

460. Special Problems

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 10 credits. Approval of department.

471. Dairy Seminar

Spring. 1(1-0) Seniors.

Review and integration of information leading to successful operation of the dairy enterprise. Present day trends and problems. Introduction to evaluation and interpretation of scientific reports.

850. Topics in Dairy Science

Fall, Winter, Spring. Variable credit. May re-enroll for credit. Approval of department.

Topics from breeding, management, nutrition, or physiology, changing from term to term to include recent technical advances.

899. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

ECONOMICS

EC

College of Business

Courses are classified as follows:

Labor Economics and Industrial Relations—305, 455, 456, 457.

Money and Banking—318, 322, 330.

International Economics—427.

Public Finance—406, 407, 408.

Price and Value Theory—324, 325, 426.

Income and Employment Theory—320, 322, 451, 452.

History of Economic Thought—421, 422.

Industrial Organization and Control—444, 445, 446, 448.

Economic Development, Regional Studies, and Comparative Economics Systems—360, 430, 431, 434.

200. Introduction to Economics

Fall, Winter, Spring, Summer. 4(4-0) Open to Freshmen. Students may begin sequence with either 200 or 201.

Problem of unemployment; meaning and determination of national income; the multiplier; the accelerator; fiscal policy; deficit spending; monetary policy; banks creation of money; international aspects of the employment problems.

201. Introduction to Economics

Fall, Winter, Spring, Summer. 4(4-0) Open to Freshmen. Students may begin sequence with either 200 or 201.

Problem of resource allocation; price determination (demand, supply), applications to agricultural policy; diminishing returns; behavior of the firm (determination of quantity of output, hiring of factors); aspects of international trade.

210. Fundamentals of Economics

Fall, Winter. 4(4-0) MTH 215 or 228; or concurrently. Students may not earn credit in 210 if they have credit in either 200 or 201.

Introductory course in economic theory, employing mathematics, when useful, as a tool analysis. Covers consumer and business behavior, markets and the price system, income distribution, and elements of employment theory.

251H. Households, Firms and Markets

Fall. 5(5-0) Honors College students. Microeconomic theory and its applications to analysis and policy. Substitutes for 201, 324 and 325.

252H. Aggregative Economics and Public Policy

(250H.) Winter. 5(5-0) Honors College students.

Theory of national income and its application to analysis and policy. Substitutes for 200, 318, and 320.

305. Industrial Relations and Trade Unionism

Fall, Winter, Spring, Summer. 5(5-0)

Development, aims, structure, and functions of labor and employer organizations. Their relation to economic, political, and legal institutions and their impact on society. Primary issues in collective bargaining.

318. Money, Credit and Banking

Fall, Winter, Spring, Summer. 4(4-0) 200 or 210.

Commercial banking and the money supply. The Federal Reserve System, the Treasury, and other financial institutions. Sources and uses of funds in the financial market.

320. Income and Employment Theory

Fall, Winter, Spring, Summer. 3(3-0) 200 or 210.

The forces that determine the general level of prices, output and employment.

322. Monetary Theory

Fall. 3(3-0) 320.

Relationship between money and interest rates, prices and output.

324. Price System I

Fall, Winter, Spring, Summer. 3(3-0) 201 or 210 or approval of department.

Behavior of business firms under fully and imperfectly competitive conditions. Pricing of products and productive resources.

325. Price System II

Winter, Spring, Summer. 3(3-0) 324.

Effects of changes in conditions of supply and demand under alternative market structures. Introduction to general equilibrium and welfare economics.

330. Investments and Security Markets

Fall, Spring. 3(3-0) 200 or 210, Juniors.

The stock market; principles of investment; analysis of selected industries and corporations; regulation by the Securities and Exchange Commission.

360. Economies of Selected Areas

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. 200 and 201, or 210.

Economic characteristics and problems of one of the following areas, with emphasis on economic development: (a) Asia; (b) Soviet Union; (c) Latin America; (d) Africa; (e) other.

400. Independent Study

Fall, Winter, Spring, Summer. 1 to 4 credits. Seniors or approval of department.

Research and reading course for students interested in doing independent work in economics.

406. Public Finance

Fall, Summer. 4(4-0) 200 or 210.

Public spending, revenue collection and public borrowing, with analysis of their nature, origin and economic effects.

407. Public Revenues

Winter. 4(4-0) 201 or 210.

Principles and theory of the distribution of tax burdens and the incidence of taxation. Income, sales, property, and other major revenue sources.

408. State and Local Finance

Spring. 4(4-0) Juniors.

Fiscal problems at the state and local levels of government, including revenues, expenditures, borrowing, and intergovernmental fiscal relations.

417. Land Economics

Fall, Spring. 4(4-0) 201 or AEC 240, or approval of department. Interdepartmental with the Agricultural Economics and Resource Development Departments and administered by the Resource Development Department.

Factors affecting man's economic use of land and space resources. Input-output relationships; development, investment, and enterprise location decisions. Land markets; property rights; area planning; zoning and land use controls.

421. Economic Thought I

Fall, Summer. 4(4-0) 200 and 201, or 210.

Forerunners of classical economics. Development of classical economic thought from Adam Smith to J. S. Mill. The Socialist reaction.

422. Economic Thought II

Winter, Spring. 4(4-0) 200 and 201, or 210.

The decline of classical economics and the rise of marginalist value and distribution theory. Marxism and institutionalism.

426. Introductory Mathematical Economics

Spring. 3(3-0) 320, 324; MTH 214.

Mathematical analysis of production, cost, and consumer choice. Mathematical models of aggregative and general-equilibrium economic systems.

427. International Trade and Finance

Fall, Winter, Spring, Summer. 5(5-0) 200 and 201, or 210.

Theory of comparative advantage. Tariffs, quotas, and customs unions. Mechanism of balance of payments adjustments. Exchange rate determination and international financial relationships.

430. Stagnation and Development in Emerging Societies

(350.) Winter, Summer. 4(4-0) 200 and 201, or 210.

Obstacles to economic growth, theories of economic development, reorganizing agriculture and industry; problems in mobilizing the economy to accommodate new productive techniques; population problems.

431. Principal Issues in Promoting Economic Development

(351.) Spring. 4(4-0) 430.

Structural change and growth, capital formation and investment criteria; financing development; foreign trade and finance in development; government and planning.

434. Comparative Economic Systems

Fall, Winter, Summer. 4(4-0) 200 and 201, or 210.

Characteristics and functions of an economic system. Analysis of alternative patterns of economic control, planning and market structure. Experiences under capitalism, socialism and mixed economies. Consideration of their theories and philosophies.

444. Private Enterprise and Public Policy

Fall, Winter, Spring, Summer. 3(3-0) 201 or 210.

Competition and monopoly in the American economy. Problems of antitrust.

445. Economics of Regulated Industries

Winter. 4(4-0) 444.

Government policy and role of competition in the public utility and transportation industries.

448. Structure of American Industry

Spring. 3(3-0) 444.

Analysis and critique of industry structure, behavior, and performance. The functions of public control.

451. Methods of Economic Research and Forecasting

Spring. 3(3-0) 320, 324; STT 123.

Research design and testing economic hypotheses. Elementary methods of projection, forecasting and estimation. Index numbers and construction. Major data sources.

452. Introduction to Economic Fluctuations

Winter. 3(3-0) 320.

Leading theories of economic fluctuations. Phases of the cycle. Methods of alleviation.

455. Public Policy and Labor Relations

(308.) Winter, Spring, Summer. 5(5-0) 305.

Evolution of public policy concerning trade unions and collective bargaining. Causes and effects of labor-management disputes; public and private methods and agencies for dispute settlement.

456. Economics of Social Security

Spring. 3(3-0) 305 or Seniors.

Problems of unemployment, old age, and medical care from standpoint of economic theory, political philosophy, and our changing economic and social structure. Workmen's Compensation Laws, Railroad Retirement Act, Civil Service Retirement Act, and Social Security Act.

457. Manpower Economics

Fall, Winter, Summer. 5(5-0) 200 and 201, or 210.

Leading theories explaining wage determination, wage differentials and trends in wage structure. Labor force composition, distribution of unemployment, labor mobility, and manpower utilization. Data sources and forecasting methods.

460. Location Analysis

Winter. 4(4-0) 324, or R D 417 or AEC 401. Interdepartmental with and administered by the Resource Development Department.

Forces affecting location decisions of firms, households, and governments. Applications to agricultural, industrial, and regional developments.

499H. Honors and Senior Seminar

Fall, Spring. 4(4-0) May re-enroll for a maximum of 8 credits. Honors College students or economics seniors with 3.20 grade point average; 251H and 252H recommended.

Directed reading and student research in contemporary economic problems.

800. Economic Analysis I

Fall, Winter. 4 credits. 324 or 325. Students may not receive credit in both 800 and 811.

Determinants of prices and outputs. Consumer choice. Theory of competitive and monopolistic markets.

801. Economic Analysis II

Winter, Spring. 4 credits. 800 or 811. Students may not receive credit in both 801 and 812.

Monopolistic and oligopolistic competition. General equilibrium analysis. Aggregate income and employment theory.

802. Economic Analysis III

Spring, Summer. 4 credits. 801 or 812. Students may not receive credit in both 802 and 813.

Aggregate income and employment theory. Study of money and credit as related to income, employment and prices.

803. Seminar in Industrial Relations

For course description, see Interdisciplinary Courses.

806A. Fiscal Policy

Fall. 3 credits. Approval of department.

Economics of government surpluses, deficits, and debt. Examination of fiscal theories and programs to maintain economic stability, high level employment and income, economic progress, and other goals.

806B. Public Revenues

Winter. 3 credits. Approval of department.

Theory and development of revenue systems. Incidence and economic effects of taxes. Studies of selected national, state and local revenue structures for comparative analysis.

806C. Government Finance

Spring. 3 credits. Approval of department.

Revenue adequacy, fiscal controls, intergovernmental fiscal relations, tax burdens, subsidies, government costs and benefits.

811. The Price System

Fall. 3(3-0) 324 or 325 or approval of department. Students may not receive credit in both 800 and 811.

The determination of prices and outputs and the welfare implications of such determination. Topics included are consumer choice; the theory of markets, ranging from perfect competition through monopolistic and oligopolistic competition to monopoly; the theory of the firm and the industry; and welfare economics.

812. The Price System

Winter. 3(3-0) 811. Students may not receive credit in both 801 and 812.

Continuation of 811.

813. Macroeconomics I

Winter. 3(3-0) 320. Students may not receive credit in both 802 and 813.

Keynesian and post-Keynesian aggregate income and employment theory, concentrating upon the theoretical aspects of the analysis.

814. Macroeconomics II

Spring. 3 credits. 813.

Macroeconomics with special emphasis on the monetary and fiscal theory. Keynesian and quantity theories. Say's law. Determination of interest rate.

818. Monetary Theory and Policy

Fall, Winter. 4 credits. May re-enroll for a maximum of 8 credits. 318, 320.

Fall: Study of money, credit and liquidity as related to income, employment and prices.

Winter: Study of the goals and effectiveness of monetary and banking policy.

821A. Competition and Monopoly in American Industry

Fall. 3 credits. Approval of department.

Examination of structure, behavior, and performance in industries.

821B. Government Policy Toward Private Enterprise

Winter. 3 credits. Approval of department.

Evolution of government policy with respect to such problems as conspiracy, monopoly, mergers, unfair practices, and discrimination. Economic and legal appraisal of policy alternatives.

821C. Problems Related to Regulated Industries

Spring. 3 credits. Approval of department.

Departures from market competition as a policy norm, as in public utilities and transportation.

826A. Theory of International Trade

Fall. 3 credits. 427 or approval of department.

Classical and modern theories of international trade. Application of modern techniques of economic analysis to international trade theory.

826B. Theory of International Trade Policy

Winter. 3 credits. 826A.

Various means by which a government may influence the volume, character, and direction of its foreign commerce. In this connection an analysis is made of the theory of the tariff, the subsidy, exchange control, and quotas. Emphasis on the economic impact of trade controls upon a nation and the world.

826C. International Exchanges and Capital Flows

Spring. 3 credits. 826B.

Theory of exchange rates and international money markets especially with reference to other than current account items in balances of payments. Analysis of sources, causes, effects of capital flows with developing economies considered as a special case.

831. Mathematical Economics I

Fall. 3(3-0) 812; MTH 214, 334.

Economic behavior of firms, households, commodity markets. Relation of traditional theories to programming models, theory of games and other decision theories. Dynamic models of behavior. Equilibrium of multiple markets.

832. Mathematical Economics II

Winter. 3(3-0) 813; MTH 215, 334.

Mathematical models of growth and fluctuations dealing with macroeconomics, monetary theory, fiscal policy. The cobweb, static and dynamic multipliers, multiplier-accelerator models, trade cycle models. Relations among stocks, flows and time lags.

833. Mathematical Programming

(875). Spring. 3(3-0) 800 or 811; MTH 334. Interdepartmental with the Agricultural Economics, and Statistics and Probability Departments and administered by the Agricultural Economics Department.

Linear programming. Theory of linear economic models. Topics in nonlinear programming.

835. Econometrics and Price Analysis

(AEC 831.) Fall, Spring, Summer. 3(3-0) 325; STT 422. Interdepartmental with the Agricultural Economics Department.

Specification, estimation and interpretation of economic models. Applications to empirical problems.

838. Interdisciplinary Seminar on Africa
For course description, see Interdisciplinary Courses.

841A. History of Economic Thought: Classical
Fall. 3(3-0)

Early thought, mercantilism, physiocracy, and classical economics.

841B. History of Economic Thought: Heterodox
Winter. 3(3-0)

Historicism, socialism, and institutionalism.

841C. History of Economic Thought: Modern
Spring. 3(3-0)

Development of marginalism, general equilibrium theory, employment theory, and mathematical economics.

850. The Development of Economic Institutions

Fall. 3(3-0) 430 or approval of department.

Cross-cultural analysis of factors influencing the organization of economies. Motivation, values, and technological change. Growth of markets, entrepreneurship, industrial labor force and the diffusion of knowledge.

851. The Economics of Secular Change

Winter. 3(3-0) 320, 324, or approval of department.

Empirical studies of long-run economic trends and a consideration of alternative hypotheses explaining these trends including classical, Marxian, Harrod-Domar, and other general theories of economic development. Population growth, technological change, capital formation, occupational distribution, urbanization, and international trade.

852. Economic Problems of Underdeveloped Areas

Spring. 3(3-0) 320, 324, or approval of department.

Overcoming problems relating to early stages of economic development; investment priorities, mobilizing savings, balance of payment considerations; and policies and programs of various types.

854. The Emergence of Commercial Capitalism

Winter of odd-numbered years. 3 credits. 318, 324. Interdepartmental with the History Department.

The rise of the mercantilist economies of Europe with stress on the growth of internal and international trade and finance during the 16th and 17th centuries.

855. The Industrial Revolution in Europe

Winter of even-numbered years. 3 credits. 318, 324. Interdepartmental with the History Department.

The preconditions that led to the momentous changes in agriculture and industry in Europe from 1700-1914.

857. Wage Theory

(856C.) Fall. 3 credits. 320, 324, or approval of department.

Advanced analysis of: theories of wage determination; labor market research, economic effects of collective bargaining upon the national wage structure, output, employment, distribution of national income, the price level; nature and effects of government wage policies.

858. Industrial Relations

(856A.) Winter. 3 credits. 305 and approval of department. Open to graduate students in economics and related fields such as labor and industrial relations, psychology, sociology, anthropology, political science, business, and history.

Problems and issues in the administration and negotiation of collective bargaining agreements; includes both economic and noneconomic aspects of industrial relations policies and practices.

859. Labor Legislation and Public Policy

(856B.) Spring. 3 credits. 305 or approval of department.

Criteria for public policy concerning unions and collective bargaining; current problems in labor legislation; role of federal and state governments in industrial relations; decision-making process in labor legislation.

860. Economics of the Firm

Fall, Winter, Spring, Summer. 4 credits. Graduate students in Business Administration. Not open to majors. Students with little background in economics should familiarize themselves with materials in 324.

Analysis of the firm. Problems facing management; economizing in use of resources, optimal combinations of products, pricing, competitive forces in markets affecting the firm.

861. American Economy

Fall, Winter, Spring, Summer. 4 credits. 860 or approval of department. Not open to Economics and Agricultural Economics majors.

Determinants of the national income, employment, and capital formation. National income accounts. Business fluctuations. Fiscal and monetary policy.

862. Business and Public Policy

Fall, Winter, Spring. 4 credits. 860 or approval of department. Not open to majors.

Problem of government regulation of business. Economic models which relate to regulation. Regulatory legislation, regulatory bodies, and alternatives available.

876. Statistical Inference in Economics I

Fall. 3(3-0) 812 or 801; STT 443 or 863; or approval of department. Interdepartmental with the Argicultural Economics, and Statistics and Probability Departments.

Review and extension of single-equation regression models. Properties of least-squares estimators under alternative specifications. Problems of analyzing nonexperimental data. Errors in variables, autoregressive and heteroscedastic models.

877. Statistical Inference in Economics II

Winter. 3(3-0) 876 or approval of department. Interdepartmental with the Argicultural Economics, and Statistics and Probability Departments.

Specification interpretation and estimation of simultaneous equation models. Nonlinear models. Bayesian approach to estimation problems. Recent developments in econometrics.

878. Statistical Inference in Economics III

Spring. 3(3-0) 877 or approval of department. Interdepartmental with the Argicultural Economics, and Statistics and Probability Departments.

Validation and application of dynamic econometric models. Bayesian approach to estimation problems. Recent developments in econometric methods and in applied econometric research.

879. Interdisciplinary Seminar: Behavioral and Historical Approaches to Problems of Selected Foreign Areas

For course description, see Interdisciplinary Courses.

895. Graduate Reading in Economics
Fall, Winter, Spring, Summer. Variable credit.

899. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

911. Theory of the Firm and the Consumer

Fall, Summer. 3(3-0) 812 or approval of department.

Imperfect markets, rational behavior and other advanced topics.

912. Activity Analysis in Economic Theory

Winter. 3(3-0) Approval of department.

Linear programming, with an introduction to the theory of games. Production with fixed technical preparations.

913. General Equilibrium Economics

Winter. 3(3-0) 813 or approval of department.

General equilibrium economics: statics and dynamics. General equilibrium economics involving time and risk. Integration of the micro-theories of production, consumption and markets with the macroeconomic variables. Dynamics as development through time.

914. Welfare Economics

Spring. 3 credits. 812 or approval of department.

Individual values, Pareto optimality and social welfare.

915. Economic Dynamics

(804.) Spring. 3(3-0) 811 and 813 or approval of department.

Models of economic behavior over time with emphasis on stability conditions, the trade cycle, and economic growth.

972. Methodological Approaches to Research

Fall of even-numbered years, Summer of odd-numbered years. 3(3-0) Two terms of graduate study in social science or approval of department. Interdepartmental with and administered by the Argicultural Economics Department.

Selection, planning and conduct of research. Alternative research approaches. Role of theory, beliefs and valuations. Critical appraisal of research studies.

990A. Monetary Theory and Policy Workshop

Winter, Spring. 3 to 16 credits. 812, 814, or approval of department.

Critical evaluation of research reports by staff and other students. Students writing doctoral dissertations in the appropriate areas are encouraged to participate in workshop and may do so while registered for 999.

990B. Industrial Organization and Public Policy Workshop

Fall, Winter, Spring. 3 to 16 credits. 812, 821A, or approval of department.

Critical evaluation of research reports by staff and other students. Students writing doctoral dissertations in the appropriate areas are encouraged to participate in workshop and may do so while registered for 999.

990C. Mathematical Economics and Econometrics Workshop

Fall, Winter, Spring. 3 to 16 credits. 812, 832; or approval of department. Interdepartmental with the Agricultural Economics Department.

Critical evaluation of research reports by staff and other students. Students writing doctoral dissertations in the appropriate areas are encouraged to participate in workshop and may do so while registered for 999.

999. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

EDUCATION

ED

College of Education

101. Introduction to Teaching

A. ELEMENTARY EDUCATION.

Fall, Winter, Spring. 1(1-0)

Teaching profession, American educational heritage, teaching of children and youth, preparation and opportunities.

B. SPECIAL EDUCATION.

Fall, Winter, Spring. 1(1-0) Freshmen and Sophomores only.

Opportunities in education of children and youth impaired in vision, hearing, mental ability, emotional adjustment, speech and physical handicaps.

124. Introduction to Careers in Vocational and Practical Arts Education

Opportunities in teaching agriculture, business, home economics or industrial education and in closely related fields; analysis of student's potentialities for these fields.

A. AGRICULTURE.

Fall. 2(1-2)

B. BUSINESS AND DISTRIBUTIVE EDUCATION.

Fall, Winter. 2(2-0)

C. HOME ECONOMICS.

Spring. 2(2-0)

D. INDUSTRIAL ARTS.

Winter and Fall of even-numbered years, Spring of odd-numbered years. 2(2-0)

141A. General Industrial Arts

Winter and Fall of odd-numbered years, Spring of even-numbered years. 3(0-6) Approval of department.

Introductory experiences in all major areas of industrial arts. Organized under a comprehensive general shop organization similar to that utilized in the modern secondary school.

141B. General Woodwork

Winter and Fall of odd-numbered years, Spring of even-numbered years. 3(0-6) Approval of department.

Handwork, patternwork, carpentry, introductory machinework, finishing. Designed to exemplify, in both organization and equipment, desirable practices in today's secondary schools.

200. Individual and the School

Fall, Winter, Spring, Summer. 5(3-2) Sophomores.

Major psychological factors in the school learning-teaching situation; concepts in human development related to problems in the school situation; teacher's role in motivation, conceptual learning, problem solving, and the development of emotional behavior, attitudes and values; learning of skills; retention and transfer; and measurement of student abilities and achievement.

200A. Educational Psychology

Fall, Winter. 3(3-0) Approval of department.

Same goals as Education 200, but assumes a background in general psychology.

241A. Advanced Woodwork

Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) 141B or approval of department.

Safe operation of woodworking machines in home and school shop. Care and maintenance of shop tools and equipment.

241B. General Metalwork

Winter and Fall of odd-numbered years, Spring of even-numbered years. 3(0-6) Approval of department.

Bench metal, sheet metal, forging, welding, plating, casting, and machining. Designed to exemplify desirable facilities and course organization for the modern secondary school.

241C. Industrial Arts Crafts

Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) Approval of department.

Typical crafts in outstanding public school programs of industrial arts. Work in plastics, leather, silver, aluminum, copper, metal enameling, lapidary, ceramics, and model making.

241D. Printing and Graphics

Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) Approval of department.

Hand composition, press work, printing, book-binding, block printing, plate making, silk screen work, and photography. Designed to exemplify a desirable approach to the work of this area in the modern secondary school.

312. Human Growth and Development

Fall, Winter, Spring, Summer. 4(2-4) 200.

Growth of children from birth to adolescence and techniques for measurement. Problems of adjustment and physiological and psychological factors associated with them. Young children observed and studied in laboratory and natural situations.

321. Curriculum, Methods, and Materials

Bases, scope, and sequence of curriculum in reading, language arts, and social studies; adaptation of principles to methods and materials of teaching in the elementary and middle school.

A. ELEMENTARY EDUCATION

Fall, Winter, Spring, Summer. 3(2-1)

Must be taken immediately prior to student teaching, concurrently with 321B, 321C. Must have completed September teaching experience and have 2.0 scholastic average.

B. ELEMENTARY MATHEMATICS AND SCIENCE

Fall, Winter, Spring, Summer. 5(4-2)

Concurrently with 321A; 321C; MTH 201; B S 202; PHS 203.

C. ELEMENTARY LANGUAGE ARTS AND SOCIAL STUDIES

Fall, Winter, Spring, Summer. 7(6-3)

Concurrently with 321A, 321B.

325A. Methods of Teaching Reading in the Elementary School

Fall, Winter, Spring, Summer. 3(3-0) 200.

Methods and materials of instruction of reading at elementary level. Analysis of learning and teaching problems, and study of concrete materials and classroom attack. Consideration of practical bearings of research and progressive theory on current practice.

325B. Teaching of Language Arts in Elementary Grades

Fall, Winter, Spring, Summer. 3(3-0) 200.

Course to acquaint prospective elementary teachers with content material and methods in language arts for grades below the seventh. Students also given opportunity to acquire skills in manuscript and blackboard writing.

325C. Children's Literature

Fall, Winter, Spring, Summer. 3(3-0) 200, Juniors.

Designed to acquaint elementary school teachers with wide variety of reading materials suitable for various grade levels below junior high school.

325D. Teaching of Social Studies in Elementary Grades

Fall, Winter, Spring, Summer. 3(3-0) 200.

To help students develop understanding of philosophy and aims of social studies movement in elementary schools, and ability to further such aims through familiarity with a variety of materials, knowledge of social studies subject matter, and competence in using a variety of methods.

325E. Teaching of Mathematics in Elementary Grades

Fall, Winter, Spring, Summer. 3(3-0) Juniors, 200.

Presents methods and materials for teaching mathematics in the elementary school. Methods and techniques of presenting mathematics content meaningfully to elementary pupils will be illustrated.

325F. Teaching Science in the Elementary School

Fall, Winter, Spring, Summer. 3(3-0) 200, Juniors, N S 193.

Extends the science background of prospective elementary teachers. Emphasis is placed upon methods and materials for science in elementary classrooms.

325G. School Music Instrumental Methods

Fall. 3(2-2) Instrumental music major.

Instrumental instruction program at elementary level.

325H. School Music Vocal Methods

Fall. 4(3-2) Approval of the Music Department.

Basic instructional program in primary and intermediate grades.

327. Methods of Teaching—Secondary

Specifics of classroom instruction in the various subject-matter fields. Selection of presentation and evaluation techniques based on recognized course objectives.

A. AGRICULTURE.

Winter. 5 credits. 200.

B. ART.

Fall, Winter, Spring. 5 credits. 200.

C. BUSINESS AND DISTRIBUTIVE EDUCATION.

Fall, Winter, Spring. 5 credits. 200.

D. ENGLISH.

Fall, Winter, Spring, Summer. 5 credits. 200.

E. ROMANCE LANGUAGES.

Fall, Winter, Spring. 5 credits. 200.

F. HEALTH.

Spring. 5 credits. 200.

G. PHYSICAL EDUCATION.

Fall, Winter, Spring. 5 credits. 200.