

1963

Graduate Catalog, 1963

Valparaiso University

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VALPARAISO UNIVERSITY BULLETIN

PROGRAM FOR THE
master of arts
in
LIBERAL STUDIES

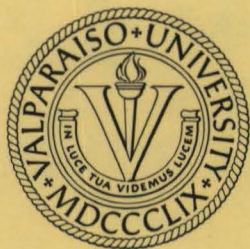
VALPARAISO UNIVERSITY

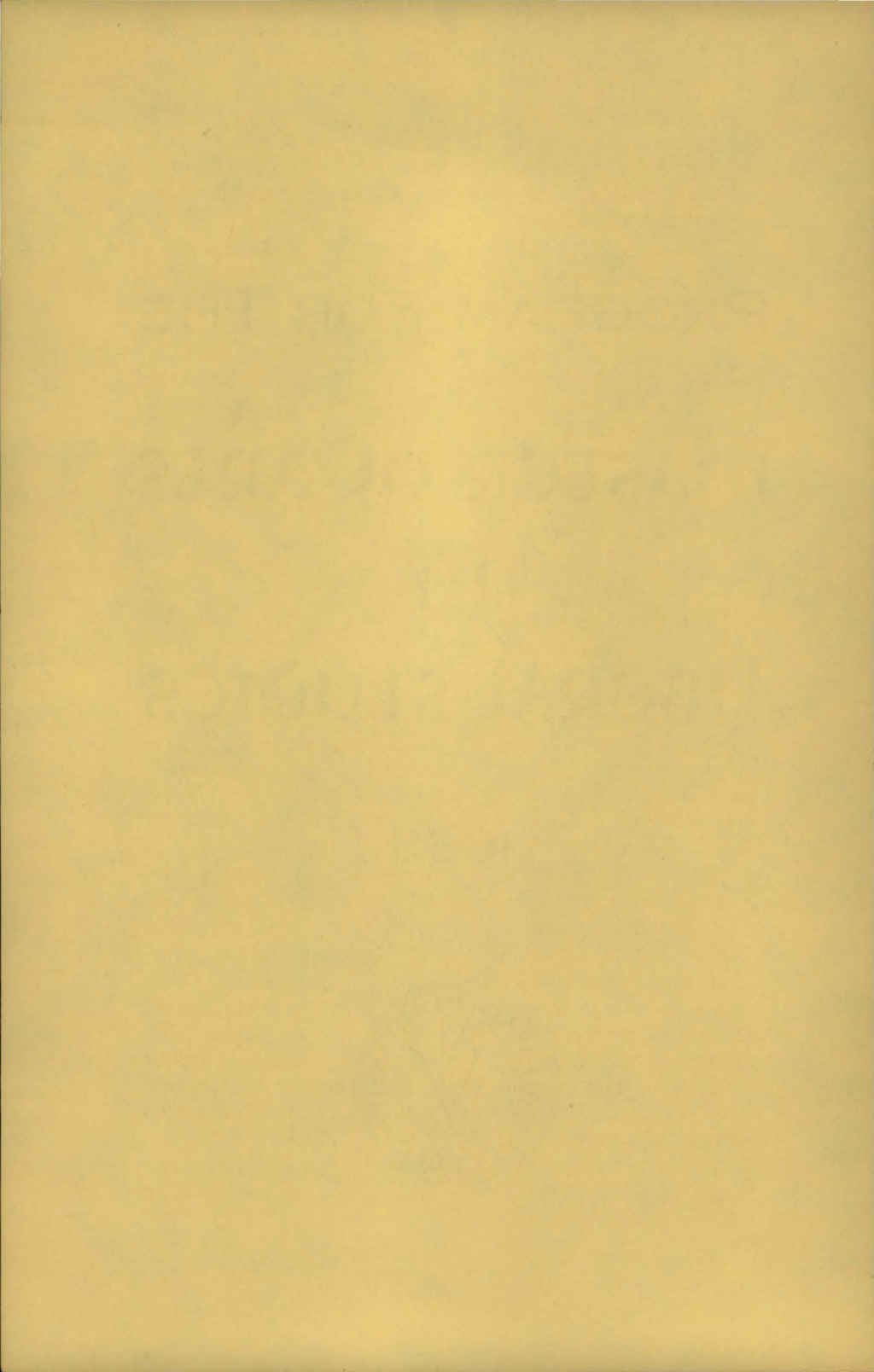
VALPARAISO, INDIANA

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PROGRAM FOR THE
master of arts
in
LIBERAL STUDIES

1963





Valparaiso University announces the offering of a program of graduate studies leading to the degree Master of Arts in Liberal Studies, beginning with the summer session, 1963, and in late afternoon and evening courses during the school year.

The University has been at work upon the development of the graduate program since 1956. In presenting graduate courses it is seeking to fulfill an objective of the Lutheran University Association when it acquired the plant in 1925 to make the institution a Christian center of advanced study. The University also desires through this new program to broaden its educational service to the constituency in its area. Several observers have said that there are elements of uniqueness in the proposed program, both in breadth and depth, which make it unusual in American higher education.

nature of the program

The graduate degree offered is the Master of Arts in Liberal Studies. The program is broad in scope, offering opportunities for study in several fields, with a limited concentration required in two areas. Two basic two-hour courses in The Western Tradition are required of all students, providing an integrating core. The student is then required to present sixteen hours of work distributed according to his election between two subject fields. The remaining ten of the thirty hours required are free electives. All of them may be in professional education.

This program provides a particularly challenging opportunity for pastors and other professional workers in the church who wish to strengthen their preparation and secure breadth of background in academic areas.

It also provides for the needs of both elementary and secondary classroom teachers who wish to work toward advanced certificates. They will be able to adjust their programs within the fields of concentration and the electives so as to strengthen their subject matter competence and, if they desire, also to add to their professional training in education.

Frequent conferences have been held with the Indiana State Department of Public Instruction in an effort to

arrange a program that will meet the requirements of teachers, both elementary and secondary, who wish to qualify for the Professional Certificate. It is expected that the program will ultimately meet the requirements for certification in most other states.

ADMINISTRATION

The graduate work is under the general supervision of the President and the Faculty. Policies are determined by the Graduate Council. A Director of Graduate Studies administers the program. He is advised by the Graduate Council and carries out the regulations which it enacts.

The Director assigns an adviser to every student admitted to the graduate program.

Students who are working toward qualifying for teaching certificates will be assigned an adviser in the Department of Education. If necessary, they will be assigned an additional academic adviser.

ACADEMIC REQUIREMENTS

ADMISSION

Applicants must be graduates of accredited colleges or universities, with a standing of at least 1.5 (C=1) in all work attempted. A transcript of undergraduate work and a completed form for admission must be presented to the Graduate Council for evaluation.

To become a candidate for a degree, the student must have completed at least six semester hours in residence, with a standing of at least 2.0 (B). The candidate must file a letter of intent and a tentative program of study. Admission to candidacy is a separate step from admission to the graduate program, and requires separate approval by the Graduate Council.

REQUIREMENTS FOR THE DEGREE

To be eligible for the master's degree students must

complete at least thirty semester hours, distributed as follows:

- (1) 16 semester hours in two subject matter fields
- (2) 4 semester hours in the courses entitled The Western Tradition I and The Western Tradition II
- (3) 10 semester hours in education or electives

The sixteen semester hours in two subject matter fields may be evenly divided between the fields or all but two hours may be taken in a single field. At least eight of the sixteen semester hours required in the two subject matter fields and at least fifteen of the thirty semester hours presented for the degree must be in courses open only to graduate students.

Students must maintain a grade point average of 1.8 (B=2.0) in all work undertaken at Valparaiso University for the master's degree. Graduate credit may be received for A, B, and C grades, but not more than six semester hours of C work may be counted toward the degree.

A maximum of six semester hours of transfer credit from another institution will be accepted for the degree, and no transfer course presented with a grade of less than B will be considered. All requests for transfer credit must be evaluated by the Graduate Council.

Candidates for the degree must complete at least one semester or two summer sessions in full time residence at the University. Not more than fifteen semester hours of work for graduate credit may be carried in any one semester, nor more than eight semester hours of credit in any summer session of eight weeks. All work for the master's degree must be completed within a period of seven calendar years from the date of the student's initial enrollment in the program.

APPLICATION FOR GRADUATION

To receive the degree, students must make formal application to the Director of Graduate Studies within the

first week of the term in which they expect to be graduated. They must give evidence that they have fulfilled all requirements for the degree and receive the approval of the Graduate Council.

FACILITIES

HENRY F. MOELLERING MEMORIAL LIBRARY

The newly constructed modern library is air-conditioned and provides comfortable and pleasant surroundings for study. It is a two-story structure with three stack levels. Reading space is provided for 500 persons and stacks contain in excess of 150,000 volumes. The main level consists of two large reading rooms, lobby, circulation desk, catalogue file, lounge, and offices. Also located on the main floor are the Sloan Galleries of American Paintings and their extensive collection of works by American artists.

UNIVERSITY BOOKSTORE

The University's modern, self-selection bookstore is operated for the convenience of students in the purchase of books, supplies, and other necessary materials for classwork and daily living. Students should purchase textbooks before the second class meeting.

LIVING ACCOMMODATIONS

In summer sessions, comfortable living accommodations on campus are provided graduate students at a rate of \$60.00 per person.

Graduate students will reside in modern university dormitories. The residence halls, with floors reserved for graduate students, are within a short walking distance of all classrooms.

Meals may be obtained at the Valparaiso Union located near the residence halls.

All requests for living accommodations must be made in advance of registration.

CULTURAL AND RECREATIONAL OPPORTUNITIES

The University is less than fifty miles, or an hour's drive, from the city of Chicago with its cultural opportunities offered by great libraries, museums, art galleries, and concert halls.

For recreational activity, the University's new swimming pool and modernized gymnasium, as well as Lake Michigan, Dunes State Park, and golf courses are easily accessible.

*SUMMER SESSION FEES

Application Fee \$ 10.00

This fee applies only to those students enrolling at the University for the first time and is payable once upon initial application. It must accompany the application for admission.

Matriculation Fee 5.00

This fee is payable only once when the student enrolls in his first course.

Tuition for six or more semester hours 150.00

General fees for all students 15.00

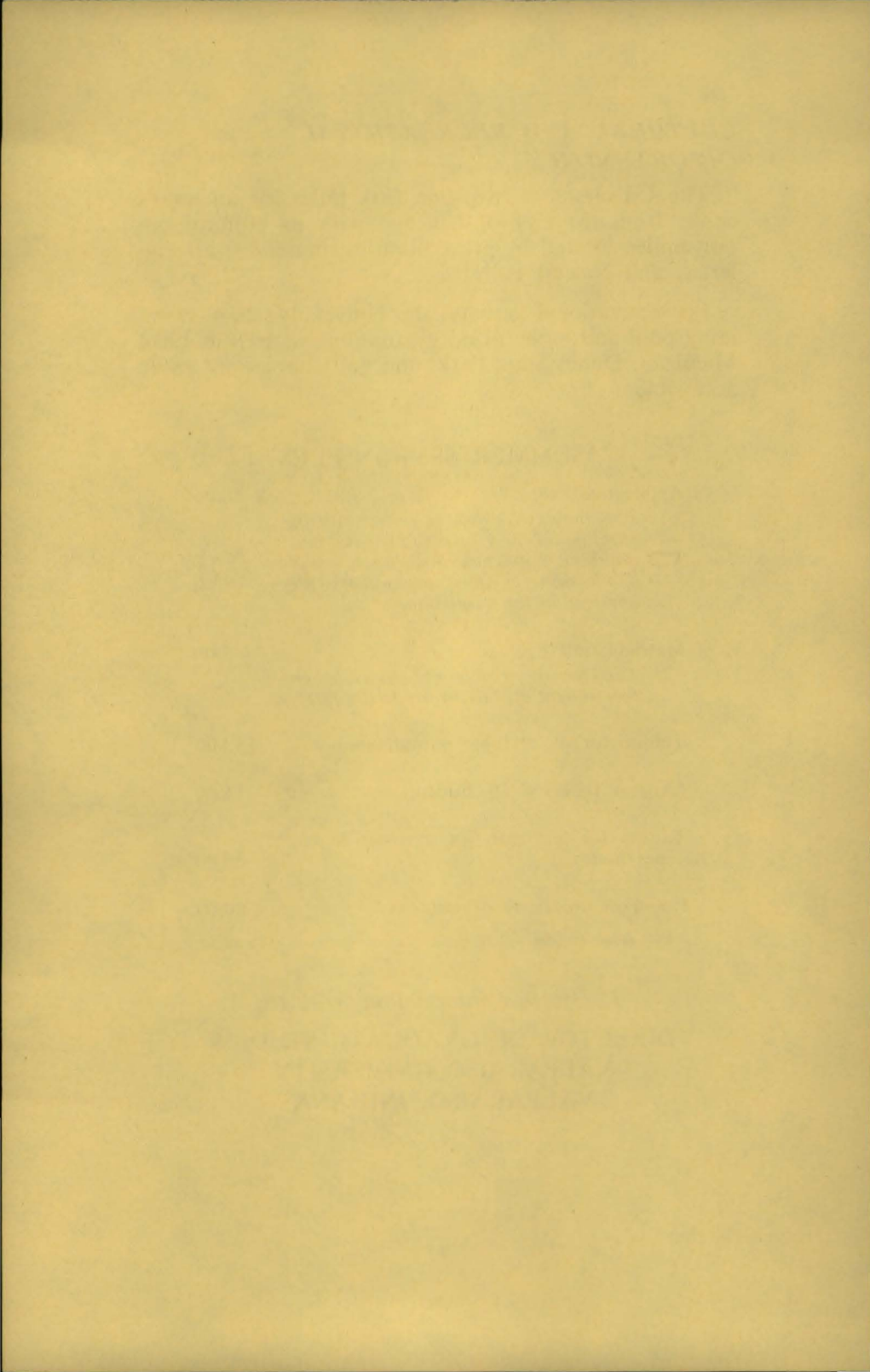
Tuition for less than six semester hours, per hour 25.00

Room in university dormitories 60.00

* Fall semester fees will be similar but not necessarily identical.

For further information write to

DIRECTOR OF GRADUATE STUDIES
VALPARAISO UNIVERSITY
VALPARAISO, INDIANA



COURSES FOR
GRADUATE CREDIT

ART

Graduate-Undergraduate Course

*205. MODERN ART

A study of the plastic and pictorial expressions of Europe and America from the 18th century to the present, with particular emphasis on the 20th century development. 2 sem. hrs.

BIOLOGY

Graduate Courses

305. EVOLUTION

A critical study of the theory of organic evolution, including evidences of evolution, course of evolution, and modern ideas on the mechanisms of evolution. Prerequisite: Genetics, or consent of the instructor. 3 + 0, 3 sem. hrs.

310. ADVANCED PHYSIOLOGY

An intensive study of the conversion of energy and matter in the living cell. Prerequisites: General Physiology and Organic Chemistry, or consent of the instructor. 3 + 4, 4 sem hrs.

315. DEVELOPMENTAL BIOLOGY

The historical background, modern techniques, and descriptive and analytical account of growth and development. Prerequisite: General Biology, or consent of the instructor. 2 + 3, 3 sem. hrs.

320. ADVANCED MICROBIOLOGY

Lecture, laboratory, and discussion sessions designed to develop an understanding of molecular biology through study of the pertinent facts and methodology in microbiology, genetics, immunology, and biochemistry. Prerequisites: Microbiology or Bacteriology, Organic Chemistry, Genetics, or consent of the instructor. 3 + 1, 4 sem. hrs.

* Courses to be offered during 1963 summer session.

Graduate-Undergraduate Courses

205. ECOLOGY

The taxonomy, ecology, and natural history of local animals and plants. A study of animals and plants in terms of their biotic, physical, and physiographic environment. Prerequisite: Systematic Botany or Ornithology. 2 + 4, 4 sem. hrs.

*210. MICROBIOLOGY

A course in general microbiology, embodying a study of the general biological principles relating to bacteria and associated organisms. Prerequisite: Organic Chemistry, or Problems in Home Economics, or consent of the instructor. 2 + 4, 4 sem. hrs.

BUSINESS AND ECONOMICS

Graduate-Undergraduate Courses

*205. ECONOMIC HISTORY OF THE UNITED STATES

A general survey of the leading facts pertaining to the discovery and colonization of America; the economic background of the Revolution; the formation of the Federal Government; the development of agriculture, industry, and commerce; the economic background of the Civil War; population, public lands, public finance, tariff, railroads, banking, labor organizations, the rise of Big Business, the World Wars, and economic reconstruction. Prerequisites: junior standing and/or consent of the instructor. 3 sem. hrs.

210. HISTORY OF ECONOMIC THOUGHT

A survey of economic and related thought in its historical development from the Mercantilists to the present day. Prerequisite: Principles of Economics and/or junior standing. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

chemistry

Graduate-Undergraduate Courses

205. BIOCHEMISTRY

The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism; brief consideration of enzymes and vitamins. Prerequisites: Quantitative and Qualitative Analysis and Organic Chemistry or the consent of the chairman of the department. 3 + 3, 4 sem. hrs.

210. ADVANCED INORGANIC CHEMISTRY

A systematic study of the elements and their compounds from the standpoint of the periodic law. Special theoretical topics in inorganic chemistry are discussed. Prerequisite: three years of chemistry. 3 + 0, 3 sem. hrs.

education

Graduate Courses

305. PHILOSOPHICAL FOUNDATIONS OF EDUCATION

A course in educational thought designed to explore systems of thought with emphasis upon educational philosophic patterns, their influence upon the implications for practice and theory in education. 3 sem. hrs.

*310. ADVANCED EDUCATIONAL PSYCHOLOGY

Basic study of psychological concepts and phenomena as related to the teaching-learning situation. Emphasis on the interpretation and analysis of psychological research concerning human behavior and development. Designed particularly for experienced teachers. Prerequisites: 15 hours in education, or consent of the instructor. 3 sem. hrs.

*315. RESEARCH IN SECONDARY EDUCATION

A review of basic and recent research on problems in secondary education, with attention to implications of research for classroom and administrative practice and theory. Both problems specific to the teaching of the various secondary-school subjects and problems of a more general nature are considered. Prerequisites: 15 semester hours in education, or consent of the instructor. 2 sem. hrs.

* Courses to be offered during 1963 summer session.

320. HISTORICAL FOUNDATION OF EDUCATION

The history of American education in its cultural framework. 2 sem. hrs.

*325. RESEARCH IN ELEMENTARY EDUCATION

Recognition of the role of research in elementary education. A review of basic research and a study of current research in the various curricular areas and its application to principles of learning, instructional process, instructional materials, and curricular organization. Prerequisites: 15 hours in education, or consent of the instructor. 3 sem. hrs.

330. SEMINAR IN EDUCATIONAL RESEARCH

Analysis of procedure and methods of research in education. Emphasis on student-initiated investigation into a selected educational field. Prerequisite: consent of the instructor. 2 sem. hrs.

Graduate-Undergraduate Courses

205. EDUCATIONAL MEASUREMENT

A course dealing with the history and theory of measurement, statistical analysis and interpretation of measurement data, and testing in relation to pupil achievement and guidance. 3 sem. hrs.

210. CURRICULUM DEVELOPMENT

A study of the composition of today's curriculum from elementary through secondary, the factors which affect its development, the principles governing curriculum organization, and current curricular patterns. 3 sem. hrs.

*215. THE JUNIOR HIGH SCHOOL

The role of the junior high school will be explored. Particular attention will be given to a critical analysis of current practice in the nature, purpose, organization, administration, and supervision of the junior high school. Prerequisites: Principles of Elementary Education, or Principles of Secondary Education, or the equivalent. 2 sem. hrs.

220. IMPROVEMENT OF READING INSTRUCTION

A course designed to review basic and current accepted practices in teaching reading. Problems concerned with the teaching of reading at the junior-high and high-school level will be emphasized. Techniques for teaching remedial reading and for guiding the reading of gifted children will be included. Prerequisites: Principles of Elementary Education or Principles of Secondary Education, or the equivalent. 2 sem. hrs.

* Courses to be offered during 1963 summer session.

english

Graduate Courses

*305. ANALYSIS AND CRITICISM

A course designed to teach the methods of analysis of intellectual works (literary criticism, philosophy, satire, biography, history, argument, and rhetoric) and the methods of criticism of imaginative works (plays, fiction, and poems) which will be required in other graduate-level courses. Works of every major genre will be analyzed and criticized in class according to principles accepted in the various schools of criticism. 2 sem. hrs.

310. WORDSWORTH AND COLERIDGE

A study of the major works of Wordsworth and Coleridge with special emphasis upon their theories and practices and upon the heritage of their critical theory. 3 sem. hrs.

315. SHAKESPEAREAN TRAGEDY

An intensive study of the five great tragedies of Shakespeare: *Hamlet*, *Othello*, *King Lear*, *MacBeth*, and *Antony and Cleopatra*. Prerequisite: a course in Shakespeare. 3 sem. hrs.

*320. MELVILLE, WHITMAN, AND TWAIN

As a projection in breadth and depth beyond the survey courses in American literature, intensive textual study of these authors will not only examine carefully the new directions in especially mid-nineteenth-century America, but also analyze important literary contributions to our cultural development. Prerequisite: a course in American literature, or consent of the instructor. 3 sem. hrs.

*325. THE WESTERN TRADITION I

A study of some of the important aspects of the heritage that has come down to us from the ancient Greek, Roman, and Judeo-Christian cultures. This course will be devoted, for the most part, to a close reading of important selected texts. (This course is also offered as a history course by the Department of History.) 2 sem. hrs.

* Courses to be offered during 1963 summer session.

326. THE WESTERN TRADITION II

A study of some of the more important aspects of the heritage that has come down to us from the Middle Ages, the Renaissance, and the Reformation. This course will be devoted, for the most part, to a close reading of important selected texts. (This course is also offered as a history course by the Department of History.) 2 sem. hrs.

Graduate-Undergraduate Courses

205. EIGHTEENTH CENTURY LITERATURE

A study of literature of the Age of Pope and the Age of Johnson other than that of the drama and the novel. 3 sem. hrs.

*210. SHAKESPEARE

A careful study of about eight of the most important plays, with more rapid reading of others. 3 sem. hrs.

215. MILTON

Some of the major writings of Milton, both poetry and prose, will be studied in relation to the religious, moral, and political issues of seventeenth-century England. 3 sem. hrs.

*220. TWENTIETH CENTURY LITERATURE

Lectures and readings covering some forerunners of the modern schools and the most characteristic works of a number of important contemporary American and British authors. Drama is not included. 3 sem. hrs.

FOREIGN LANGUAGES

Graduate-Undergraduate Courses

205. CONTEMPORARY FRENCH LITERATURE

A rapid reading course with supplementary classroom lectures in French literature of the late nineteenth and early twentieth century including such authors as Renan, Taine, Bourget, Loti, France, Rolland, Proust, Bergson. Prerequisite: Survey of French Literature or equivalent. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

205. TWENTIETH-CENTURY GERMAN LITERATURE
Prerequisite: German Classics or equivalent. 3 sem. hrs.
205. SPANISH DRAMA OF THE GOLDEN AGE
A study of the Spanish drama in the Golden Age with rapid reading of representative dramatists. Prerequisite: Spanish Composition and Conversation or equivalent. 3 sem. hrs.

GEOGRAPHY AND GEOLOGY

Graduate Course

305. GEOGRAPHIC THOUGHT
A conceptual approach to the content and contributions of geography in general education and in world society. Geographic facts and ideas are developed under the following categories: nature and scope of geographic thought; comparative Western and non-Western cultures, differentiated in space and time; the geographic facts and ways of life; procedures and methods of identifying geographic investigation of human phenomenology; the Christian ethic of earth stewardship; geography as planning aforesight; teacher preparation in the earth sciences, including application of geographic understanding of world problems in specifically assigned projects. Prerequisite: a course in geography, or consent of the instructor. 3 sem. hrs.

Graduate-Undergraduate Courses

- *205. HISTORICAL GEOGRAPHY OF THE UNITED STATES
A regional treatment of the exploration, colonization, territorial expansion, migration, transportation, settlement, and economic development of our country, integrated in relation to the physical framework of the environment in which and with which American regional patterns of culture have come to be established. The course is primarily designed for students majoring in one or another of the social sciences. Prerequisites: 12 credit hours in geography and geology, or 6 hours in geography and 6 hours in history, government, economics, or sociology. 2 sem. hrs.

* Courses to be offered during 1963 summer session.

*210. THE GEOGRAPHY OF WORLD AFFAIRS

A workshop course to develop the technique of interpreting current world events in the geographic framework in which such events occur. From newspapers and periodicals currently received by the department, students clip articles for critical review and rewrite them in the form of what is known as "chorograms." Prerequisites: 12 credit hours in geography and geology, or 6 hours in geography and 6 hours in history, government, economics, or sociology. 2 sem. hrs.

GOVERNMENT

Graduate Course

305. THE LEGISLATIVE PROCESS

A detailed study of the legislative machinery set up in the Constitution of the United States for determining and declaring the will of the people as the machinery functions within the political party system. Prerequisite: The Government of the United States, or consent of the instructor. 2 sem. hrs.

Graduate-Undergraduate Courses

*205. AMERICAN POLITICAL PARTIES

An intensive study of the origin, history, composition, policies, functions, and activities of political parties in the United States, including the evolution and operation of the party system. Prerequisite: The Government of the United States. 3 sem. hrs.

210. RECENT POLITICAL THOUGHT

A detailed study of political ideas in the West from 1848 to the present day. Prerequisites: Political Thought I and Political Thought II. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

history

Graduate Courses

*305. THE INTERPRETATION OF HISTORY

The role of interpretation in the study of history with emphasis on major trends and types of historical thought in western culture. 3 sem. hrs.

310. POST-WAR AMERICA, 1865-1900

An analysis of selected problems in the development of the United States from the end of the Civil War to the turn of the twentieth century. Attention will be centered upon the Negro in the new South, the urban-industrial transformation of the North, agrarian protest and revolt, and the disappearance of the last Western frontier. 3 sem. hrs.

315. THE UNITED STATES FROM 1815-1860

A history of the United States from 1815-1860. A study of the major political, social, and economic problems during the ante-bellum period. Prerequisite: a course in United States history, or consent of the instructor. 3 sem. hrs.

320. STUDIES IN STUART ENGLAND

Through readings, discussions, and reports, this course will concentrate on the religious, political, economic, and social problems which led a country with a long tradition of constitutional development down the thorny road of civil war and regicide, into unknown paths of political experiment, to an uneasy Restoration, and, a generation later, to a glorious Revolution which finally resolved the basic problem of sovereignty. Prerequisite: a course in English history, or consent of the instructor. 2 sem. hrs.

*325. THE WESTERN TRADITION I

A study of some of the important aspects of the heritage that has come down to us from the ancient Greek, Roman, and Judeo-Christian cultures. This course will be devoted, for the most part, to a close reading of important selected texts. (This course is also offered as a course in world literature by the Department of English.) 2 sem. hrs.

* Courses to be offered during 1963 summer session.

326. THE WESTERN TRADITION II

A study of some of the more important aspects of the heritage that has come down to us from the Middle Ages, the Renaissance, and the Reformation. This course will be devoted, for the most part, to a close reading of important texts. (This course is also offered as a course in world literature by the Department of English.) 2 *sem. hrs.*

*330. THE EVE OF THE REFORMATION

A study of the background of the Protestant Reformation. Attention will be focused on the economic, social, political, and intellectual changes which gave rise to the religious, theological, and ecclesiastic reform movements of the sixteenth century. 3 *sem. hrs.*

Graduate-Undergraduate Courses

205-206. TWENTIETH CENTURY AMERICA

A study of the United States from 1900 to 1932 and from 1932 to the present. Prerequisites: The United States to 1865 and The United States since 1865. 3 *sem. hrs.*

*215. DIPLOMATIC HISTORY OF THE UNITED STATES

A survey of the foreign relations of the United States from the American Revolution to the present. Prerequisites: The United States to 1865 and The United States since 1865. 3 *sem. hrs.*

220. HISTORY OF AMERICAN THOUGHT

An introduction to the history of American thought through a study of significant thinkers and movements. 3 *sem. hrs.*

225. NINETEENTH CENTURY EUROPE

A study of the culture and domestic and international politics of Europe from the close of the Napoleonic Wars to the outbreak of war in 1914. Prerequisites: Western Civilization I and Western Civilization II, or consent of the instructor. 3 *sem. hrs.*

* Courses to be offered during 1963 summer session.

mathematics

Graduate Courses

305. INTRODUCTION TO DESIGN OF EXPERIMENTS

A description of the place of experimental design in the field of statistics and of the mathematical basis for regression, analysis of covariance, and various related designs. Prerequisite: a course in mathematical statistics. *2 sem. hrs.*

310. DEVELOPMENT OF MATHEMATICAL FOUNDATIONS

A review of the history of the axiomatic method and criteria for the axioms of a system. The nature of structure in mathematics as exemplified in various algebraic and geometric systems. Sets and the foundations of mathematics. An examination of the place of mathematics in the culture of different periods. *3 sem. hrs.*

*315. TOPICS IN MODERN ALGEBRA

A survey of the most simple algebraic structures including groups, rings, and integral domains. A more extensive treatment of Boolean algebra and the theory of matrices. Prerequisite: a course in modern algebra. *3 sem. hrs.*

320. FUNCTIONS OF REAL VARIABLES

An exposition of the more fundamental and generally useful parts of the theory of functions of real variables. Provides the set and measure-theoretic basis for the extension of elementary concepts of the calculus to more advanced topics including the Lebesgue Integral. Prerequisites: Elements of Modern Analysis or Applied Mathematics, or the equivalent. *3 sem. hrs.*

Graduate-Undergraduate Courses

*205. ELEMENTS OF STATISTICS

Elements of the theory of probability and an introduction to statistical analysis. The emphasis in this course is upon simple mathematical models appropriate for the description and analysis of experimental data and for making inferences from such data. Prerequisite: College Mathematics II or Analytic Geometry and Calculus. *3 sem. hrs.*

* Courses to be offered during 1963 summer session.

210. ELEMENTS OF MODERN ALGEBRA

This course provides an introduction to modern abstract algebra. Particular attention is given to the theory of matrices and matrix transformations, the theory of vector spaces, and to such topics from abstract algebra as groups, fields, and rings. Prerequisite: College Mathematics II or the equivalent. 3 sem. hrs.

MUSIC

Graduate Course

305. THE SYMPHONY

This course will trace the history of the symphony from its beginnings to the modern period. While this course is not designed specifically for the professional major, it should also be of interest to such student. It serves this dual function insofar as it investigates the history of a *specific* musical form and, through this, is related to more general historical, stylistic, and aesthetic concerns. 2 sem. hrs.

Graduate-Undergraduate Course

*205. INTRODUCTION TO CHURCH MUSIC AND LITURGY

A study of the function of the organ, the choir, and the pastor in the church service. Sacred music will be studied in relation to the liturgy. Organists will give special attention to hymn playing, accompanying, modulation, and improvisation; theological and pretheological students will give special attention to the principles of chanting. Prerequisite: consent of the instructor. 1 sem. hr.

philosophy

Graduate Course

305. CONTEMPORARY PHILOSOPHY

An introduction to major problem areas and schools of thought in contemporary philosophy. The careful reading and discussion of significant philosophical texts is emphasized. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

Graduate-Undergraduate Course

*205. PHILOSOPHICAL PROBLEMS: RELIGION

An approach through the great philosophies to the problem of religion, and the implications of this problem for several of the arts or sciences. 3 sem. hrs.

physics

Graduate-Undergraduate Courses

205-206. ELECTRICITY AND MAGNETISM

205. This course emphasizes the basic laws of electricity and magnetism, the theory of dielectrics, ferromagnetism, D.C. currents, and electrical measurements. Prerequisites: Technical Physics or Principles of Physics and Differential Equations. 3 + 0, 3 sem. hrs.

206. A study of alternating current circuits and their applications. Prerequisite: Physics 205. 3 + 0, 3 sem. hrs.

210-211. INTRODUCTION TO THEORETICAL PHYSICS

210. A rigorous treatment of the dynamics of a point mass in one and three dimensions, oscillations, and central force fields. The effect of a moving reference frame and the equations of special relativity are discussed. Prerequisites: Technical Physics or Principles of Physics and Differential Equations. 3 + 0, 3 sem. hrs.

211. The dynamics of a collection of particles, collision problems, rigid bodies. The wave equation and the LaGrange formulation of the laws of dynamics. Prerequisite: Physics 210. 3 + 0, 3 sem. hrs.

psychology

Graduate Course

305. LEARNING AND MOTIVATION

An advanced study of principles, techniques and variables in learning and motivation. Prerequisite: 6 hours of psychology. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

Graduate-Undergraduate Courses

205. HISTORY OF PSYCHOLOGY

The history of man's attempt to explain behavior. The contributions of other disciplines to the formation of various schools of psychology are considered. 3 sem. hrs.

*210. METHODS OF CLINICAL PSYCHOLOGY

A study of the techniques of diagnosis and therapy employed in the clinical setting. Supervised practice in testing. Prerequisite: Psychology of the Abnormal. 3 sem. hrs.

RELIGION

Graduate-Undergraduate Courses

*205. CLASSICS OF RELIGIOUS LITERATURE

A study of Christian devotional classics, such as selections from St. Augustine, *Confessions*; Bernard of Clairvoux, *On Consideration*; Benedict, *Rule*; Thomas a'Kempis, *Imitation of Christ*; Pascal, *Thoughts*; Kierkegaard, *Purity of Heart*. 3 sem. hrs.

*210. THE BIBLICAL MESSAGE AND MODERN MAN

A consideration of religious questions raised by the modern mind and an examination of the answers offered by the Biblical message. 3 sem. hrs.

SOCIOLOGY AND SOCIAL WORK

Graduate-Undergraduate Courses

205. THE CHILD AND SOCIETY

Theories of the social and cultural development of the child; his social and cultural development through family, peer group, school, and community. Comparison of childhood in American and other cultures. The child welfare movement; agencies and services in child care. Prerequisite: Social Problems. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

*210. RACIAL AND CULTURAL MINORITIES

The social and cultural interactions and reactions when people meet people. The history and development of representative dominant-minority situations with emphasis upon the United States. Programs and methods for the reduction of prejudice and discrimination. Prerequisite: Social Problems. 3 sem. hrs.

speech and drama

Graduate-Undergraduate Course

205. THE AMERICAN THEATRE AND ITS LITERATURE

A history of the American theatre from its beginning to the present. Masterpieces of American dramatic literature as studied in relation to contemporary theatre practices. Prerequisite: Survey of English Literature. 3 sem. hrs.

* Courses to be offered during 1963 summer session.

