

THE CURRICULUM: COURSES OF INSTRUCTION

The first digit of a course number refers to academic level of the courses numbered 100 are designated primarily for freshmen; courses numbered 200 for sophomores.

The third digit of a course number refers to the number of semester hours credit given for that course. Thus, History 124 earns for the student four hours credit.

The College reserves the privilege of withdrawing any course for which there is not sufficient enrollment.

COURSE DESCRIPTIONS

ACCOUNTING

Acc 103 / APPLIED ACCOUNTING

3 hours

This course is designed to give the student extensive practice in working with basic accounts, records, and statements.

Prerequisite: none

Acc 113 ACCOUNTING I

3 hours

Basic principles and procedures of business accounting, including debits and credits, journals and ledgers, the balance sheet, and income statements.

Prerequisite: none

Acc 123 ACCOUNTING II

3 hours

A continuation of the study of accounting principles, including cash and investments, receivables, inventory, fixed assets, liabilities accounting principles, manufacturing operations, and the analysis of financial data.

Prerequisite: Acc 113

Acc 133 / INTERMEDIATE ACCOUNTING I

3 hours

A review of the concepts and principles underlying accounting and their application in the accounting process. Valuation procedures and problems are considered for each class of the assets, of the balance sheet and their related effect upon income measurement.

Prerequisite: Acc 123

Acc 143

INTERMEDIATE ACCOUNTING II

3 hours

A continuation of Intermediate Accounting. Valuation procedures and problems are considered for each class of the liabilities and equity section of the balance sheets and their related effect upon income measurement. Various forms of financial statement analysis are also studied along with the opinions of the Accounting Principles Board.

Prerequisite: Acc 133



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Acc 231 1

TAX LAWS AND REPORTING PROCEDURES

1 hour

Laws, procedures, forms and current regulations relating to payroll and sales taxes.

Prerequisite: Consent of the instructor

Acc 243

TAX ACCOUNTING

3 hours

A comprehensive study of the Federal tax structure and the application of the principles involved to specific individual and business tax problems.

business tax problems.

Prerequisite: Acc 123 or consent of the instructor

Acc 253 <

COST ACCOUNTING

3 hours

A study of the job order, process and standard cost systems and the flow of costs in the accounting for materials, labor and overhead in the manufacturing process.

Prerequisite: Acc 123 or consent of the instructor

Acc 263 °

AUDITING

3 hours

The accounting investigative techniques as they apply to the financial statements and internal control, including the procedures for preparation of working papers and the writing of the audit report.

Prerequisite: Acc 123 or consent of the instructor

AIR CONDITIONING: REFRIGERATION AND HEATING

ARH 115 1

AIR CONDITIONING: REFRIGERATION

AND HEATING I

15 hours

Air conditioning: refrigeration and heating training is the preparation of students to become technicians, who, in the course of their future employment will be required to install, maintain, and repair equipment used in domestic, commercial, and industrial applications for human comfort and/or processes. The student will spend 4 hours a day, five days per week in the training program.

Prerequisite: none

ARH 215 "

AIR CONDITIONING: REFRIGERATION

AND HEATING II

15 hours

A continuation of ARH 115. Prerequisite: ARH 115

ARH 291

AIR CONDITIONING: REFRIGERATION

AND HEATING PLACEMENT

1 hour

A course designed to assist Air Conditioning: Refrigeration and Heating students in obtaining jobs suitable to their training and interests.

Prerequisite: Consent of the instructor

Art 102 CRAFTS

2 hous

Course is designed to allow the student to explore a number of different craft areas such as: mosaics, basketry, printmaking, etc. Individual projects will be developed in those areas in which the student has special interests. The course is especially well suited to teachers, parents, and other non-art majors who are interested in developing creative hobbies.

Prerequisite: none

Art 103 COMPOSITION

3 hours

Representational, abstract, non-objective drawings and paintings; space and volume relations; movement and direction of planes in development of visual units of design and their integration in the whole organization; introduction to perspective and light and shade.

Prerequisite: none

Art 113 ART APPRECIATION I

3 hours

A general survey of the artistic activities of man from prehistoric to modern times. Slides and 16mm films are used in conjunction with the course.

Prerequisite: none

Art 123 V ART APPRECIATION II

3 hours

A survey of art history from 1900 to the present, with some studio applications. Selected art movements and techniques will be discussed.

Prerequisite: none

Art 133 INTRODUCTION TO ART

3 hours

An introduction to art through various media and techniques such asdesign, drawing, printmaking, color, shading, sculpture, spaterelationship. Media include ink, cray-pas, plaster, and watercolor. This is a survey course and not recommended for art majors.

Prerequisite: none

Art 143 SCULPTURE I

3 hours

An introduction to sculpture through the use of various media: cardboard sculpture, plastic sculpture, and wood or stone sculpture. Some drawing and research of sculptors and sculpture techniques is required.

Prerequisite: none

Art 153 / DRAWING I

3 hours

An introduction to drawing as an approach to space and form through a variety of methods, both traditional and contemporary. Emphasis will be placed upon analytical seeing as well as familiarization with and control of drawing material. Introduction to perspective and light and dark shades; some texture and other methods will be used for creative drawings.

Prerequisite: Art 103 or consent of the instructor

Art 163

DRAWING II

3 hours

Drawing of the human figure in charcoal, crayon, ink, and other media. Representational, abstract, and non-objective drawings; space and volume relations; movement and direction of planes in space; development of visual units of design and their integration in the whole organization.

Prerequisite: Art 153 or consent of the instructor

Art 173

PAINTING I

3 hours

Introduction to the material and techniques of oil and acrylic painting. Intended to develop technical and expressive abilities. Forms, colors, line, texture, and organization of painting will be studied. Practical application of framing techniques.

Prerequisite: Art 153 or 163 or consent of the instructor

Art 183

PAINTING II

3 hours

Theory and practice of painting using oil and acrylics. Development of form through color and appropriate emphasis on texture. Objective appearance conditioned to meet the requirements of a controlled composition and aesthetic concept. While working with a variety of media, the student will be encouraged to emphasize individual expression.

Prerequisite: Art 173

Art 193

COMMERCIAL ART I

3 hours

Exploration of the basic elements of design as related to commercial art. The application of elements is stimulated by a wide variety of projects. Projects will stress the development of ideas rather than the execution of media.

Prerequisite: none

203

COMMERCIAL ART II

3 hours

Utilization of the principles of design applied to the graphic media. Exploration of the basic elements of design as related to commercial art. The application of elements is stimulated by a wide variety of projects. Projects will stress the development of ideas rather than the execution of media.

Prerequisité: none

Art 213

SCULPTURE II

3 hours

Examination and analysis of traditional and contemporary sculpture. Sculptural design is related to material and techniques such as clay, wood, stone, plaster, and metal.

Prerequisite: Art 143 or consent of the instructor

Art 223 /

DESIGN

3 hours

Exploration of space, line, color, shape, and texture as the basic elements in visual expression. The application of elements is stimulated by a wide variety of projects stressing creative ability.

Prerequisite: Art 103 or consent of the instructor

Art 233 WATERCOLOR 3 hours

The study of watercolor painting with emphasis upon color and composition and pictorial expression; experimentation with value methods of watercolor painting. Studies will include washes and brush control.

Prerequisite: Art 103 or consent of the instructor

Art 243 PRINTMAKING I 3 hours

Lecture and laboratory exercises dealing with history and techniques of printmaking, including the making of prints from material such as wood blocks, cardboard, and linoleum by using surface printing techniques.

Prerequisite: Art 133 or consent of the instructor

Art 263 PRINTMAKING II 3 hours

Laboratory exercises dealing with the techniques of lithography, silkscreen and dry point as a fine printing medium. Emphasis is on individual exploration with materials.

Prerequisite: Art 133, or Art 243, or consent of the instructor

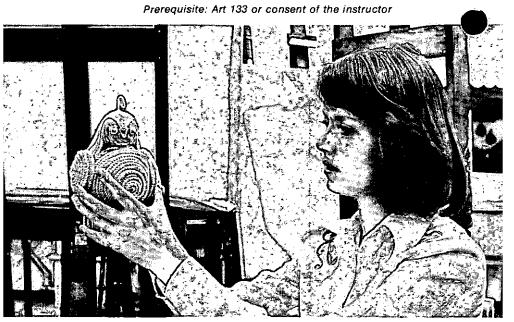
ART 271 DIRECTED STUDIES (HONORS) IN ART 1 hour

The opportunity provides two alternatives. An exceptional art student may pursue: (1) studying or developing independently a specifically prearranged topic or project, within the field of art, (2) develop experience in procedures, processes, and actual presentations of gallery displays.

Prerequisite: Consent of the instructor

Art 273 ART FOR THE ELEMENTARY TEACHER 3 hours

Experience with art materials used in the elementary school and a study of the types of art activities related to various age groups.



AUTO MECHANICS

o 113 ·

ELECTRICAL SYSTEMS

3 hours

An advanced study of the automobile electrical systems. Beginning with a comprehensive study of direct-current theory, the module directs itself to application of the theory to the understanding of the automobile starting, charging, and ignition systems. Lab and shop work in this module concentrates on trouble-shooting and repair of auto electrical systems and components.

Prerequisite: none

Auto 122 CARBURETION AND

FUEL SYSTEMS

2 hours

A detailed study of the principles and theory of carburetion and fuel system on the modern automobile. Includes shop work on overhauling, servicing, and adjustment of fuel system components. Special emphasis is placed on recent changes in fuel system design, manufacture, and servicing due to federal and state air pollution legislation.

Prerequisite: none

Auto 131 "TUNE-UP

1 hour

A detailed study of the relationships between the carburetion system, ignition system, and the mechanical parts of the engine. Subsequent shop work will include the use of the "Sun Scope" and analyzer.

Prerequisite: Auto 112 and 122

Auto 151 SUSPENSION SYSTEMS

1 hour

A comprehensive study of coil and leaf-spring type suspension systems and the various configurations of each. Steering and shock absorber designs will also be covered in this module, along with the diagnosis and repair of common steering and suspension components.

Prerequisite: none

Auto 162 🖟

WHEEL ALIGNMENT AND BALANCE

2 hours

Study in this module will concentrate on tire and tread design, tire and wheel assembly balance, and front-end alignment procedures. Shop work will include tire repair, diagnosis of wheel alignment and balance problems from tire wear patterns, and adjustment and repair of suspension systems, and operation of wheel alignment and balancing equipment.

Prerequisite: Auto 151

Auto 172 -

BRAKES

2 hours

The study of hydraulic brake systems, both power-assisted and non-power assisted. Disc and drum brake systems will both be covered in detail, along with brake repair procedures. Shop work will include brake servicing and replacement procedures, disc and drum service to hydraulic master and wheel cylinder assemblies.

Auto 182 7

AUTOMATIC TRANSMISSIONS

2 hours

A detailed study of the theory, operation, and repair of autom transmissions. This module will begin with a complete study planetary gear trains and their operation, hydraulic theory as applied to fluid couplings, and clutch theory and operation. Subsequent shop work will concentrate on removal, disassembly, overhaul, and replacement of automatic transmission assemblies. Special emphasis will be placed on diagnosis of automatic transmission problems.

Prerequisite: none

Auto 191

STANDARD TRANSMISSIONS

1 hour

A study of three and four speed standard transmissions including clutches and clutch designs. Shop work will concentrate on clutch replacement, shift linkage design and adjustments, and transmissions disassembly and repair procedures. The theory of gear design and ratios will be studied in great detail.

Prerequisite: none

Auto 201

DRIVE LINES AND DIFFERENTIAL

1 hour

A study of the transmission of power from the transmission to the wheels of the modern vehicle. Shop work will concentrate on drive shaft service, adjustment and replacement of differential bearings and parts (including limited slip differentials), and diagnosis of vibration and axle noise problems.

Prerequisite: none

Auto 211

AIR CONDITIONING

1 hour

Beginning with a study of refrigeration and cooling theory, this module will concentrate on the diagnosis and repair of common automotive air conditioning problems. Shop work will include the checking and charging of air conditioning systems, as well leak-detection procedures and correction of common compressor problems.

Prerequisite: none

Auto 232

ENGINES

2 hours

A detailed study of the gasoline-powered internal-combustion engine. Emphasis will be placed on procedures for repair and replacement of engine parts and components, engine cooling systems, and valve train assemblies. Engine overhaul and machine procedures will be discussed in detail, and shop work will include the disassembly, measuring, and reassembly of engine components.

Prerequisite: Auto 112 and 122

Auto 291 3

AUTO MECHANICS PLACEMENT

1 hour

A course designed to assist auto mechanics students in obtaining jobs suitable to their training and interests.

BIOLOGICAL SCIENCE

102

PERSONAL AND COMMUNITY HYGIENE

2 hours

A general course designed to develop proper attitudes and practices which will contribute to the fine art of living. Health problems which require community action are given consideration.

Prerequisite: none

Bio 115

GENERAL BIOLOGY

5 hours

An introductory course involving fundamental biological principles of both plant and animal life. It is designed to be used as a general education requirement. Not open to students with credit in botany or zoology or students expecting to major in the biological sciences. Three hours of lecture and two two-hour laboratory periods per week.

This course is intended as a general education course and not recommended for a life science major.

Prerequisite: none

Bio 145

GENERAL ZOOLOGY

5 hours

A survey of the animal kingdom, animal structure, life processes, development, ecology, and the evolution of animals. Laboratory will include structure and taxonomic relationships as shown by dissection of representatives of the various animal groups. Three one-hour lecture recitation periods and two two-hour laboratory periods per week.

This course should be taken by people majoring in the life sciences.

Prerequisite: none

Bio 155 1

GENERAL BOTANY

5 hours

An introduction to the plant kingdom, structure, physiology, life histories, economic importances, and the evolution of plants. Laboratory will include experimentation and observation to verify and enhance classroom lecture and recitation. Three one-hour lecture recitation periods and two two-hour laboratory periods per week.

Prerequisite: Bio 115 or Bio 145

Bio 202 V

GENETICS

2 hours

A study of the principles of heredity and biological evolution as applied to plants and animals.

Prerequisite: either Bio 115, Bio 145 or Bio 155

Bio 225

FIELD BIOLOGY

5 hours

An introduction to structure and functions of ecosystems. Abiotic and biotic interrelationships; energetics; population dynamics; community structure and regulation; biogeography and succession. Provides a background in field techniques. Three one-hour lecture recitation periods and two two-hour laboratory periods per week.

Prerequisite: none (Bio 115 or Bio 145 is recommended)

Bio 234

HUMAN ANATOMY AND PHYSIOLOGY I

4 hours

This is a two semester course where gross micro and macroscopianatomy is studied while the function of the respective structures studied. The normal state is studied and the abnormal state is studied only to explain points in the normal state of the human body. The first semester includes integument, skeletal, muscular and nervous systems. Two lectures and two two-hour labs per week.

Prerequisite: Bio 115 or Bio 145. College courses in Math and Chemistry are useful.

Bio 235 HUMAN ANATOMY AND PHYSIOLOGY II

5 hour

Human Anatomy and Physiology II is part II of a two semester study. Systems studied are digestive, respiratory, circulatory, and urogenital. Sequencing of I and II is not important. The student may take Human Anatomy and Physiology II before I. Two lectures and three two-hour labs per week.

Prerequisite: Bio 115 or Bio 145. College courses in Math and Chemistry are useful.

BIG 245 COMPARATIVE ANATOMY

5 hours

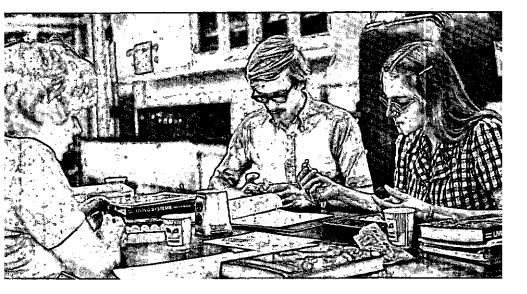
The comparative anatomy of vertebrate animals, including both embryological development and adult structure. Dissection includes a representative from each major vertebrate class. Includes classification of vertebrates, embryology, skeleton, muscles, coelome, digestive and respiratory systems, circulatory system, uninogenital system, and nervous system. Two lectures and six hours of laboratory per week.

Prerequisite: Bio 145 or consent of the instructor.

Bio 271,1 DIRECTED STUDIES (HONORS) 281, 291: IN BIOLOGY

1 hour

The biology internship provides two alternatives. A student pursue: (1) investigation or studying independently a sperprearranged topic, within the field of biological science, (2) assisting



primarily in the laboratory, or in lecture when peer groupings are being utilized.

Prerequisite: Consent of the instructor.

Bio 272,

PRACTICUM IN BIOLOGY ...

2 hours

282,292

Biology Practicum provides two types of learning experiences: (1) assisting students in laboratory sessions of life science courses, and (2) participating in a weekly biology topics seminar. One seminar period and four hours of laboratory assisting per week.

Prerequisite: Successful completion of course that student will

assist in, or consent of instructor.

BUILDING AND SITE MAINTENANCE

B&SM 115

BUILDING AND SITE MAINTENANCE I

15 hours

The Building and Site Maintenance program at East Central Junior College is designed to train regular students and adults for positions with many agencies. The program is intended to develop the necessary skills to develop the site, maintain the building and its equipment, diagnose basic systems and equipment malfunctions, accomplish normal repairs and initiate routine alteration or modification of the building and its systems. The student will spend 4½ hours a day, five days per week in the training program. All classes are scheduled in the morning to enable a student to concurrently hold employment.

Prerequisite: none

B&SM 215 ·

BUILDING AND SITE MAINTENANCE II

15 hours

A continuation of B&SM 115. Prerequisite: B&SM 115

B&SM 291 \

BUILDING AND SITE MAINTENANCE PLACEMENT

1 hour

A course designed to assist building and site maintenance students in obtaining jobs suitable to their training and interests.

Prerequisite: Consent of the instructor

BUSINESS MID-MANAGEMENT

Bus 103

INTRODUCTION TO BUSINESS

3 hours

A survey course designed to give the student a general knowledge of the modern business world, and a better basis for choosing concentrated business offerings.

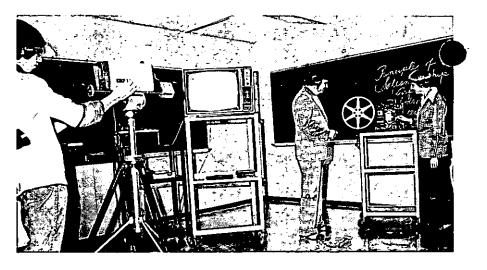
Prerequisite: none

Bus M 113 √

PRINCIPLES OF MARKETING

3 hours

This course is designed to introduce the student to the managerial area of marketing. Although consumer and institutional behavior patterns and the overall role of marketing in the economy are covered, the major emphasis will be concerned with the types of problems confronting those involved in marketing management.



Bus M 123 · SALESMANSHIP

3 hours

A study of proper sales techniques for presenting and selling merchandise to the consumer. Methods of organization, training, and management of the sales force.

Prerequisite: none

Bus M 133 ADVERTISING AND DISPLAY

3 hours

Aspects of advertising with emphasis on the development of a proper marketing mix, the planning of advertising strategy, the management of personnel, the control of advertising operations, advertising research, and the development of display plans. Each student will be assigned an advertising project concerned with a marketing plan, advertising strategy, and an advertising budget.

Prerequisite: none

Bus M 143 √ PRINCIPLES OF FINANCE

3 hours

How the business firm gets and uses funds it needs to carry on its operation. Topics include financing with stocks, financing with bonds, financing working capital requirements, businesses and banks, business failures and reorganization.

Prerequisite: none

Bus M 201 BUSINESS MANAGEMENT PLACEMENT

1 hour

A course designed to assist business management students in obtaining jobs suitable to their training and interests.

Prerequisite: none

Bus M 233 FUNDAMENTALS OF MANAGEMENT

3 hours

An evaluation and comparison of private and public personnel practices and techniques of recruiting, selecting, transferring, promoting, classifying, and training workers.

Bus M 251

DISPLAY PROJECT

1 hour

3

A study of the types and the role of visual merchandising in the retail store including creation, color and principles of design, incorporating actual experience in preparing retail displays.

Prerequisite: none

Bus M 271, 272, 273, 274

DIRECTED STUDIES

1-4 hours

Course content and hours arranged by instructor.

Prerequisite: Consent of the instructor

Bus M 283 /

BUSINESS LAW

3 hours

A study of those areas of the law which affect most businesses; sales and credit, contracts, insurance, agency and employment, commercial paper, and personal property and bailments.

Prerequisite: none

Bus M 291, 292, 293

INTERNSHIP

1-3 hours

This phase of the student's business management training will include actual work experience in a retail business with periodic discussions of the problems involved in applying classroom principles to the job.

Prerequisite: Enrollment in Business Management Program and consent of the instructor

CHEMISTRY

Chem 105

INTRODUCTION TO CHEMISTRY

5 hours

Introduction to the basic principles of chemistry, including inorganic, analytical, physical, and organic chemistry. Environmental and practical applications are emphasized with one lab session per week being used for small group discussions of current topics. Three hours of lecture and two two-hour laboratories per week.

This course is designed for the student with no background in chemistry.

Prerequisite: none

Chem 115 🐇

GENERAL CHEMISTRY I

5 hours

Topics of study include atomic and molecular structure, bonding, chemical equasions, stoichiometry, gases, solutions, and an introduction to organic chemistry. Three one-hour lecture periods and two two-hour laboratory periods per week.

Prerequisite: A satisfactory score on the MMPT and either Chem 105 or high school chemistry.

Chem 125 /

GENERAL CHEMISTRY II

5 hours

A continuation of Chem 115, including chemical equilibria, complexions, thermodynamics, oxidation-reduction reactions, and qualitative analysis. Three one-hour lecture and recitation periods and two two-hour laboratory periods per week.

Prerequisite: Chem 115

Chem 234, 235

QUANTITATIVE ANALYSIS

4-5 hours

A study of the fundamental principles of quantitative analytical chemistry, including gravimetric volumetric a spectrophotometric determinations. Two hours lecture and two three three-hour laboratory periods per week.

Prerequisite: Chem 125

Chem 245

ORGANIC AND BIOLOGICAL CHEMISTRY 5 hour

A survey of major topics of organic and biological chemistry. Including aliphatic and aromatic hydrocarbons, carbohydrates, lipids, amino acids, the vitamins, and steroids. The course related chemical applications to human metabolism, agriculture, home economics, and medical technology programs. Four hours lecture and three hours laboratory each week.

Prerequisite: Chem 105 or Chem 115

Chem 271, 272, 273, 274

DIRECTED STUDIES IN CHEMISTRY (HONORS) 1-4 hours

The student enrolled for directed studies has two alternatives: (1) investigate a specific topic within the field of chemistry, (2) assist in the laboratory, stockroom, or with individualized instruction under the supervision of an instructor.

Prerequisite: Consent of the instructor

DATA PROCESSING

DP 103 °

INTRODUCTION TO COMPUTERS 3 hours

An introduction to basic theory and methodology of electronic data

processing.

Prerequisite: none

DP 112, 113 V

COMPUTER PROGRAMMING-FORTRAN

2-3 hours

Basic programming techniques and computer solution of programming ECREPAN John Managers

using FORTRAN language.

Prerequisite: Math 163

DRAFTING AND DESIGN TECHNOLOGY

Draft 113

ENGINEERING DRAWING

3 hour

This course is designed to give the student a working knowledge of fundamental drawing practices and the geometric relationships of points, lines and planes in space. Areas covered include the techniques of lettering, sketching, instrumental drawing of mechanical parts, sectional and auxiliary views and conventional drafting practices.

Prerequisite: none

Draft 115 🏏

TECHNICAL PHYSICS

5 hours

Three hours of lecture and two lab periods per week. A study of mechanics, heat, sound, light electricity, and physical properties of

matter. This is a non-calculus course which features problem solving and laboratory work.

Prerequisite: Either Math 143, 153, or satisfactory score on the

MMP.

Draft 123 DESCRIPTIVE GEOMETRY

3 hours

A study of the graphic analysis and solution of typical three dimensional space problems through the application of the principles of multi-view projections. Fundamental problems are related to points, lines, planes, intersections, and developments of plane and curved surfaces, revolutions, and vector geometry.

Prerequisite or corequisite: Drafting 113

Draft 133, 135 ARCHITECTURAL DRAWING

3, 5 hours

This course introduces the fundamental principles of residential design. It includes instruction on materials and methods of construction, design standards and room arrangement. Course emphasis will be given to the development of complete residential plans.

Prerequisite: Draft 113

Draft 145 - MACHINE DRAWING

5 hours

The student will work in problem solving situations involving the development of drawings of castings, forgings, machinings and sheet metal layout. Also, the methods of making working and assembly drawings will be included, providing depth in the area of machine drawing. Dimensioning will be of primary importance.

Prerequisite: Draft 113

Draft 152

MODERN DRAFTING TECHNIQUES

2 hours

This is an exploratory course which has major emphasis on photography, film processing, model building and their industrial applications. Students will participate in development of projects utilizing the latest available industrial techniques.

Prerequisite: Draft 113

Draft 165 "

MATERIALS AND PROCESSES

5 hours

A survey of current engineering materials and the various processes used to shape them. Materials studied include a review of ferrous and nonferrous metals, plastics, rubbers, and ceramics. Emphasis is placed on the advantages and limitations of the various casting, forging, machining, grinding, forming, molding, welding, heat treating and powder metallurgy processes used to shape materials.

Prerequisite: none

Draft 173

PRINCIPLES OF POWER

3 hours

Principles of hydraulics and pneumatics fundamental to fluid power design are presented. Other topics include principles of mechanical and electrical powered systems and power system schematics.

Corequisite: Math 133 or consent of the instructor

Draft 203 '

TECHNICAL ILLUSTRATION

3 hours

A course to develop the understanding and skills to produce technical illustrations in the many forms required by indust included will be an intensive study of the pictorial forms of isometrie, dimetric, trimetric, oblique and perspective drawing, and the methods and media used in creating illustration.

Prerequisite: Draft 113

Draft 233

CIVIL DRAWING

3 hours

A course encompassing the methods and conventions of engineering graphics as they are practiced in the civil engineering field and its allied industries. Primary focus will be on drawing and detailing civil projects such as highway projects, bridges, land division and subdivision, and municipal utility facilities.

Prerequisite: Draft 113

Draft 243 '

MACHINE DESIGN

3 hours

This course is designed to bring together in practical applications the skill and knowledge developed in courses covering mechanics and drafting. Instruction provided will permit logical organization of facts for economical solution of machine design problems. Emphasis is placed on standardization, use of stock parts, and using manufacturers' catalogs.

Prerequisite: Draft 145

Draft 253

STATICS AND STRENGTH OF MATERIALS

3 hours

A study of statics and strength of materials as applied to structures, beam theory, beam design, and theory of column formulae. Includes study of stress and strain experienced by machine parts and structural members. Emphasis is placed on applications and problem solving.

Prerequisite: Math 143 or consent of the instructor

Draft 263

TOOL AND DIE DESIGN

3 hours

Lectures, classroom discussions and actual drawing board work are combined to give the student knowledge necessary to design the less complicated tools used in modern manufacturing. The work consists of laying out simple jigs, fixtures, cutting tools, gauges, and dies. Mass production methods are discussed so that this knowledge may be applied in the practical work of tool designing.

Prerequisite: Draft 145

Draft 271 .

DIRECTED STUDIES IN DRAFTING DESIGN

1 hour

Investigation in depth of a specific industrial problem or actual experience in related office practices.

Prerequisite: Consent of the instructor

Draft 273 /

STRUCTURAL DRAWING

3 hours

The course concentrates on detailing and delineating the structural systems encountered in architectural and civil construction. Systems included will be those based on materials including wood, steel and concrete components. Shop drawings and erection drawings will be covered.

Prerequisite: Draft 113 and 253

Draft 291

DRAFTING PLACEMENT

1 hour

A course designed to assist drafting students in obtaining jobs suitable to their training and interests.

Prerequisite: none

ECONOMICS

Econ 213

PRINCIPLES OF MACRO-ECONOMICS

3 hours

An introduction to the total level of economic activity—the rate of employment, production, output, income. Topics include unemployment, inflation, the banking system and monetary policy, government spending and fiscal policy, international economics.

Prerequisite: none

Econ 223 ⁴

PRINCIPLES OF MICRO-ECONOMICS

3 hours

An introduction to how prices are determined. Topics include how prices are set in markets of varying degrees of competition; how income is distributed; wages, unions, profits, and rent.

Prerequisite: none

Econ 271, 272, 273, 274

DIRECTED STUDIES IN ECONOMICS

1-4 hours

Course content and hours arranged by instructor.

Prerequisite: Consent of the instructor.

EDUCATION

Ed 101 \wp

CAREER DECISIONS

1 hour

A course designed to assist students in self inventory, to help the student see and understand his interests, aspirations, needs, personal assets and liabilities. Students will gain experience in exploring the world of work, finding information on jobs, and learning to use that information. Students will learn how to make decisions regarding themselves and their relationship to the world of work.

Prerequisite: none

Ed 112, 113

PERSPECTIVES IN EDUCATION

2, 3 hours

An introduction to the many facets of American education designed to give the student accurate information about education and to

provide him with opportunities to determine his interest and aptitude for pursuing an educational profession.

Prerequisite: none

EDUCATIONAL PSYCHOLOGY

3 hours

A study of theories and facts concerning human behavior in such areas as motivation, learning, and social development, as applied to the educational process.

Prerequisite: Psychology 113 or consent of the instructor

ENGINEERING

Engr 113

Ed 223 1

ENGINEERING DRAWING AND DESCRIPTIVE GEOMETRY

3 hours

A study of the graphic analysis and solution of typical three dimensional space problems through the application of the principles of multi-view projections. Fundamental problems are related to points, lines, planes, intersections, and developments of plane and curved surfaces, revolutions, and vector geometry.

Prerequisite: none

Engr 203

ENGINEERING MECHANICS—STATICS

3 hours

Application of the principles of mechanics to engineering problems of equilibrium. Topics include resultants, equilibrium, friction, trusses, center of gravity, and moment of inertia.

Prerequisite: Phys 215 Corequisite: Math 225

ENGLISH



Eng 001

STUDY SKILLS I—LISTENING AND NOTE-TAKING

A programmed course which develops skills in listening and note-taking. The program presents a series of exercises which provide practice in listening to spoken information and in taking notes and answering questions on the material heard.

Prerequisite: none

Eng 002

DEVELOPMENTAL READING I

2 hours

A developmental course in reading, designed for students whose reading level is too low for college work. Comprehension, vocabulary, and phonetics are stressed.

Prerequisite: none

Eng 011 \

STUDY SKILLS-LIBRARY SKILLS

1 hour

A self-contained course designed to introduce the student to the library, making it possible for him to use its resources effectively.

Eng 102 *

DEVELOPMENTAL READING II

2 hours

A self-contained course in reading improvement stressing comprehension and vocabulary development while emphasizing speed. The student uses a rateometer to build speed and answers questions to measure comprehension of material read at particular speeds.

Prerequisite: none

Eng 105

DEVELOPMENTAL ENGLISH

5 hours

An individualized, self-paced course covering grammar and language usage, reading, vocabulary, and spelling. This course will fulfill the English requirement for the technical education student or will prepare an A.A. student to enter English 123.

Prerequisite: none

Eng 111'

STUDY SKILLS III—SYSTEMS OF STUDY

1 hour

A self-contained course designed to orient the student to college, emphasizing such basic study skills as listening and note-taking, time-scheduling, preparing for and taking examinations, using the library, writing a term paper, and studying science and mathematics.

Prerequisite: none

Eng 123

ENGLISH COMPOSITION I

3 hour:

A course dealing with the principles of composition including rhetoric, grammar, and usage. The course emphasizes the adequate development of ideas through the use of various rhetorical patterns. Research techniques are taught.

Prerequisite: Eng 105 or demonstrated proficiency on the MCET and on a writing sample

Eng 123H

ENGLISH COMPOSITION (HONORS)

3-6 hours

An intensified composition course open to freshmen who qualify as evidenced by their high school ranks, placement test scores, and a writing sample. The student who receives a grade of A or B will receive six hours credit in composition and will not be required to take English 133 or its equivalent; however the student will be required to take a literature course to fulfill the English requirement.

Prerequisite: Demonstrated high proficiency on the MCET and on a writing sample.

Eng 133

ENGLISH COMPOSITION II

3 hours

A second course in composition which provides practice in writing longer units of exposition including argumentation and critical papers. Some sections will offer topical approaches: e.g. the literature of rural America, satire and humor.

Prerequisite: Eng 123

Eng 143

TECHNICAL WRITING

3 hours

Introduction to the practical aspects of preparing reports. The emphasis is on the techniques of collecting and presenting scientific

data by means of formal and informal reports. Also included are other elements of communication concerning science and industry

Prerequisite: One previous English course

Eng 153 / POETRY

3 hours

A study of literature concentrating on the forms, techniques, and themes of poetry; emphasis is placed on analysis and interpretation.

Prerequisite: Eng 105 or Eng 123 or consent of the instructor

Eng 163 FICTION

3 hours

A study of literature concentrating on the forms and themes of prose fiction. The course includes the study of novels as well as short stories.

Prerequisite: Eng 105 or Eng 123 or consent of the instructor

Eng 173 DRAM

3 hours

A study of the forms and techniques of drama through reading and discussing plays destined for the theater. Film and television drama will also be considered.

Prerequisite: Eng 105 or Eng 123 or consent of the instructor

Eng 183 FILE

3 hours

Film is a humanities course which will deal with the motion picture as a serious art form and social force in society. Selected films will be analyzed with respect to aesthetics, production methods and social significance.

Prerequisite: Eng 105 or Eng 123 or consent of the instructor

Eng 193 CHILDREN'S LITERATURE

3 hours

A study of children's literature from pre-school to sixth grade to acquaint the student with the best forms of literature for children, to develop standards of judgment in the selection of reading mat als for children.

Recommended for elementary education majors.

Prerequisites: Eng 123

Eng 203

ENGLISH GRAMMAR

3 hours

A detailed study of current English grammar and usage. Particular attention is given to problems that teachers might have in teaching English in the elementary or secondary school. Recommended for all elementary education majors, teachers' aides, and English majors.

Prerequisite: Grade of A or B in Eng 105, Eng 123 or consent of the instructor

Eng 213 ENGLISH LIFE AND LITERATURE I

3 hours

A survey of English literature from the Anglo-Saxon period through the Age of Reason.

Prerequisite: Eng 123 and sophomore standing, or consent of the instructor

Eng 223

ENGLISH LIFE AND LITERATURE II

3 hours

A survey of English literature from the Romantic Period to the Twentieth Century.

Prerequisite: Eng 123 and sophomore standing, or consent of the instructor

Eng 233

AMERICAN LITERATURE I

3 hou

A survey of American Literature from the colonial period up to the Civil War.

Prerequisite: Eng 123 and sophomore standing, or consent of the instructor

Eng 243

AMERICAN LITERATURE II

3 hours

A survey of American Literature from the Civil War to the present.

Prerequisite: Eng 123 and sophomore standing, or consent of the instructor

Eng 253

CREATIVE WRITING

3 hours

A course in imaginative writing involving student production of poems, stories, and plays.

Prerequisite: Eng 105 or Eng 123 or consent of the instructor

Eng 271, 272, 273, 274

DIRECTED STUDIES IN LITERATURE

1-4 hours

Intensive study of various movements, themes, genres, or authors in American or English literature, the study to be determined by instructor and student. The study will include extensive reading, discussion, and an in-depth paper.

Prerequisite: Consent of the instructor and a grade point average of 3.0 or better in the department



FIRE AND FIRE SAFETY TECHNOLOGY

FST 113 BASIC FIRE PROTECTION & ALARM SYSTEMS

3 hours

A study of modern fire protection, including water supply and distribution systems, fire department organization, housing of equipment and personnel, private fire protection methods, chemical extinguishers, building construction, and a study of the various types of fixed and portable fire detection and alarm systems.

Prerequisite: none

FST 123

ARCHITECTURAL STRUCTURAL REPRESENTATION—MATERIALS

3 hours

Basic fundamentals of building plan layouts, including the conventional representations, symbols and abbreviations for building materials; methods of showing floor plans, elevation, sections and dimensions.

Prerequisite: none

FST 133

FIRE SCIENCE HYDRAULICS

3 hours

A study of the mechanics of liquids, particularly as pertains to water flow, hydrants, pumps, standpipes, hoses, nozzles, sprinkler systems, and other facets of liquid mechanics as it is adapted to fire fighting practices.

Prerequisite: none; mathematics and physics advisable.

FST 143

FIRE DEPARTMENT APPARATUS

3 hours

A study of the description and specifications of the various fire department apparatus found in the modern organization. Special emphasis is given to manufacturer's specifications, analysis of various codes and standards of construction and methods of writing specifications for various pieces of equipment.

Prerequisite: none

FST 153

FIRE DEPARTMENT ORGANIZATION AND SUPERVISION

3 hours

Instruction in management and administration for the fire service including the functions of management, planning, organizing, directing, controlling, the management cycle, motivation, behavioral science, executive development, educational development and labor relations.

Prerequisite: none

FST 163

TEACHING TECHNIQUES FOR FIRE DEPARTMENT PERSONNEL

3 hours

The basic theories of learning and methods of instruction are discussed. The use of lectures, demonstrations and visual aids as

applied to the instruction of fire department personnel is illustrated. Practice is provided in the use of lesson plans, visual aids, tests and other teaching devices. Each student's application of a teaching procedure is critically discussed and evaluated.

Prerequisite: none

^L FST 173

FIRE CHARACTERISTICS

3 hours

Characteristics and behavior of fire found in ordinary materials such as oils and other combustible chemicals. A review of basic chemistry with emphasis on combustion. Hazards of liquids and gases, special techniques in regard to oxygen supplies.

Prerequisite: none

FST 223

CODES AND ORDINANCES

3 hours

A detailed study of national, state and local ordinances applicable to the fire service and electrical, plumbing and building codes.

Prerequisite: none

FST 233

PRINCIPLES OF RISK AND INSURANCE

3 hours

Anfanalysis of the concepts and principles of risk and insurance, emphasizing its nature, degree, distinguishability, and terminology. Also review institutions, fundamentals and structures of insurance contracts and regulation. Introduction to automobile, fire, inland and marine, personal theft and comprehensive, life and workman's compensation.

Prerequisite: none

FST 243

HAZARDOUS MATERIALS

3 hour

A second semester of the review of basic fundamentals of chemistry used in fire science with emphasis on less common special hazards. Topics covered will include nuclear reactions, ionization, radiation detection equipment, peacetime uses of radioactive materials and control of resulting hazards.

Prerequisite: none

FST 253

INSPECTION AND FIRE PREVENTION

3 hours

Inspection surveying and mapping procedures associated with the organization and function of fire prevention. Opportunity will be provided to make at least one complete inspection and report on an operation industry.

Prerequisite: none

FST 263

FIRE INVESTIGATION

3 hours

Methods determining point of origin, path of fire travel and fire causes; motives and methods of fire setting; recognizing and preserving evidence; arson laws, and types of arson fires, court testimony, reports and records.

FST 273

FIRE FIGHTING TACTICS

AND STRATEGY

3 hous

Fundamental strategy and method of attack employed for variafire problems. Principles of fire fighting as applied to small and large scale fire problems and problems that are complex or unique in nature.

Prerequisite: none

FST 283

RESCUE PRACTICES AND

FIRST AID

3 hours

Life saving practices pertaining to the fire company and fire department personnel, manual artificial respiration, inhalators, resuscitators, inspecting, cleaning and sterilizing equipment, and transportation of the injured.

Prerequisite: none

FRENCH

Fren 115

ELEMENTARY FRENCH I

5 hours

An introductory French course stressing basic language skills: listening comprehension, speaking, reading, and composition. Additional audio-lingual practice in the learning laboratory.

Prerequisite: none

Fren 125

ELEMENTARY FRENCH II

5 hours

A continuation of French 115.

Prerequisite: Fren 115

Fren 213

FRENCH READINGS

3 hours

Selected readings in prose and poetry along with grammar revocabulary building, and additional audio-lingual practice.

Prerequisite: Fren 115 or consent of the instructor

GEOGRAPHY

Geog 113

GEOGRAPHY OF THE NEW WORLD

3 hours

A regional study of North America, South America, and Australia, with emphasis on the natural resources, political conditions, economy, population, and cultural patterns of each area.

Prerequisite: none

Geog 123

GEOGRAPHY OF THE OLD WORLD

3 hours

A regional study of Europe, Africa, and Asia with emphasis on the natural resources, political conditions, economy, population, and cultural patterns of each area.

GEOLOGY

Geol 115

INTRODUCTION TO PHYSICAL GEOLOGY

5 hours

An introductory course in physical geology in which materials of the earth's crust, structures, and geologic features of the surface are studied. Field trips and the laboratory study of common minerals and rocks will be included in the five-hour section. Three lecture and four hours laboratory per week.

Prerequisite: none

GERMAN

Germ 115

ELEMENTARY GERMAN (

5 hours

An introductory German course stressing basic language skills: listening comprehension, speaking, reading, and composition. Additional audio-lingual practice in the learning laboratory.

Prerequisite: none

Germ 125

ELEMENTARY GERMAN II

5 hours

Continuation of German 115.

Prerequisite: Germ 115

Germ 213

GERMAN READINGS

3 hours

Selected readings in prose and poetry along with grammar review, vocabulary building, and additional audio-lingual practice.

Prerequisite: Germ 125 or consent of the instructor

HISTORY

1,124

AMERICAN HISTORY

4 hours

A survey of the cultural, economic, institutional, political, and social forces and events which have shaped the United States from the "Age of Discovery" to the present. American History 124 is designed to satisfy Section 170.011, Rs Mo., of the Missouri Statutes in regard to the study of State and Federal Constitutions.

Prerequisite: none

۱ Hist 213

FOUNDATIONS: OF WORLD CIVILIZATION I (EUROPE) 3 hours

An interdisciplinary study of the European people "from the Renaissance through the Age of Napoleon." Attention will be given to cultural, intellectual, diplomatic, and political movements. The course is designed for students of history and others desiring elective courses in the humanities.

Prerequisite: none

/ Hist 223

FOUNDATIONS OF WORLD CIVILIZATION II (EUROPE) 3 hours

An interdisciplinary study of European nations from the French Revolution to the present. Attention will be given to cultural, intellectual, social, diplomatic and political movements of recent and contemporary Europe. The course is designed for students of history and others who desire an elective course in the humanitis

Prerequisite: none

Hist 233

FOUNDATIONS OF WORLD CIVILIZATION III (LATIN AMERICA)

3 hours

An interdisciplinary topical study of the social, economic, political, cultural and intellectual conditions of modern Latin America from 1800 to the present. The course is designed for students of history and others who desire an elective course in the humanities. Prerequisite: Sophomore standing or consent of the instructor.

/ Hist 243

FOUNDATIONS OF WORLD CIVILIZATION IV (AFRICA AND ASIA)

3 hours

An interdisciplinary study of Africa and Asia from 1800; including studies of the politics, culture and people of both recent and contemporary Africa, China, Japan, India, and other selected nations of Asia. The course is designed for students of history and others who desire an elective course in the humanities.

Prerequisite: Sophomore standing or consent of the instructor

Hist 271

DIRECTED STUDIES IN HISTORY (HONORS)

1 hou

The student enrolled for directed studies has two alternatives: (1) investigate a specific topic within the field of history, (2) assist with tutorial history instruction under the supervision of an instructor.

Prerequisite: Consent of the instructor

HORTICULTURE

Hort 113

SOILS

3 h

Students learn the nature and properties of various soil types, many new artificial mixes, and other important growing media. The use of chemicals necessary for plant development and for the aftering of soil properties. Environmental considerations are detailed to specific plant requirements. Up-to-date environmental systems in greenhouse (and field) settings will be explored. Student lab project to these desired ends furnish practical application. This is a course offering experience in soil and plant testing along with data interpretation and application.

Prerequisite: none

Hort 123

HORTICULTURE I

3 hours

Introduction to plant life and career opportunities in basic botany is presented along with greenhouse environmental controls. These considerations are applied to growing flowers under glass and in plastic structures. Course covers introduction to major concepts of soils, plant nutrition, and plant identification.

Hort 233 HORTICULTURE II

3 hours

The identification, culture, and indoor and outdoor use of bulbs, annuals, herbaceous perennials, garden roses, and foliage plants. Trees and shrub identification is also emphasized here. Campus specimens are studied. Pruning techniques are explored with a field-lab approach, along with studying problems of trees. Introduction to the nursery industry; regulations, cultural and planting practices, and nursery-garden center operations.

Prerequisite: none

Hort 243 PLANT PROPAGATION

3 hours

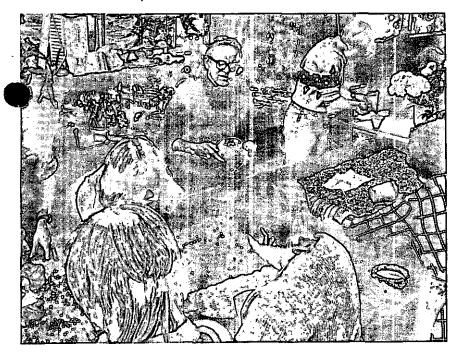
An introduction to the common methods of commercial plant reproduction including seeds, cuttings, layering, grafting, and division. This course will make use of the greenhouse propagation facilities.

Prerequisite: Biology 155

Hort 253

DESIGN I: FLORAL AND LANDSCAPE DESIGN 3 hours

A basic course dealing with the principles of making simple flower arrangements, types of designs, and styles; principles, tools, equipment, materials, foliages, and flower types and color are covered. Design I offers (as an option) a beginning course in landscape drafting, design, and planning emphasizing proper planning procedures, residential design representations, and the functional and aesthetic use of landscape materials.



Hort 263

HORTICULTURE III

3 hours

A detailed course dealing with the greenhouse and nurser practices. A segment is included on turfgrasses, their culture a uses for lawns, golf courses, highway, and recreational facilities. Disease and pest control in ornamental plants and turf are also studied, along with weed control. Diagnosis, application, and safety of pest-disease considerations is included. Ornamental plant identification continues with trees, shrubs, vines, and groundcovers.

Prerequisite: none

Hort 273

HORTICULTURE IV

3 hours

Introduction to greenhouse operation and management with emphasis on commercial flower production. The principles and practices of greenhouse potted plant productions, including azaleas, begonias, bulbs, chrysanthemums, geraniums, hydrangeas, lilies, orchids, and poinsettias. Foliage plants and bedding plants are also included. The business management segment encompasses a study of retail and wholesale horticultural businesses and future opportunities. Field trips are included to several firms, such as nurseries, greenhouses, garden centers, seed and equipment dealers. Topics covered are public relations, advertising, financing, records, employee relations, taxes, ownership, and small business practices. Includes an individual study of a business.

Prerequisite: none

Hort 283

DESIGN II

3 hours

Students are given advanced training in floral design and pricing and buying flowers. Some study is also made of flower shop management. A field trip is included, exposing students to the commercial emphasis of floral design. The landscape design (option) includes topics of designing, planning, and pricing diversified landscapes. Maintenance are also included in this advanced program. Features construction and installation procedures of walks, fencing mounds, pools, and streams, irrigation, and outdoor lighting. Thuse of indoor-outdoor sculptures is included in this comprehensive study of landscape design.

Prerequisite: Hort 253

Hort 292, 293, 294

INTERNSHIP

2-4 hours

On the job training at the Campus Growing Center, the Missouri Botanical Garden's Arboretum (Gray Summit, MO), and ornamental horticulture businesses. These exposures provide students with opportunities to use competencies developed in the classroom and laboratory. Emphasis here is preparation for fulltime employment. Independent "project" studies may be included in the internship studies.

Prerequisite: Consent of the instructor

JOURNALISM

r 102

PUBLICATIONS PRACTICUM 1-YEARBOOK

2 hours

2 hours

Students enrolled in this course produce the college yearbook. The course includes instruction and practical experience in copy writing, editing, layout and design, and photography.

Prerequisite: none

Jour 112 '

PUBLICATIONS PRACTICUM II-NEWSPAPER

Practice in news reporting, newspaper layout and design, and pasteup. The course is open to all students who want practical experience working on the college newspaper *Cornerstone*.

Prerequisite: none

MATHEMATICS

Math 100

BASIC MATHEMATICS

3 hours

A beginning course which will satisfy certain terminal program requirements but does not satisfy Associate of Arts degree requirements. Topics covered include the following: basic principles of arithmetic, positive and negative numbers, exponents, fractions, decimals, combining like terms, order of operations and symbols of grouping, working with formulas, linear equations, word problems, ratio and proportion, units of measure, area and volume formulas, multiplying polynomials, factoring polynominals, fractions containing variables, radicals, graphing and quadratic equations.

Prerequisite: none

Math 103

BUSINESS MATHEMATICS

3 hours

Commercial and financial applications of basic arithmetic and algebraic processes. This course is intended for students in office and business career A.A.S. degree programs.

Prerequisite: none

oth 113

MODERN MATHEMATICS I

3 hours

This course is designed for students who are potential elementary teachers or for general education students. Topics are presented in such a manner that they can be mastered by the student without previous training in set theory. Topics covered include the following: sets, logic, venn diagrams, systems of numeration, system of whole numbers, system of integers, system of rational numbers, field properties, algorithms for whole numbers, and terminology of modern math. As these topics are mastered, modern methods of teaching these topics will be inverstigated.

Prerequisite: Math 100 or satisfactory score on MMPT.

Math 123

MODERN MATHEMATICS II

3 hours

This course is designed to make the potential elementary teacher or general education student familiar with all topics which are taught in the math curriculum in grades K-10 and the modern approach of teaching these topics. Topics covered include the following: review of topics covered in Math 113, number theory, decimals and real

numbers, nonmetric metric geometry, metric geometry, statistics and probability, and modern methods of teaching the above mentioned topics.

Prerequisite: Math 113 or consent of the instructor

Math 133 TECHNICAL COMPUTATIONS I

3 hours

Treatment of measured data, significant figures, applications in geometry, basic algebra, use of the slide rule, linear equations.

Prerequisite: Math 100 or satisfactory score on MMPT

Math 143 TECHNICAL COMPUTATIONS II

3 hours

Numerical trigonometry of the right angle, analytic trigonometry, oblique triangles, functions and graphs, logarithms, and application of numerical trigonometry and vectors.

Prerequisite: Math 133

Math 153 INTERMEDIATE ALGEBRA

3 hours

A preparatory course covering the fundamental principles of algebra designed to prepare the student to take college algebra and in the case of certain degrees to satisfy the mathematics requirement. This course is recommended for those students who have only one or two years of high school algebra. Topics covered include the following: sets, factoring, linear and quadratic equations, fractions and fractional equations, exponents and radicals, simple analytical geometry and systems of equations.

Prerequisite: Math 100 or satisfactory score on MMPT

Math 162 TRIGONOMETRY

2 hours

This course designed to provide the student with a study of the trigonometric functions and their applications. Topics covered include the following: angles, length of arc, tables of trigonometric functions, interpolation, reference angles, graphic representation trigonometric functions, law of cosines, law of sines, identify trigonometric equations, inverse functions, complex numbers, logarithms, and polar coordinates.

Prerequisite: Math 153 or 163.

Prerequisite or Corequisite: Math 163

Math 163

COLLEGE ALGEBRA

3 hours

This course is designed to meet the needs of the student in a transfer program. Topics covered include the following: sets, exponents, theory of equations, inequalities, complex number system, systems of equations, permutations, combinations, probability, radicals, sequences, graphing, and statistics.

Prerequisite: Three years of high school mathematics and/or satisfactory score on the MMPT or Math 153

MATH 165

ANALYTIC GEOMETRY AND CALCULUS I

5 hours

A first course in a sequence of courses including analytic geometry, differential calculus, and integral calculus. This series is recommended for majors in engineering, the physical sciences, and

mathematics. Topics include the following: Properties of real numbers, introduction to analytic geometry, functions, limits, continuity, the derivative, differentiation of algebraic functions. applications of the derivative, antidifferentiations, and the definite integral.

Prerequisite: Math 163 and Math 162 or satisfactory score on the

MMPT.

Math 175

ANALYTIC GEOMETRY AND CALCULUS II

A continuation of Math 165 including the following topics: applications of the definite integral, logarithmic and exponential functions, trigonometric functions, techniques of integration, approximate integration, polar coordinates, conic sections, and vectors, and parametric equations.

Prerequisite: Math 165

Math 203

FINITE MATH

3 hours

An introduction to matrices and linear programming. Designed for non-physical science majors.

Prerequisite: Math 163 or equivalent

Math 213

STATISTICS

3 hours

This is an introductory course in statistics with an emphasis upon the collection and presentation of the following data: averages, dispersion, introduction to statistical inference, index numbers, time series, correlation and linear regression.

Prerequisite: Math 153

Math 225

ANALYTIC GEOMETRY AND CALCULUS III

5 hours

A continuation of Math 175 including the following topics: hyperbolic functions, indeterminate forms, improper integrals, vectors in three-dimensional space, solid analytic geometry, differential calculus of functions of several variables, multiple integration, infinite series.

Prerequisite: Math 175

Math 233

DIFFERENTIAL EQUATIONS

3 hours

Topics include separable variables, homogeneous equations, exact equations, integrating factors, linear differential equations, LaPlace transform, and applications.

Prerequisite: Math 225

Math 271, 272,

273, 274 -

DIRECTED STUDIES IN MATHEMATICS (HONORS) 1-4 hours

The student enrolled for directed studies has two alternatives: (1) investigate a specific topic within the field of mathematics, (2) assist with tutorial mathematics instruction under the supervision of an instructor.

Prerequisite: Consent of the instructor

MUSIC

√ Mus 103

FUNDAMENTALS OF MUSIC



A basic study of music, including notation, scales, intervals, chords, and rhythms; intended for the elementary education major and those not majoring in music. Summer offering intended as a pre-music theory survey.

Prerequisite: none

Mus 111, 211

COLLEGE CHOIR

1 hour

Open to all students with consent of instructor who have had previous chorus or choir experience. Credit will be given for participation each semester.

Prerequisite: none

Mus 111, 211

COLLEGE CONCERT BAND

1 hour

Open to all students with consent of instructor who have had previous experience. Credit will be given for participation each semester.

Prerequisite: none

Mus 111, 211

STAGE BAND

1 hour

The stage band is a studio band and will prepare and present concerts, while dealing primarily with music of the jazz idiom. Credit will be given for participation each semester. Open to all college students who are qualified instrumentalists by consent of the director.

Prerequisite: none

Mus 111, 211

ECJC SINGERS

1 hour

A select singing ensemble which performs popular and religious music of all ages. Open to all students with the consent religious instructor.

Prerequisite: none

Mus 111, 211

PRACTICUM IN CHORAL PERFORMANCE

1 hour

An additional course for the ECJC Singers to help prepare them for public performance in such non-musical areas as body movement, facial expression, mental communication, diction, and handling people.

Corequisite: Enrollment in ECJC Singers and permission of instructor.

Mus 112, 222

APPLIED MUSIC

2 hours

Applied music (private lessons) is offered in the following areas: piano, voice, brass, woodwind, and string instruments.

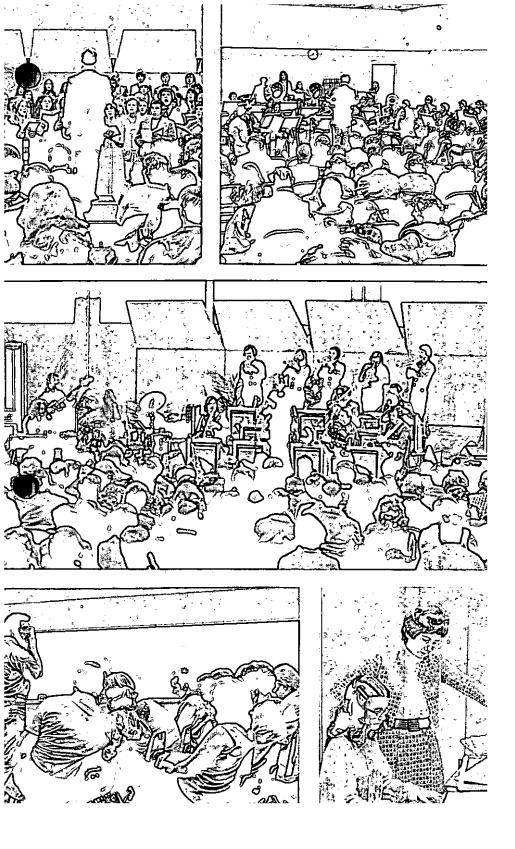
Prerequisite: none

Mus 113

MUSIC APPRECIATION

3 hours

A historical survey of the development of music, intended to provide a background for the understanding and application of music.



Recommended for music majors and minors as well as non-music majors.

Prerequisite: none

Mus 115 MUSIC THEORY I

5 hours

A beginning course in music theory, study of intervals, triads, four part diatonic harmony, connection of triads and their inversions. Sight singing, dictation, and elements of music; aural recognition of all diatonic intervals; melodic phrases and rhythms.

Prerequisite: none

Mus 123 MUSIC HISTORY I

3 hours

A chronological survey of the development of music in western civilization from the Greek period to the nineteenth century. Emphasis will be placed on the growth of musical form and style as illustrated in the musical masterpieces from the various phases of musical beauty and a consideration of the extra-musical factors bearing upon the lives and works of major composers.

Prerequisite: none

5 hours

A second course in music theory, extending into areas of seventh chords and non-harmonic tones. Two hours laboratory.

Prerequisite: Mus 115

Mus 133 MUSIC HISTORY II

3 hours

A continuation of Music History I surveying the development of music in western civilization from the nineteenth century to the present.

Prerequisite: none

Mus 143 MUSIC LITERATURE

3.h ura

Music Literature consists of the study of music through aural visual perception. Music studied will include examples of the major musical forms used by composers from the Middle Ages into the 20th century. In addition to listening assignments covered in class, supplementary listening assignments will be made on a weekly basis.

Prerequisite: none

Mus 202

MUSIC FOR ELEMENTARY TEACHERS

2 hours

An activities approach to classroom music for elementary teachers. The activities are approached through the ideas of Orff and Kodaly.

Prerequisite: Mus 103

Mus 215

MUSIC THEORY III

5 hours

A third course in music theory. A study of chromatic harmony including secondary dominants, modulation, and altered chords. Two hours laboratory.

Prerequisite: Mus 125

Mus 225

MUSIC THEORY IV

5 hours

A continuation of Music 215 to more complex areas of chromatic borrowed and altered chords, and finally to the vigorous appearance of complex modern techniques. Two hours laboratory.

Prerequisite: Mus 215

Mus 271

DIRECTED STUDIES IN MUSIC (HONORS) 1 hour

The student enrolled for directed studies has two alternatives: (1) investigate a specific topic within the field of music according to a mutually agreed to syllabus of instruction, (2) assist with tutorial music instruction under the supervision of a departmental instructor of music.

Prerequisite: Consent of the instructor

Mus 281

BEGINNING GUITAR

1 hour

A basic course in the elementary skills playing guitar, including chord and melody playing. No previous musical training required.

Prerequisite: none

[†] Mus 291

INTERMEDIATE GUITAR

1 hour

A continuation of Beginning Guitar including melody and chord playing as well as the technique of combining the two.

Prerequisite: Mus 281 or consent of the instructor

PHILOSOPHY

Phil 103

INTRODUCTION TO PHILOSOPHY

3 hour

Through the reading and discussion of representative selections from contemporary and classical writings, this course introduces the student to some of the major areas of philosophic inquiry concerning human experiences and the nature of the reality.

Prerequisite: none

Phil 113

INTRODUCTION TO LOGIC

3 hours

Logic is the study of techniques for distinguishing between adequate and inadequate arguments. This course is designed to introduce several techniques that may be used to evaluate arguments. The primary emphasis will be becoming able to use the techniques of propositional and monadic predicate calculi in evaluation arguments. A second emphasis will be upon learning several criteria for distinguishing between adequate and inadequate arguments in science.

Prerequisite: none

Phil 213

CONTEMPORARY ETHICAL PROBLEMS

3 hours

This course is a survey course in philosophy. It is designed to be problem oriented, using the writings of the philosophers as a resource in understanding the issues raised by the contemporary ethical problems.

Prerequisite: none

Phil 271, 272,

DIRECTED STUDIES

1-3 hours

Intensive study of various topics, individual philosophers philosophical schools. The study will include extensive read

discussion, and an in-depth paper.

Prerequisite: Consent of the instructor

PHYSICAL EDUCATION

PE 101 1

CO-ED BOWLING

1 hour

Emphasis on better performance of skills and techniques. Understanding of form, timing, and coordination. Team competition

in league play.

Prerequisite: none

PE 101

CO-ED CANOEING

1 hour

Fundamental techniques, skills and courtesies of canoeing. Actual

canoeing trips a part of class sessions.

Prerequisite: none

PE 101 .

CO-ED GOLF

1 hour

Fundamental techniques and skills, rules, terminology, playing

courtesies, and etiquette.

Prerequisite: none

PE 101

CO-ED GYMNASTICS

1 hour

Fundamentals of gymnastics, including an introduction to various apparatus such as the trampoline, side horse, uneven parallel bars, mats, and free exercise. An introduction to weight training may also

be received.

Prerequisite: none

PE 101

CO-ED KARATE



Techniques of basic empty hand fighting in form, practice, and

sparring.

Prerequisite: none

PE 101

CO-ED SKEET AND TRAP SHOOTING

1 hour

Techniques, skills, and safety uses of shooting clay birds.

Prerequisite: none

PE 101

CO-ED TENNIS

1 hour

Fundamental skills, rules, strategy, and courtesies of tennis. Tournament play during class sessions.

Prerequisite; none

PE 101

FLAG FOOTBALL AND VOLLEYBALL

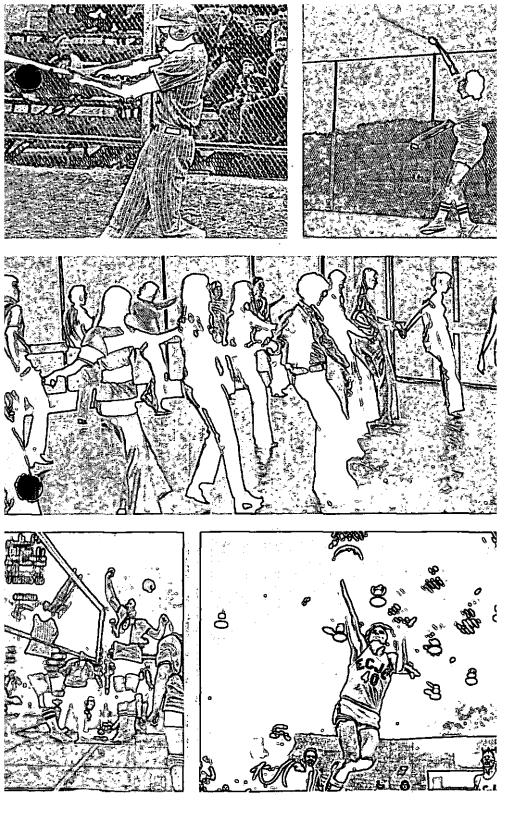
1 hour

A course designed to teach neuromuscular skills, rules, and

techniques of flag football and volleyball.

Prerequisite: none

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PE 101 BASKETBALL AND SOFTBALL

1 hour

A course designed to teach neuromuscular skills, rules, techniques of basketball and softball.

Prerequisite: none

PE 101 WRESTLING

1 hour

Fundamental techniques, skills, and rules of free style wrestling. Including competitive matches.

Prerequisite: none

PE 101 / CO-ED TABLE TENNIS

1 hour

Fundamental techniques, skills and rules of table tennis. Includes competition in both singles and doubles matches.

Prerequisite: none

PE 101

CO-ED ARCHERY

1 hour

Fundamental techniques, skills and safety practice utilized in shooting a bow and arrow—class will include introduction to Field Archery.

Archery.

Prerequisite: none

PE 101

CO-ED FOLK AND SQUARE DANCE

1 hour

A co-educational course designed to teach different dances of other countries and the different movements of square dance.

Prerequisite: none

PE 101 `

VARSITY SPORTS

1 hour

One hour of credit is given for participation each semester in the following varsity sports: cross-country, basketball, golf, tennis, and

baseball.

Prerequisite: none

PE 102

OFFICIATING SPORTS

2 hours

A course designed for physical education majors to teach them the techniques and rules of officiating in football and basketball.

Prerequisite: none

PE 102

PERSONAL AND COMMUNITY HYGIENE

2 hours

A general course designed to develop proper attitudes and practices which will contribute to the fine art of living. Health problems which will require community action are given consideration.

Prerequisite: none

PE 112 '

INTRODUCTION TO PHYSICAL EDUCATION

2 hours

A consideration of the principles of the basic theories of physical education. Course is designed for physical education majors and

Prerequisite: none

PE 122

INTRODUCTION TO RECREATION

2 hours

1

An introductory look at the field of recreation. Includes study in the history, development, principles and facilities for recreation. The course is designed for physical education and recreation majors and minors.

Prerequisite: none

PE 212

GAMES OF LOW ORGANIZATION

2 hours

A course designed for physical education majors, for the learning of activities and games to be taught on the elementary level. The course involves eight weeks of practical teaching in the first four elementary grades.

Prerequisite: none

PE 212

FIRST AID AND ATHLETIC TRAINING

2 hours

Treatment of wounds, shock, poisoning, fractures, unconsciousness; and stoppage of breathing, the care and prevention of athletic injuries. Red Cross certificate will be earned.

Prerequisite: none - PE majors

PHYSICS

Phy 105

PHYSICAL SCIENCE

5 hou

A demonstration, lecture, reading course in physical science designed for students who do not expect to take the traditional courses in laboratory science. This course covers some of the fundamental concepts from the areas of physics, chemistry and geology. It is not recommended as a course for majors or minors in the fields of science. Three hours of lecture and two-hours laboratory periods per week.

Prerequisite: none



INTRODUCTORY PHYSICS

5 hou

Three hours of lecture and two lab periods per week. A study of mechanics, heat, sound, light electricity, and physical properties of matter. This is non-calculus course which features problem solving and laboratory work.

Prerequisite: either Math 143, 153, or satisfactory score on the MMPT

Phy 175

COLLEGE PHYSICS I

5 hours

A study of mechanics, properties of matter and thermodynamics. Not recommended for math, physical science or engineering students.

Prerequisite: Math 162 and 163 or equivalent

Phy 185 \

COLLEGE PHYSICS II

5 hours

A continuation of Phy 175 including a study of electricity, magnetism, light, and atomic physics. Not recommended for math, physical science, or engineering students.

Prerequisite: Phy 175

Phy 215 GENERAL PHYSICS I

5 hours

Four hours lecture and one lab per week. A study of the mechanissolids, liquids, and gases; study of heat and sound. This courtintended for the student who plans to major in mathematics, the physical sciences, or engineering.

Corequisite: Math 175

Phy 225 GENERAL PHYSICS II

5 hours

Four hours lecture and one lab per week. A study of electricity, magnetism, light and modern physics.

Prerequisite: Phy 215

Corequisite or prerequisite: Math 225

Phy 271 DIRECTED STUDIES IN PHYSICS (HONORS)

1 hour

The student enrolled for directed studies has two alternatives: (1) investigate a specific topic within the field of physics (2) assist in the laboratory, stockroom, or with individualized instruction under the supervision of an instructor.

Prerequisite: Consent of the instructor

POLITICAL SCIENCE

Pol S 124 AMERICAN GOVERNMENT

4 hours

An introduction to the basic principles and structures of American government. Emphasis will be placed on constitutional development and interpretation, the place of government in the social process, the nature of political organization, the processes of the machinery of popular control in the processes of authority and freedom, and the function of the executive, legislative, and judicial branches. State-local relationships, state, county and municipal government and the growth and problems of metropolitan areas are considered. Successful completion of Political Science 124 satisfies Section 170.011 Rs Mo., of the Missouri Statutes in regard to the study of State and Federal Constitutions.

Prerequisite: none

Pol S 213 INTERNATIONAL RELATIONS

3 hours

A study of the major factors underlying international relations: climate and geography, national concepts and institutions, the development of foreign policy. Today's problems of developing nations, East vs. West, and nuclear potentials are considered.

Prerequisite: Pol S 124 or consent of the instructor

Pol S 271 DIRECTED STUDIES IN POLITICAL SCIENCE (HONORS) 1 hour

The student enrolled for directed studies has two alternatives: (1) investigate a specific topic in the field of political science, (2) assist with tutorial political science instruction under the supervision of an instructor.

Prerequisite: Consent of the instructor

PSYCHOLOGY

C 113 GENERAL PSYCHOLOGY

3 hours

A survey of theories and facts dealing with various aspects of human behavior, such as development, perception, motivation and emotion, learning, and personal adjustment.

Prerequisite: none

Psyc 213 PERSONAL AND SOCIAL ADJUSTMENT

3 hours

A study of personality development and successful and unsuccessful processes of adjustment and human effectiveness.

Prerequisite: Psyc 113 or consent of the instructor

Psyc 223 EDUCATIONAL PSYCHOLOGY

3 hou

A study of theories and facts concerning human behavior in such areas as motivation, learning, and social development, as applied to the educational process.

Prerequisite: Psyc 113 or consent of the instructor

Psyc 233 CHILD PSYCHOLOGY

3 hours

A study of development from birth through early adolescence emphasizing physical development, personality development, and the development of social behavior. Relates the development of the child to various aspects of the environment.

Prerequisite: Psyc 113

Psyc 243 APPLIED PSYCHOLOGY

3 hours

A survey of the applications of psychology's principles and methods in business—personnel selection, the working environment, advertising and consumerism—and other professions. Intended primarily for the business or mid-management student, but open to all students.

Prerequisite: Psyc 113

SECRETARIAL SCIENCE

ScS 111 PERSONAL IMPROVEMENT FOR THE

PROFESSIONAL WOMAN

1 hour

A study of personality and physical traits, poise, wardrobe, etiquette, personal grooming, etc. Special emphasis is placed on the above as they relate to the business world.

Prerequisite: none

ScS 113 ELEMENTARY TYPEWRITING

3 hours

The keyboard and techniques of touch typewriting, development of basic skills, and a study of the arrangement of typewritten material.

Prerequisite: none

ScS 123 INTERMEDIATE TYPEWRITING

3 hours

Further development of typewriting skills with special attention given to improving accuracy and increasing speed. Great emphasis

on producing mailable copy on tables, letters, business forms, and rough draft manuscripts under timed conditions.

Prerequisite: ScS 113 or speed of at least 40 wpm for five minib with a maximum of five errors.

ScS 133

ADVANCED TYPEWRITING

3 hours

A continuation of ScS 123 with further development of accuracy and speed in typewritten work. Emphasis on higher production standards and more complex material for mailable copy under timed conditions.

Prerequisite: ScS 123

ScS 142

MACHINE TRANSCRIPTION

2 hours

Training to develop a high degree of proficiency in machine transcription. Through study and supervised practice on transcribing equipment, both typing and transcribing skills will be merged and further ability developed in proofreading, editing, spelling, punctuation, grammar, word usage, good judgement and decision making as applied to business letters, memorandums, and reports.

Prerequisite: ScS 113

ScS 143 /

ELEMENTARY SHORTHAND

3 hours

A study of Gregg shorthand theory and shorthand dictation at moderate rates. Attention is also given to punctuation, spelling, word usage, and reading shorthand notes rapidly.

Prerequisite or Corequisite: ScS 113

ScS 153

INTERMEDIATE SHORTHAND

3 hours

Development of speed and accuracy in writing shorthand from dictation and development of ability to transcribe. Attention is also given to vocabulary, spelling, punctuation, and reading shorthand notes rapidly.

Prerequisite: ScS 143 or consent of the instructor

ScS 163

ADVANCED SHORTHAND

3 hours

Emphasis on ability to take dictation and transcribe mailable copy in conformity with occupational standards. Continued attention on punctuation, word usage, and spelling.

Prerequisite: ScS 123 and ScS 153

ScS 172

OFFICE MACHINES

2 hours

Basic training in the operation and use of adding machines and calculators. Acquaints students with machine terminology, office problems, and work standards.

Prerequisite: none

ScS 182

SECRETARIAL MACHINES

2 hours

Basic training in the operation and use of duplication machines and typewriter with proportional spacing. Acquaintance given to the automatic typewriting process and to copy machines. Acquaints students with machine terminology, office problems, and work standards.

Prerequisite: ScS 113

ScS 192

FILING AND RECORDS MANAGEMENT 2 hours

Filing rules and their application to alphabetic, numeric, subject, and geographic filing. Attention is given to the selection and organization of filling systems, equipment and supplies, retention and disposition of records, and administrative duties.

Prerequisite: ScS 113

ScS 213 ' SECRETARIAL PROCEDURES 3 hours

Business information and office skills applicable to the secretarial or clerical profession. Special attention is given to human relations, organization and maintenance of an office, work efficiency, setting priorities, employment standards, and job information.

Prerequisite: ScS 113

BUSINESS COMMUNICATIONS ScS 223 3 hours

A study of communication needs in the office, both oral and written, with emphasis on inter-office communication, letters, and reports. Special attention is given to organization, mechanics, and the business vocabulary.

Prerequisite: Either Eng 123 or 105 and ScS 123

ScS 271 **DIRECTED STUDIES—SHORTHAND** 1 hour

Continued development of speed and accuracy in writing shorthand and improvement in transcription of mailable copy.

Prerequisite: ScS 143

ScS 291 SECRETARIAL SCIENCE PLACEMENT 1 hour

A course designed to assist secretarial science students in obtaining jobs suitable to their training and interests.

Prerequisite: none

ScS 296 1 INTERNSHIP 6 hours

Supervised work experience in an actual office situation putting to use the skills and related knowledge learned in previous courses. Supervision on the job will be by office personnel. Coordination of work experience to classroom learning will be done by the instructor. Time will be arranged. A seminar will be held for one hour weekly to discuss work experiences and the latest trends in office equipment and techniques gathered through assigned readings in current publications.

Prerequisite: Enrollment in the Secretarial Science Program and consent of the instructor.

SOCIOLOGY

Soc 113 **GENERAL SOCIOLOGY** 3 hours

An introductory course in the field of sociology with special emphasis on the scientific study of social relations, social organizations, social institutions, and social dynamics as related to human behavior.

Prerequisite: none

Soc 123 AMERICAN SOCIAL PROBLEMS

3 hours

A study of select social problems, including consideration of proposed lines of action in dealing with them. Problem areas include population, the affluent society, poverty, urban renewal, delinquency and crime, automation, the aging, ethnic and racial relations, and the role of the United States in the relationship to the underdeveloped areas of the world.

Prerequisite: Soc 113

Soc 213 HUMAN RELATIONS

3 hours

This course is an introduction to the applied principles of sociology and psychology as they relate to human interaction in small groups. Major emphasis is placed on analysis of the interaction process with a view toward additional understanding of individual and group behavior and the problems attendant to leadership.

Prerequisite: Psyc 113

Soc 223 Y THE FAMILY

3 hours

The study of the family as an agency of personality development, and cultural transmission, including a study of the family in relation to the structure and function of wider forms of social organization.

Prerequisite: Consent of the instructor

SPANISH

Span 115 ELEMENTARY SPANISH I

5 hours

An introductory Spanish course stressing basic language stills: listening comprehension, speaking, reading, and composide Additional audio-lingual practice through use of the learning laboratory.

Prerequisite: none

Span 125 / ELEMENTARY SPANISH II

5 hours

A continuation of Spanish 115. Prerequisite: Spanish 115.

Span 213

SPANISH READINGS

3 hours

Selected readings in prose and poetry along with grammar review, vocabulary building, and additional audio-lingual practice.

Prerequisite: Spanish 125 or consent of the instructor.

Span 222 SPANISH COMPOSITION

2 hours

A review of Spanish grammar with practice in composition. Prerequisite: Spanish 125 or consent of the instructor Span 233

SPANISH: CONVERSATION: 13

3 hours

Practice in conversation with emphasis on perfecting pronunciation.

Prerequisite: Spanish 125 or consent of the instructor

SPEECH

Spe 103

ORAL COMMUNICATIONS

3 hours

A fundamentals of speech course providing an introduction to the study of oral communication as rhetorical dialogue. The course is designed to develop student improvement in the critical understanding of ideas about rhetorical communication as well as the critical issues of our time, and subsequently to improve individual communications skills.

Prerequisite: none

Spe 113

PUBLIC SPEAKING

3 hours

An introduction to the basic elements of public speaking. Assignments include the presentation of speeches, preparation of outlines, and the discussion of evaluation techniques.

Prerequisite: Spe 103 or consent of the instructor

Spe 123

ORAL INTERPRETATION

3 hours

Study in the basic techniques of oral interpretation. The recreation of literature is stressed through acquiring the skills and techniques necessary to convey the intellectual, emotional, and aesthetic values of literature to an audience. The course will include study in the oral interpretation of prose, drama, and poetry.

Prerequisite: none

Spe 133

INTRODUCTION TO: THE THEATRE

3 hours

An appreciation course designed to give a comprehensive introduction to theatre, including theatre history and contributions made by directors, actors, designers, technicians and playwrights to modern dramatic productions.

Prerequisite: none

Spe 271, 272, 273 ⊬

DIRECTED STUDIES IN COMMUNICATION OR

THEATRE ARTS

1-3 hours

Independent study in the many and varied aspects of the theatre for the advanced student. This could include study in acting, directing, costuming, make-up, scene design and construction, stage lighting, dramatic theory and history. Experimental research and studies of the theories of communication are also possible.

Prerequisite: Consent of the instructor

Spe 281, 282, 283

THEATRE PRACTICUM

1-3 hours

The objective of the Theatre Practicum course is to give interested students the opportunity to work in a controlled theatrical environment designed to provide experience and training in the theatre arts under the direct supervision of a theatre instructor.

Prerequisite: Consent of the instructor

TEACHER AIDE

Teac A 213 ₹ TEACHER AIDE SEMINAR



A seminar providing the opportunity for Teacher Aide students to discuss the field of Teacher Aide work, and to share the experiences and problems they have encountered in their role as Teacher Aide Interns. Moderated by a college staff member, the seminar serves as the vehicle to tie coursework and experience together in a relevant manner.

Prerequisite: Sophomore standing

Teac A 271,

TEACHER AIDE INTERNSHIP

1-3 hours

z 272, 273 ·

Supervised work experience in an actual educational setting, coordinated with the student's regular classwork, to provide a realistic view of the varied duties of a Teacher Aide.

Prerequisite: Consent of the instructor

Teac A 291 /

TEACHER AIDE PLACEMENT

1 hour

A course designed to assist Teacher Aide students in obtaining jobs suitable to their training and interests.

Prerequisite: none

