

## 132. Architectural Field Study (2) S

Open only to drafting majors. Prerequisite: Ind. Arts 122. Practical drafting experiences in architectural firms; regular conference meetings and reports.

## 134a. Scene Design (3) (See Speech 134a)

## 134b. Stage and Television Lighting (3) (See Speech 134b)

## 150. Materials of Industrial Arts Design (2) F and S

Prerequisite: Ind. Arts 19 or permission of instructor. Selection and use of materials in industrial arts design; organization and experimentation in two- and three-dimensional problems using varied media in industrial arts projects.

## 151. Industrial Arts Projects Design (2) S (Former Ind. Arts 120)

Prerequisite: Ind. Arts 19 or permission of instructor. Form, construction and decoration of wood and metal projects used in industrial arts and technical design.

## 182. Advanced Theater Craft (3) (See Speech 182)

## 190. Independent Study (1-5) F and S (See page 64)

## GRADUATE COURSES

(See page 85)

## 224. Industrial Education Philosophy and History (2)

Evolution, development, and present status of industrial education; industrial education and trade and industrial education; industrial arts in general education; in developing, promoting and improving a program of instruction in industrial education.

## 270. Graduate Technical Problems in Industrial Arts (2-9)

Maximum total credit 9 units, provided no area repeated. Technical work in selected areas; research under supervision of instructor.

## 280. Problems in Industrial Arts Research (2)

Seminar in research procedures in the industrial arts; basic bibliography, research form and method.

## 284. Seminar in Industrial Arts (2-6)

Maximum of 6 units on master's degree, provided areas are not repeated. Advanced study in different phases of industrial arts; recent developments and trends in the various design, drawing, and technical areas of industrial arts.

## 285. School Shop Planning and Organization (2)

Problems in planning and organizing various types of school shops; architectural considerations, selection of equipment, specifications. Visits to schools and buildings under construction.

## 286. Safety and Related Problems (2)

Research and study of safety problems in school shops, home, and community planning specific safety programs for shops, units of shops, and public safety systems.

## 287. Seminar on the General Shop (2)

Prerequisites: graduate standing and 12 units upper division industrial arts. General shop and its place in industrial arts education; organization, advanced limitations; equipment, supplies, safety; subject matter, content, and method of teaching.

## 288. Administration and Supervision of Industrial Arts (2)

Policies and procedures in administration and supervision of industrial arts.

## 290. Independent Study (1-5) F and S (See page 64)

## 299. Thesis or Project (2-4)

Maximum total credit 4 units. Prerequisites: See page 77. Preparation, completion, and submission of an acceptable thesis or project for the master's degree.

## BUSINESS DIVISION

Dur

Division Head \_\_\_\_\_ McKee Fisk

Divisional Administrative

Assistant \_\_\_\_\_ William C. Wayne

The Business Division prepares students for professional careers in the business world and for teaching in secondary schools. The program is designed to provide a knowledge of the principles, procedures and art of business management; an understanding of the role and responsibility of business in present day society; a foundation of basic background materials for participation in the American enterprise system; and such proficiency in technical skills and information as the job market demands.

The division offers bachelor of science degree programs in the three specialized business areas of accounting, business administration, and marketing, and in agribusiness. Bachelor of arts degree programs are offered in secretarial administration; in general business; and in business education leading to special, junior high, and general secondary teaching credentials; minors and special courses to supplement work in other fields.

The master of science degree is designed to provide advanced work in business, particularly in management. The master of arts degree is designed to deepen the competence of teachers of business subjects in secondary schools and junior colleges.

A Bureau of Business Research and Service and an Institute of Industrial Relations are part of the division program. During the regular academic year, the division, in cooperation with the Fresno County and City Chamber of Commerce, publishes a monthly index of business conditions, *Fresno Facts and Trends*.

The Business Division is a member of the American Association of Collegiate Schools of Business.

Accounting  
Agribusiness  
Business Administration  
Business Education  
General Business  
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Teaching Credentials