

ments, consult the chairman of the department; for general requirements, see *School of Graduate Studies*. For detailed information about the graduate program at Fresno State College, see the *Graduate Bulletin*, available in the Office of the Dean, School of Graduate Studies.

Courses

INDUSTRIAL ARTS AND TECHNOLOGY

Note: Industrial arts and technology courses have been renumbered and regrouped under the following areas: automotive, crafts, drafting-design, electricity-electronics, graphic arts, metals, woodworking, professional, and graduate.

AUTOMOTIVE AREA

IA 12. Basic Automotive Systems (3) (Former IA 9)

Design, construction and mechanical functions of automotive engines, fuel systems, electrical systems, power transmission, brakes, and wheel suspension; proper use and safety of tools and equipment. (lecture-lab)

IA 113. Advanced Automotive Systems (3) (Former IA 109A)

Prerequisite: IA 12, 52. Advanced study of automotive engines, electrical systems, automatic transmissions, brakes, and power transmitting mechanisms; sciences involved with internal combustion, electricity, hydraulics, pneumatics, energy conversion. (lecture-lab; field trips)

IA 114. Automotive Technical Problems (3) (Former IA 116)

Prerequisite: IA 12. Automotive air conditioning, body applications, diesel, fuels and lubricants technology, small horsepower engines and laboratory organization. (lecture-lab; field trips)

IA 124. Automotive Diagnosis and Correction (3) (Former IA 109B)

Prerequisite: IA 12. Automotive testing, servicing and repair processes applied to engine, power transmission, and chassis components. (lecture-lab; technical reports)

IA 129. Automotive Systems Repair Procedures (3) (Former IA 110)

Prerequisite: IA 12. Technology of engine rebuilding, carburetor and electrical service, power transmission, brakes and wheel suspension, body work and tune-up. (lecture-lab; technical reports)

CRAFTS AREA

IA 34. Theatre Craft (3) (See Drama 34)

IA 130. Handwork in Elementary Education (3)

Limited to elementary credential candidates. Introduction to handwork for elementary schools; handwork units correlated with various subjects in elementary curriculum; development and fabrication of teaching aids.

IA 133. Industrial Crafts (2; max total 4) (Former IA 108A-B)

Creative and recreational experiences in craft media including plastics, leather, wood, metal, enamels; historical, cultural, technological information. (lecture-lab)

IA 134. Advanced Theatre Craft (3) (See Drama 134)

DRAFTING-DESIGN AREA

IA 41. Applied Drawing (3) (Former IA 19)

Grammar and composition of drawing, sketching, lettering, orthographic projection, working drawings, auxiliary views, dimensioning, developments, pictorial drawing, and duplication.