 218]. Special Topics in Drafting. Credit 3 hours. Prerequisites: A 2.000 adjusted major average, Sophomore standing and 15 semester hours of drafting or permission of the Department Head. A course designed to provide the student with an opportunity to gain greater specialization in a specific area or to develop skills in areas otherwise not covered in the curriculum. May be repeated for a maximum of six credit hours.

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