

MASTER OF ARTS DEGREE

The graduate program for the master of arts degree in industrial arts is based on the equivalent of the undergraduate major at Fresno State College. Twenty of the 30 units required for the degree must be in industrial arts. For specific requirements, consult the chairman of the department; for general requirements, see *Degrees and Credentials—Master's Degrees and Graduate Bulletin*.

Courses**INDUSTRIAL ARTS**

Note: Industrial arts 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)