Education and Psychology

REQUIREMENTS: Major in Education and Psychology: 30 semester hours.

The Education and Psychology major is designed for those who plan to teach in the elementary school. Majors should include the following courses in Education and Psychology, or their equivalent: Methods of Teaching in the Elementary School, Observation and Practice Teaching (or equivalent teaching experience), Essentials of Reading, Children's Literature, History and Philosophy of Education, School Administration, Integrating Course in Education and Psychology, General Psychology, Child Psychology, and Educational Psychology. (If the minor is music, Grade School Music.)

Prospective elementary school teachers should meet the following requirements: (1) Complete a major in Education and Psychology as stated in the paragraph above. (2) Complete 45 semester hours credit in general education as follows: Social Sciences, including history, ten semester hours; Humanities, (literature, language, art, philosophy, religion), ten semester hours; Physical and Biological Sciences, ten semester hours; and electives in above areas (three semester hours in General Psychology may be included), 15 semester hours. (3) Elect at least 15 semester hours from fields closely related to the elementary school curriculum such as: music, art, physical education, health, science, practical arts, and the social studies. (These courses may overlap the general education requirements in some cases but may be counted only once in meeting requirements.)

REQUIREMENTS: Minor in Education and Psychology: 21 semester hours.

All degree candidates who plan to teach in the secondary schools should include the following courses in Education and Psychology, or their equivalent: Educational Psychology, History and Philosophy of Education, Practice Teaching or equivalent teaching experience, and nine semester hours of electives in Education and Psychology recommended by the head of the department.

Prospective secondary school teachers should meet the following requirements: (1) Complete a minor in Education and Psychology as stated in the paragraph above. (2) Complete 45 semester hours in general education as follows: Social Sciences, including history, ten semester hours; Humanities (literature, language, art, philosophy, religion), ten semester hours; Physical and Biological Sciences, ten semester hours; and electives in above areas (three semester hours in General Psychology may be included), 15 semester hours. (3) Complete a major of not to exceed 40 semester hours

in a subject commonly taught in secondary schools. (4) Complete a minor of at least 15 semester hours in a subject commonly taught in secondary schools.

Education

104. PRINCIPLES OF GEOGRAPHY. (See description under Division of Social Sciences.)


112. CHILDREN'S LITERATURE. (See description under English.)

Second semester. Two hours. Required for 60-hour certificate.

202. METHODS OF TEACHING IN THE ELEMENTARY SCHOOL. Designed to help the prospective teacher to formulate objectives, evaluate devices and techniques, and analyze outcomes in elementary school teaching.


203. HYGIENE AND FIRST AID. (See description under Physical Education.)

First semester. Three hours. Required for 60-hour certificate.

205. ESSENTIALS OF READING. A study of reading as a functional skill, problems and materials related to the various levels of reading achievement, and specific techniques for the teaching of reading in the elementary grades.

First semester. Three hours. Required for the 60-hour certificate.

206. PLAYGROUND SUPERVISION. (See description under Physical Education.)


207. ELEMENTARY SCHOOL ART. Required for 60-hour certificate. (See description under Art.)

Summer session. Three hours.

211-212. GRADE SCHOOL MUSIC. (See description under Music.)

Each semester. Three hours. Required for the 60-hour certificate. Credit in either Education or Music.

220. OBSERVATION AND PARTICIPATION. Students enrolled for this course will observe and participate in rural school work.

Either semester. Two hours. Required for 60-hour certificate.
221. OBSERVATION AND PARTICIPATION. Observation in the elementary schools. Mechanics of class management, instructional materials, modern methodology, and discipline.
First semester. Two hours. Required for the 60-hour certificate.

222. OBSERVATION AND PARTICIPATION. Directed observation and supervised teaching in the elementary schools. Follows Education 220 or 221.
Second semester. Three hours. Required for the 60-hour certificate.

230. VOCATIONS. The purpose of this course is to assist the student to find the right place where he may serve society and use his talents to the best advantage for himself and society. The students will be introduced to sources of information, and will be given an opportunity to study, according to a definite plan, certain occupations which he may choose. During the course the student will be given aptitude tests which will assist him with an understanding of his occupational potentialities, and thus enable him to make a more intelligent choice of vocation.
Each semester. One hour. Required of all sophomores excepting that pre-engineering students may substitute Engineering Lectures.

302. PSYCHOLOGY OF READING. A study of the psychological factors involved in the reading process, the development of reading skills, and the diagnosis and treatment of reading difficulties.
Second semester. Three hours.

304. SCHOOL ADMINISTRATION. A study of the nature and function of the schools in a democratic society; school laws and practices; and some of the problems pertaining to school equipment, finance, and personnel.
Second semester. Three hours.

305. METHODS OF TEACHING IN THE SECONDARY SCHOOL. Designed to help the prospective teacher to formulate objectives, evaluate devices and techniques, and analyze means of measuring outcomes in secondary school teaching.
First semester. Three hours.

308. GUIDANCE IN THE SCHOOLS. Designed to study the nature and function of guidance, special techniques, devices, and practices in the field.
Second semester. Three hours.

309. HISTORY AND PHILOSOPHY OF EDUCATION. Investigation of educational theories and problems in the light of their historic background and their philosophical implications.
First semester. Three hours. Required of all who are majoring in Education and Psychology.

312. PRINCIPLES OF CHARACTER EDUCATION. Study of the problems of character in modern society with consideration of contemporary proposals for the development of character, particularly within the school curriculum.
Second semester. Three hours.

313-314. HIGH SCHOOL MUSIC. (See description under Music.)
Each semester. Two hours. Credit in either Education or Music.

400. SENIOR COUNSELING. Senior students will be given special instruction in how to locate information relative to job vacancies, how to apply for positions, how to write letters of application, how to participate in personal interviews, and how to make good after initial employment begins.

410. SPECIAL PROBLEMS COURSE. Open to Education majors in their senior year. To give qualified students an opportunity to undertake research problems in special fields of their choice.
Each semester. One to three hours.

420. INTEGRATING COURSE IN EDUCATION AND PSYCHOLOGY. Review in education and psychology as a preparation for comprehensive examinations. Required of all seniors who are majoring in education and psychology.
Second semester. Two hours.

440. PRACTICE TEACHING. A supervised unit of observation and participation in the classroom integrated with a study of problems pertinent to the classroom situation. Open to seniors having completed nine hours of work in Education and Psychology who have maintained an average of C in college work and an average of C plus (1.2 grade points) in their major field.
Each semester. Three or four hours.

Psychology

REQUIREMENTS: Major: 24-30 hours. Majors should include the following courses in Psychology and related fields: General Psychology, Mental Hygiene, Child or Adolescent Psychology, Educational Psychology, Industrial Psychology, Social Psychology,
and Psychology Seminar. The following courses from the department of Biology are recommended for majors in Psychology: Biology 100, Physiology 201, and Genetics 401. Personnel Management 206 is recommended for psychology majors who plan to enter personnel work in government or industry.

200. **GENERAL PSYCHOLOGY.** An introductory course to the general field of psychology, stressing the nature and function of personality. Designed to help analyze personal limitations and proficiencies and to prepare students for the General Examination. General Psychology is a prerequisite for all courses in the department of Psychology. Not open to freshmen except with the consent of the head of the department.

Either semester. Three hours.

202. **MENTAL HYGIENE.** Survey of the factors accounting for individual differences and to apply the principles of mental health to personal welfare. Prerequisite or co-requisite: General Psychology, 200.

Second semester. Three hours.

204. **CHILD PSYCHOLOGY.** The major aspects of the growth and development of the child. Analysis of stimulating situations and factors leading to personality development in children.

Second semester. Three hours. Prerequisite or co-requisite: General Psychology, 200.

301. **EDUCATIONAL PSYCHOLOGY.** The learning process and such related factors as maturation, intelligence, motivation, and individual differences.

First semester. Three hours. Required for the degree certificate. Prerequisite or co-requisite: General Psychology, 200.

307. **SOCIAL PSYCHOLOGY.** Personality in relation to social conditions of development. A study of various forms of human interaction, from the point of view of individual behavior as determined by social influences. Particular attention is given to the effects of group membership.

First semester. Three hours.

401. **adolescent psychology.** A study of the outstanding characteristics of the adolescent boy and girl. Particular emphasis placed on educational, social, emotional, and moral problems arising at this period, and suggestions for dealing with these problems.

First semester. Three hours. Prerequisite or co-requisite: General Psychology, 200.


Second semester. Three hours.

410. **Special Problems Course.** Open to psychology majors in their senior year. The purpose of this course is to give qualified students an opportunity to undertake research problems in special fields of their choice.

Each semester. One to three hours.

420. **Integrating Course in Psychology.** Review course in psychology as a preparation for comprehensive examinations. Required of all seniors who are majoring in psychology.

Second semester. Two hours.

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**Division of Natural Sciences and Mathematics**

The objectives of this division are: To impart a knowledge of the biological and physical worlds and of the scientific method. To train the student in the skillful and precise use of the methods of science, the application of knowledge, and the use of laboratory equipment. To give the student an appreciation of the achievements of science, the contributions of great scientists, and the relationship of natural science to other fields of endeavor. To help the student vocationally if his choice of life work lies within any of the fields of sciences offered in the college and to give him the necessary pre-professional training. To seek to relate scientific intelligence to Christian values and ideals.

**General Education Examination.** The General Education examination in this division tests the student's knowledge of the basic concepts common to all of the sciences. It also tests his knowledge, on an elementary level, of biology, chemistry, and physics. The student may prepare for this examination by taking Biology 100, Chemistry 100, and Physics 100.
Biology and Geology

A biology major may be taken in either the B.A. or B.Sc. program. In both cases the following courses are required: Biology 100, 203, 204, 304, (or their equivalent) and 420. Courses required on the minor are: Biology 100, 304, and 405.

REQUIREMENTS: Major requirements for the B.A. degree:
A minimum of 24 hours in biology and 12 hours in the minor.

Major requirements for the B.Sc. degree: A minimum of 30 hours in biology and 32 hours in related sciences.

For students majoring or minoring in biology, there are at least three sequences offered from which courses may be selected.

1. General culture and teachers course: 100, 203, 204, 205, 206, 303, 304, 401, 402, 405, 420.
2. Course looking toward medicine and related fields: 100, 201, 203, 204, 302, 303, 304, 305, 308, 406, 420.
3. Agriculture, forestry, conservation and related fields: 100, 203, 204, 205, 206, 301, 302, 303, 304, 305, 320, 401, 420.

Students who expect to enter graduate school after graduation, should fulfill the requirements for the B.Sc. degree and obtain a reading knowledge of French and German.

100. GENERAL BIOLOGY. A survey of plant and animal kingdoms. Principles of plant and animal biology are considered. This course is a prerequisite to all courses in the department, and is one of the basic courses of the general education requirement.

Either semester. Four hours. Laboratory and lecture as arranged.

201. HUMAN PHYSIOLOGY. A course in the physiology and anatomy of the human body, including circulation, respiration, digestion, hormones, nutrition, and reproduction.

First semester. Three hours. Prerequisite: Biology 100.

203. GENERAL BOTANY. The plant as a unit. The morphology, anatomy, physiology, and ecology of monocotyledons and dicotyledons.

First semester. Four hours. Two lectures and two laboratory periods.

204. GENERAL ZOOLOGY. Development, behavior, and relationships of a series of representative types of animals, both invertebrate and vertebrate. Scientific observation and interpretation stressed.

Second semester. Four hours. Laboratory and lectures as arranged. Prerequisite: Biology 100.

205. PHYSICAL GEOLOGY. A study of rocks and minerals, surface features, soil formation, and erosion. Field trips.

First semester. Three hours. Prerequisite: Biology 100.

206. CONSERVATION. Conservation of our natural resources, including soil formation and erosion, terracing, strip farming, liming, crop rotation, effect of fire, prevention of fires, and government aid. Management of parks, forests, grazing lands, and wild game are also considered.

Second semester. Three hours. Prerequisite: General Biology 100.

301. PLANT PATHOLOGY. Identification, morphology, life cycle and control of some representative types of plant diseases.

First semester. Four hours. Two lectures and two laboratory periods. Prerequisite: Biology 100, General Botany 203.

302. BACTERIOLOGY. Typical forms of nonpathogenic and pathogenic bacteria.

Second semester. Three hours. One lecture and two laboratory periods. Prerequisite: Biology 100 and consent of the instructor.

303. ENTOMOLOGY. Anatomy, classification, life cycle, and control of certain insects. Special emphasis is placed upon useful and destructive species. Field trips.

First semester. Three hours. Lectures and laboratories as arranged. Prerequisites: Biology 100, General Zoology 204.

304. SYSTEMATIC BOTANY. Identification and classification of plants growing in this area.

Second semester. Three hours. One lecture and two laboratory periods. Prerequisite: Biology 100.

305. ANIMAL PARASITOLOGY. The taxonomy, morphology, and life cycle of certain parasitic protozoa, flatworms, round worms, and insects.

First semester. Three hours. Two lectures and one laboratory period. Prerequisites: Biology 100 (204 is desirable). (1950-51)

308. COMPARATIVE ANATOMY. Comparative anatomy of vertebrates and closely related animals, with emphasis on the mammal.

Second semester. Four hours. Two lectures and two laboratory periods. Prerequisite: Biology 204 (1950-51).

320. PLANT AND ANIMAL NUTRITION. The food requirements of plants and domestic animals. The effect of mineral deficiencies upon the growth and composition of plants. Human nutrition as related to plant and animal nutrition. A course de-
signed for students interested in agriculture.
   Either semester. Three hours. Prerequisite: Biology 100.

401. GENETICS AND Eugenics. Fundamental principles
   of inheritance and the application of these principles to plants,
   animals, and social problems.
   First semester. Two or three hours. Prerequisite: Biology 100.

402. HISTORICAL GEOLOGY. History of the earth includ-
   ing plants and animals of the past. Field trips.
   Second semester. Three hours. Lecture and laboratory as ar-
   ranged. Prerequisite: Biology 205.

405. METHODS IN BIOLOGY. Collecting and preserving
   biological material, technique in preparing microscope slides, and
   a survey of literature available for use in the secondary school.
   First semester. Four hours. Lectures and laboratory as ar-
   ranged. Open to majors and minors in the senior year.

406. EMBRYOLOGY. Embryology of animals, chiefly verte-
   brates. Maturation of germ cells, fertilization, segmentation, origin
   and development of organs. A detailed study is made of the chick
   and the foetal pig.
   Second semester. Four hours. Two lectures and two labora-
   tory periods. Prerequisite: Biology 305.

410. SPECIAL PROBLEMS. Open to biology majors in the
   senior year. The purpose of this course is to give qualified students
   an opportunity to undertake a research problem.
   Either semester. Two hours.

420. INTEGRATING COURSE IN BIOLOGY. The purpose
   of this course is to integrate the fields of biological science. The
   seminar methods are employed and topics are assigned for discussion.
   Either semester. Three hours. Open to seniors.

Chemistry

REQUIREMENTS: For a B.A. degree in Chemistry, twenty-
four semester hours of chemistry, including Chemistry 420 are re-
quired. For a B.Sc. degree, thirty semester hours of chemistry, and
Chemistry 420, General Physics, and Calculus are required. A
reading knowledge of German or French is recommended.

Major students in chemistry should enroll for Mathematics 103,
120, and 106 in the freshman year and Mathematics 201-2 in the
sophomore year. General Physics and German should be taken
during the sophomore and junior years.

100. INTRODUCTION TO CHEMISTRY. An introduction
   to the field of chemistry and consists of lectures, recitations and
   laboratory demonstrations. Science majors and students desiring
   more than one semester of chemistry should enroll in Chemistry 101.
   Either semester. Three hours.

101. GENERAL CHEMISTRY. A general study of chemical
   principles and their application. Material studied is largely from
   inorganic chemistry, although some material from organic and
   analytical chemistry is studied. Lectures, recitations, demonstrations,
   and work in the laboratory.
   This course and Chemistry 102 are designed to furnish the basic
   knowledge of chemistry required by the professional courses such
   as engineering, medicine and dentistry. Students who desire to take
   advanced courses beyond Chemistry 102 are strongly urged to enroll
   for Mathematics 103, 120, and 106.
   First semester. Four hours. Two lectures and two three-hour
   laboratory periods.

102. GENERAL CHEMISTRY AND QUALITATIVE AN-
   ALYSIS. A continuation of Chemistry 101 with additional em-
   phasis on analytical chemistry. Laboratory work consists of a study
   of the qualitative separation, identification, and reactions of both
   cations and anions.
   Second semester. Four hours. Two lectures and two three-
   hour laboratory periods. Prerequisite: Chemistry 101.

201. ADVANCED INOR. ORGANIC QUALITATIVE ANALYSIS.
   The study of advanced inorganic chemistry and the theory and prac-
   tice of qualitative analysis. The laboratory work consists of the
   analysis of the common cations and anions, using the semimicro
   method.
   First semester. Five hours. Three lectures and two laboratory
   periods. During the last half of the semester there are two lecture
   and three laboratory periods. Prerequisites: Chemistry 101-102.

202. QUANTITATIVE ANALYSIS. Theory and practice of
   volumetric and gravimetric quantitative analysis and some of the
   more important physicochemical methods of analysis such as colori-
   metry and potentiometry.
   Second semester. Five hours. Three lectures and two labora-
   tory periods. During the last half of the semester there are two lectures
   and three laboratory periods. Prerequisite: Chemistry 101-102 and Mathematics 103.
Physics and Mathematics

Physics

REQUIREMENTS: For the B.A. degree in physics, twenty-four semester hours in physics, including twelve hours from courses numbered 300 or above are required. Mathematics 201-202 is required, and further work in mathematics and in chemistry is recommended, especially in Mathematics 401.

For the B.Sc. degree, thirty semester hours in the department. Mathematics 201-202, and 401, and Chemistry 101-102 are required. A reading knowledge of French or German is recommended.

All students majoring in physics should take Mathematics 103 or 101, 120 and 106 in the freshman year, and Mathematics 201-202 in the sophomore year. Students expecting to receive the B.Sc. degree with a major in physics should also take Chemistry 101-102 in the freshman year.

100. INTRODUCTION TO PHYSICS. A brief course in the elements of physics with emphasis on the practical application to everyday living. Instruction is through discussion and demonstration with active student participation in the demonstration. Liberal use is made of audio-visual aids.

Each semester. Three hours.

105-106. FLYING. Prepares the student for the Private Pilot's license. The student may enroll for the first half of the course, 105, or for the complete course, 105-106. The first half, 105, consists of approximately 20 hours of flight instruction. The second half, 106, gives the student enough additional instruction to prepare him for the Private Pilot flight test. This will consist of a minimum of 15 hours of instruction. The Private Pilot flight test will be arranged. A student will be asked to drop 105 during the first 12 hours of instruction, or 106 during the first 5 hours of instruction if, in the opinion of the flight instructor, he will not be able to qualify for the Private Pilot's license. The flight instruction is given at Ottawa Municipal Airport by the Snyder-Robertson Flying Service, with which Ottawa University has a contract. The course is CAA-approved.

Both courses are given each semester. Two hours. One hour credit for each half of the course. Co-requisite: Physics 110.

110. GENERAL AERONAUTICS. A brief course in Civil Air Regulations, navigation, meteorology and general servicing of aircraft, designed to give the minimum knowledge of these subjects...
needed for effective and safe private flying. Fifty hours of class room instruction.

Either semester, on demand. Three hours.

130. PHYSICS RADIO WORKSHOP. Supervised individual work in the construction, repair, and operation of radio equipment.

Either semester. One to three hours. Prerequisite: permission of the head of the department.

201-202. GENERAL PHYSICS. Fundamentals of mechanics, heat, electricity and magnetism, sound, and light, designed to give some appreciation of the scientific method as well as to give the basic training for technical students.

Each semester. Four or five hours. Three lectures and one laboratory period, with an optional fifth hour consisting of additional problem work. Prerequisite: Mathematics 120.

204. STATICS. A problem course in statics, with emphasis on structures and other engineering problems.

Second semester. Three hours. Prerequisite: Physics 201.

301-302. ELECTROPHYSICS. Advanced study of electricity and magnetism, electronics, ultra-high frequencies, high-voltage generators, and the particles of nuclear physics.

Each semester. Four hours. Three lectures and one laboratory period. Prerequisites: Physics 201-202 and Mathematics 201-202. (1949-1950)

403. PHYSICAL OPTICS. A study of the nature and properties of light, with some work on the design of optical instruments.

First semester. Three hours. Two lectures and one laboratory period. Prerequisite: Physics 201-202. (1950-1951)

406. MECHANICAL PHYSICS. A treatment of statics and dynamics. The course is taught chiefly through the medium of problem solution.

Second semester. Four hours. Prerequisite: Mathematics 201-202. (1949-1950)

407-408. RADIATION PHYSICS. An integrated study of wave motion and sound, electromagnetic radiation including wave and quantum properties, spectroscopy and x-ray diffraction, atomic structure, and electron diffraction.

Each semester. Four hours. Three lectures and one laboratory period. Prerequisites: Physics 201-202 and Mathematics 201-202. (1950-1951)

410. SPECIAL PROBLEMS IN PHYSICS. A study of special problems in physics, or of fields supplementary to curricular offerings, supervised through conferences. Open only to physics majors in their senior year.

First or second semester. One to three hours. Prerequisite: permission of the head of the department.

420. INTEGRATING COURSE IN PHYSICS. A comprehensive survey of the field of physics, by reading, lectures, and cooperative study.

Second semester. One or two hours.

Mathematics

REQUIREMENTS: For a B.A. degree in mathematics, twenty-four semester hours in mathematics, including twelve hours from courses numbered 300 or above are required. General Physics is recommended, and further work in physics or chemistry is desirable. A student expecting to major in mathematics must take Mathematics 103 or 101, 120, and 106 in the freshman year, and 201-202 in the sophomore year.

For the B.Sc. degree, thirty hours in mathematics and thirty-two hours in other natural sciences are required.

Students entering the elementary mathematics courses are directed into the course which best fits their background and abilities, as judged by a qualifying test in elementary mathematics, the courses taken in high school, and their general ability as indicated by their score in the qualifying examinations given all entering students.

00. PLANE GEOMETRY. The fundamentals of plane geometry, designed for those students who did not have this course in high school.

On demand. Three meetings weekly. No credit.

0. ELEMENTARY ALGEBRA. The equivalent of the first year course in high school algebra.

On demand. Five meetings weekly. No credit.

101. INTERMEDIATE AND COLLEGE ALGEBRA. A comprehensive course designed to give the student a working knowledge of algebra and also to consider the nature and significance of mathematics. Prerequisites: One unit of plane geometry and one unit of elementary algebra, or the equivalent performance on the qualifying test.

First semester, second semester on demand. Five hours.

103. COLLEGE ALGEBRA. A comprehensive course designed to give the student a working knowledge of algebra and also to consider the nature and significance of mathematics. Prerequisites: One unit of plane geometry and one and one-half units of algebra,
or the equivalent performance on the qualifying test.
First semester, second semester on demand. Three hours.

120. **PLANE TRIGONOMETRY.** A study of the properties of the trigonometric functions, and of the solution of triangles.
Either semester. Two hours. Mathematics 103 is prerequisite or co-requisite.

106. **ANALYTIC GEOMETRY.** Fundamentals of plane analytic geometry with brief treatment of solid analytic geometry.
Second semester. The complete course is given in four class periods, for four hours credit. An extra period each week is scheduled for those who want further work for five hours credit. Prerequisites: Mathematics 103 and 120.

107. **ENGINEERING DRAWING.** A basic course in the selection and use of drawing instruments, lettering, sketching, orthographic projections, and pictorial representations. Six hours of supervised work each week.
First semester. Two hours.

108. **DESCRIPTIVE GEOMETRY.** A standard course in descriptive geometry, with emphasis on training the student to visualize the relationship between a three-dimensional object and its two-dimensional drawing. One lecture period and six hours of supervised work each week.
Second semester. Three hours. Prerequisite: Mathematics 107.

112. **ENGINEERING LECTURES.** A survey of the field of engineering through lectures, discussions, trips, and aptitude testing, with the purpose of aiding the student in his selection of engineering as a profession.
Second semester. One hour.

201-202. **DIFFERENTIAL AND INTEGRAL CALCULUS.** Fundamental theory of the calculus and its applications to the physical sciences.
Each semester. Four hours. Prerequisites: Mathematics 103, 120, and 106.

203. **MACHINE DRAWING.** A continuation of Mathematics 107, including conventional representations, working drawings, dimensioning, reproduction of drawings, reading engineering drawings, and detail drawing of machine parts. Six hours of supervised work each week.
First semester. Two hours.

206. **ELEMENTARY SURVEYING.** The use and care of engineering surveying instruments, and plane surveying practice.

One hour of lecture and six hours of supervised work each week.
Second semester. Three hours. Prerequisites: Mathematics 120 and 107.

303. **THEORY OF EQUATIONS.** An extended study of the solution of various types of algebraic equations and the properties of determinants.
First semester. Three hours. Prerequisite: Mathematics 201-202. (1950-1951)

304. **STATISTICS.** Elementary principles of statistics and their application in the study of problems pertaining to business and arising in the analysis of experimental data.
Second semester. Three hours. Prerequisite: Mathematics 103. (1950-1951)

401. **DIFFERENTIAL EQUATIONS.** A study of the methods employed in solving ordinary differential equations and their applications to geometry and physics.
First semester. Three hours. Prerequisite: Mathematics 201-202. (1949-1950)

406. **ANALYTICAL MECHANICS.** Statics and dynamics, with the greater emphasis on statics. The course is taught chiefly through the medium of problem solution.
Second semester. Four hours. Prerequisite: Mathematics 201-202. Given with the class in Mechanical Physics. (1949-1950)

410. **SPECIAL PROBLEMS IN MATHEMATICS.** Special problems or study of supplementary fields in mathematics, supervised through conferences. Open only to mathematics majors in their senior year.
First or second semester. One to three hours. Prerequisite: permission of the head of the department.

420. **INTEGRATING COURSE IN MATHEMATICS.** Readings, lectures, and cooperative study of mathematical topics in order to attain a comprehensive view of the major field.
Second semester. One or two hours.

**Division of Social Sciences**

**AIMS:** To enlarge the vision of students to understand significant human relationships in all parts of the world; to encourage persistent search for and accurate appraisal of the truth; to appreciate the limitations of science alone to improve human society;
to strive for ways and means to make social studies practical in everyday living; to practice good citizenship and enlist support for good citizenship activities.

**GENERAL EXAMINATION:** Courses designed to aid the student to prepare for the general examination:

Section A: 1. American History  
2. American National Government—International Politics

Section B: 1. Principles of Economics  
2. Principles of Sociology

Students will be expected to pass an examination on either 1 or 2 in Section A, plus either 1 or 2 in Section B. Thus, the examinations will cover the equivalent of twelve hours in the Social Sciences as the student chooses, except that he must be prepared in Section A and Section B.

**DIVISIONAL MAJOR:** Students may major in the division, with the consent of the head of the division, by taking a minimum of 32 hours in the division, 15 of which are to be junior-senior subjects. The Department of the Senior Seminar, in such cases, shall be determined by the head of the division after consultation with other department heads.

**Geography**

104. **PRINCIPLES OF GEOGRAPHY.** Geographic factors of the environment and of regionalism. Man's relationship to the environment is studied in his use of natural resources as they relate to economic, political and cultural patterns of life.

Second semester. Three hours. Required for the 60-hour elementary teacher's certificate.

**History and Political Science**

**History**

**REQUIREMENTS:** Twenty-four semester hours in the department are required for a major.

201-202. **AMERICAN HISTORY.** European background; exploration and colonization; American revolution; confederation and constitution; political-economic development; secession and civil war; big business and its control; imperialism; international relations; 20th Century civilization; modern social-economic problems; survey of American culture.

Each semester. Three hours.

203. **HISTORY OF CIVILIZATION TO 1650.** Ancient civilization; contributions of Greece and Rome; development and significance of the church; medieval life and culture; the commercial revolution; the renaissance; rise of national states.

First semester. Three hours.

204. **HISTORY OF CIVILIZATION AFTER 1650.** The Protestant revolution; French revolution; industrial revolution; unification of Italy and Germany; growth of liberalism and democracy; national rivalries; imperialism; world conflicts; new political and economic ideologies; peace movements; present day problems.

Second semester. Three hours.

301. **CONSTITUTIONAL HISTORY OF THE UNITED STATES.** A study of constitutional origins and theories; detailed review of the constitutional convention; amendments and interpretations; the role of the supreme court; political parties and the constitution; significant developments in constitutional law.

First semester. Three hours. Prerequisite: History 201-202. (1950-1951)

306. **ECONOMIC HISTORY OF THE UNITED STATES.** Colonial economic life; economic aspects of the revolution; the frontier; economic implications in American diplomacy; slavery; government and business; depressions; the role of the constitution and courts; recent economic tendencies and problems.

Second semester. Three hours. (1949-1950)

404. **LATIN AMERICAN HISTORY.** Probable origins; primitive civilization; Spanish-American culture; independence; relations with Europe; Pan-Americanism; present status and outlook.

Second semester. Three hours. (1950-1951)

**Political Science**

206. **AMERICAN NATIONAL GOVERNMENT.** Origins; basic principles; constitutional developments; structure; citizenship; political parties; nominations and elections; propaganda; problems in a democracy.

Second semester. Three hours.

207. **COMPARATIVE GOVERNMENT.** Fundamental principles underlying the governments of the major world powers; political movements and reforms; degree of success or failure of political movements and institutions; comparisons and analyses of great political ideologies.

First semester. Three hours. (1949-1950)
305. AMERICAN STATE GOVERNMENT AND ADMINISTRATION. Examination of the traditional line of demarcation between federal and state authority. The new role of the states in the development of the federal system. The problems of federalism. The course stresses the importance of local government and administration.

First semester. Three hours. (1949-1950)

402. POLITICAL PHILOSOPHY AND THEORY. Great political ideas and ideals from earliest times to modern concepts and experiments. Considerable emphasis will be placed upon American theories—rights of man, federalism, nullification, laissez-faire, regimentation.

Second semester. Two hours. (1950-1951)

403. INTERNATIONAL POLITICS. Forces and organizations striving for world unity against the background of the forces contributing toward world anarchy.

First semester. Three hours.

410. SPECIAL READINGS COURSE. Three hours credit is given in the senior year to students who, on the recommendation of the instructor, pursue independent study in a field of either history or government.

420. HISTORY AND POLITICAL SCIENCE SEMINAR. A course integrating the fields of history as a preparation for the comprehensive examinations. Schedule of classes to be arranged at convenience of students.

Second semester. Two hours.

Business Administration and Economics

REQUIREMENTS: Students who major in the field of business administration and economics must take not less than 30 hours in the department, nor more than 40 hours. The following courses are required: Economics 101, 102, and 420.

TEACHERS. All economics majors who have three semester hours in any or all three of the following departments: sociology, political science, and history, and also have the education and psychology courses as outlined on page 43 may be certified for teaching in the Social Science field. For certification to teach in the Commerce field, one must have education and psychology credits as stated above plus a total of 15 semester hours in commerce courses, including three semester hours in each course in which he desires to teach.

ENGINEERS. Since many graduates of engineering schools are ultimately drawn into managerial positions in the business world, students of engineering may find it advisable to elect some of the courses described below.

SECRETARIAL SCIENCE. To those who wish to prepare themselves for positions as secretaries, office managers, and research assistants, or for work in sales and advertising, and personnel, the courses offered in merchandising and personnel are recommended.

101-102. PRINCIPLES AND PROBLEMS OF ECONOMICS. Basic for all courses in economics. Fundamental principles and economic concepts such as interest, profit, wages, and rent receive first attention. In second semester, application of these principles is made to current economic problems; money and banking, investments, price levels, business cycles, and international trade.

Each semester. Three hours.

103. PRINCIPLES OF ACCOUNTING. Basic to all other accounting courses. Considers balance sheet, profit and loss statement, journals, adjusting and closing entries, preparation of statements from accounts, laboratory work on problems, and short practice sets in sales of proprietory shop and partnership.

First semester. Three hours.

104. PRINCIPLES OF ACCOUNTING. Application of accounting principles to the more complex form of business enterprise. Accounts peculiar to corporations, manufacturing accounts, depreciation of fixed assets, reserves. Interpretation of accounts and statements.

Second semester. Three hours. Prerequisite: Economics 103.

105. MATHEMATICS OF ACCOUNTING. Review of fundamental operations of mathematics as applied to business, stressing speed, accuracy, and proofs. Studies of payrolls, social security program, allocation applying to interest and discounts, percentage as applied to practical business problems, taxes, stocks and bonds, insurance, inventories, and depreciation.

First semester. Three hours.

205. MODERN LABOR PROBLEMS. Historical survey of the economic and social position of the wage earner. Causes of conflicting interests between labor and capital. Trade unions, their policies and structure. The industrial union with its alleged advantages; cooperation societies and employer associations.

First semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)
206. PERSONNEL MANAGEMENT. Presented from the point of view of management. Includes employment methods, maintenances of steady and satisfied labor supply, methods of wage payment, the democratization of industry, discharge and lay-off.

Second semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)

207. PRINCIPLES OF MARKETING. Both functional and commodity approaches are presented. An appraisal of market institutions and recent changes within them are evaluated.

First semester. Three hours. Prerequisites: Economics 101-102. (1950-1951)

208. AGRICULTURAL ECONOMICS. Scientific methods used on the farms, rotation of crops, fertilization of the soils, soil erosion, up-grading of the crops and up-breeding of live stock.

Second semester. Three hours. Prerequisites: Economics 101-102. (1950-1951)

251. INTERMEDIATE ACCOUNTING. An analysis of problems and financial statements, corporation accounting, actuarial science, partnership, reserves insurance, working capital, application of funds.

First semester. Three hours. Prerequisite: Economics 104.

252. ADVANCED ACCOUNTING THEORY. Preparation of statements, accounting for sources and application of funds, joint ventures, consignments, consolidated balance sheets, agency and branch, receiverships, estates and trusts, and actuarial science.

Second semester. Three hours. Prerequisite: Economics 251.

301. MONEY AND BANKING. History of money and banking from 1789 to 1913. Organization of the federal reserve system. Control of the quantity of money and consequently its relation to general price levels and to business depressions.

First semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)

302. INVESTMENT BANKING. A study of heavy investments and long term credits required by such large scale business as railroads and public utilities. Examination of investment bank service in giving financial advice on rate of interest, soundness of securities, length of loans, source of available funds.

Second semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)

306. ECONOMIC HISTORY OF THE UNITED STATES. (See description under history.)

Second semester. Three hours. Credit in Economics or History.


First semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)

309. RETAIL MERCHANDISING. Selecting a business location, internal layout, departmentalization, merchandising control, markets, store policy, training and management of personnel, and related topics.

First semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)

314. INTERNATIONAL TRADE. A study of the development, methods, and trends of international trade.

Second semester. Three hours. Prerequisites: Economics 101-102. (1949-1950)

315. ADVERTISING. An analysis of the fundamental principles of advertising, media, advertising agencies, planning an advertising campaign, research measuring results, Audit Bureau of Circulation, and the Association of National Advertising.

First semester. Three hours. Prerequisite: Economics 207. (1950-1951)

316. SALESMANSHIP. A survey of the field of selling and sales management, methods of market research, a study of distribution channels, the theory of pricing, selecting and training salesmen, organization of a sales force, compensation of salesmen, sales promotion, campaigns and selling plans, advertising in the selling program, and budgetary control.

Second semester. Three hours. Prerequisites: Economics 101 and 102. (1950-1951)

318. CREDITS AND COLLECTIONS. Types of credit, credit terms, credit department organization and operation, sources of credit information. Credit investigation, analysis and appraisal. Collection problems and legal aids.

Second semester. Three hours. Prerequisites: Economics 101 and 102.

351. COST ACCOUNTING. Specific order cost accounting, process costs, estimating costs, by-products and joint costs, book-
keeping procedure, detailed study of cost accounting forms.

First semester. Three hours. Prerequisite: Economics 252 (1950-1951)

352. AUDITING. Preliminary arrangements for an audit, general procedure of an audit, the original records, the asset accounts, the liability accounts, operating accounts, the audit report. An auditing problem is worked to illustrate the principles discussed in class.

Second semester. Three hours. Prerequisite: Economics 252.

401. BUSINESS LAW I. A study of the law of contracts, agency, employer-employee relationships, and bailments. Examination of the interrelations of law and business.

First semester. Three hours. Prerequisites: Economics 101-102. (1950-1951)

402. BUSINESS LAW II. Continues the emphasis of law as a changing factor affecting personal and business relationships. A study is made of negotiable instruments, sales partnerships, and corporations.

Second semester. Three hours. Prerequisite: Economics 401. (1950-1951)

420. ECONOMICS SEMINAR. Preparation for the comprehensive examinations. Schedule of classes to be arranged. Open only to seniors in this field.

Second semester. Two hours.

451. ACCOUNTING PROBLEMS. Advanced accounting content will be determined by needs of the students.

First semester. Three hours.

452. GOVERNMENT ACCOUNTING. Designed to prepare students for governmental positions. Emphasis upon accounting principles and practices for municipalities and other governments, capital expenditures, revenue and expenditures, funds, appropriations, and reserves.

Second semester. Three hours. Prerequisite: Economics 252.

Secretarial Science

Only advanced courses in typing and in shorthand may be counted toward the Bachelor of Arts degree. Three hours of each will be approved.

CREDIT BY EXAMINATION may be granted in shorthand, typing, and accounting to those who have taken such courses in high school, business college, or by correspondence, provided a passing grade is made in the proficiency examinations which are given each semester by the commerce department. It is thus possible for commerce teachers and others to meet specific requirements in the field of commerce.

SPECIAL STUDENTS. Recognizing the fact there are always high school graduates who do not plan to complete the required work for a bachelor's degree in college or university, business courses which are now being offered may be taken by students not interested in receiving a degree. These offerings include courses in typewriting, shorthand, office practice, salesmanship, business mathematics, accounting, and other courses which definitely prepare students for CIVIL SERVICE, STENOGRAPHIC, and SECRETARIAL positions.

103-104. PRINCIPLES OF ACCOUNTING. (See description under Economics on page 81.)

105. MATHEMATICS OF ACCOUNTING. (See description under Economics on page 81.)

110. BEGINNING TYPING. Foundations of typing power, initiating keyboard control, making typing habits permanent, improving practice, emphasizing speed, and introducing the business letter, manuscript typing and tabulating.

Either semester. Three hours. Will not apply toward a bachelor's degree.

130. BEGINNING SHORTHAND. The manual method of Gregg Shorthand, dictation and speed practice.

Either semester. Three hours. Will not apply toward a bachelor's degree.

230. ADVANCED TYPING. Minimum requirement for admission to this course is one semester of college typing, two years of high school typing, or its equivalent. Meets the needs of those who have had no shorthand and thus cannot take office practice.

Second semester. Three hours. First semester on demand.

250. ADVANCED SHORTHAND TRANSCRIPTION. Continues dictation and transcription with the specific purpose of increasing speed and accuracy in taking shorthand notes and transcribing them on the typewriter. Intensive practice is given in the use of special vocational words and phrases.

Second semester. Three hours. Prerequisite: Secretarial Science 130, or its equivalent.
251. INTERMEDIATE ACCOUNTING. (See description under Economics on page 82.)

252. ADVANCED ACCOUNTING. (See description under Economics on page 82.)

260. SECRETARIAL ACCOUNTING. An adaptation of the fundamental principles of accounting to the keeping of books and records for professional and personal service enterprises on the cash basis. Recommended for students who do not care to specialize in the field of accounting and yet must know enough accounting to keep business records of doctors, dentists, lawyers, and personal service institutions.

Second semester. Three hours. First semester on demand. Prerequisite: Principles of Accounting 103.

310. OFFICE PRACTICE. Emphasis is placed on spelling, vocabulary drills, punctuation, office ethics, letter arrangements, correct business and legal forms, tabulations, stencils and civil service examinations. Minimum requirements for admission to this course are the abilities to operate a typewriter at average speed and to take shorthand dictation at 80 words a minute.

Both semesters. Three hours.

Sociology

REQUIREMENTS: Twenty-four hours including Sociology 201-202, 310, and 420 are required for a major.

201-202. PRINCIPLES OF SOCIOLOGY. An introduction to the study of culture and society. Factors that have contributed to social change. A brief study of social customs and major social institutions. Individual and race differences, assimilation and social progress.

Each semester. Three hours.

301. SOCIAL DISORGANIZATION. The nature and causes of human maladjustments. An exploration of current social problems with a view to their solution through social legislation, social work, education and other means.

First semester. Three hours. Prerequisite: Sociology 201-202. (1950-1951)

303. MINORITY GROUPS. This course deals with race primarily as a culture group, and with race relations in a social-psychological manner. Such concepts as culture, nationality, and class are defined in order to bring out contrasts. Student attitudes are analyzed with the hope that prejudices may be minimized.

First semester. Three hours. Prerequisite: Sociology 201-202. (1949-1950)

304. THE SOCIAL INFLUENCE OF CHRISTIANITY. (See description under Religion.)

Second semester. Three hours. Prerequisite: Sociology 201-202. Credit in either Sociology or Religion.

305. RURAL SOCIOLOGY. Rural society and culture, organization, and institutions. Special attention to rural social problems, to the village, and to the non-agricultural, small community.

First semester. Three hours. Prerequisite: Sociology 201-202. (1950-1951)

306. THE COMMUNITY. A study of basic research into the nature of the community and community life. Practical techniques of community organization and leadership.

Second semester. Two hours. Prerequisite: Sociology 201-202. (1949-1950)

307. URBAN SOCIOLOGY. The geographical setting, structural characteristics, functions, personality types, and pathologies of the modern city.

First semester. Two hours. Prerequisite: Sociology 201-202. (1949-1950)

310. THE FAMILY. A study of marriage and the family in modern society with special reference to the importance of the family for personality development. The student is introduced to recent research in this field, and such problems as mate selection, divorce, eugenics, and living standards are considered. The influence of religion and the Christian family ideal are emphasized.

Either semester. Three hours.

404. CULTURAL ANTHROPOLOGY. A course that provides an understanding and appreciation of man and his society with reference to both biological and cultural aspects. It seeks to develop an appreciation of our debt to our progenitors from the standpoint of our beliefs, economics, arts, music, language, folklore, mores, inventions, and all of our culture patterns. It endeavors to understand and evaluate the present in the light of the past and to show the continuity of cultural development and accumulation.

Three hours. Prerequisites: Sociology 201-202.

406. CRIMINOLOGY. A general survey of the causes of crime and delinquency including physical and mental traits and social backgrounds. Correctional methods and their results. Courts, in-
Division of Language and Literature

The departments of English, Foreign Language, Speech and Drama, though functioning as separate units, are considered as organically one division. Each department provides basic training in the art of expression, written and oral. Through a sequence of advanced courses and directed reading, the student should acquire an increasingly mature appreciation of his cultural heritage as expressed in the varied literatures of Europe and America.

DIVISIONAL MAJOR. To encourage a wider selection of subjects, the departments concerned have provided for a divisional major with a minimum of 30 semester hours. The student should complete 18 hours above the freshman level in one department, and not less than six hours in courses above the sophomore level in either of the other departments.

DIVISIONAL GENERAL EXAMINATION. For an outline of the scope of this examination, consult page 24.

English courses 101-102 (or 103-104) and 201-202 prepare students for the General Examination.

FOREIGN LANGUAGE REQUIREMENT. Two years of one foreign language in college, or its equivalent, are required for all majors in this division. The requirement may be met by examination.

DIVISIONAL READING PROGRAM. Supervised reading of masterpieces chosen from the Divisional Reading List is required of all juniors and seniors.
ENGLISH

REQUIREMENTS: The major should be selected if possible by the end of the third semester. Twenty-four hours above the freshman level are required and should include the following: English 201-202, 303-304, one period study, one course in types of literature, one course in major authors and the Integrating Survey.

00. ENGLISH REVIEW. Primarily remedial. A review of spelling, punctuation, grammar, and syntax for students markedly deficient in any of these. Required of all students upon failure in entrance tests or upon recommendation of divisional head or counselor.

First semester. No credit.

101-102. FRESHMAN ENGLISH. Literary backgrounds and the art of writing. This course affords constant discipline in reading, group discussion, and writing. The freshman readings deal chiefly with the great literary traditions of the humanities and with the distinctive types and forms of composition. Group discussions are organized to encourage intelligent oral presentation of ideas and to correct slovenly habits of conversation.

Each semester. Three hours.

103-104. ADVANCED FRESHMAN ENGLISH. As determined by the freshman testing program, approximately one-fourth of the entering freshman class will be eligible for this course. Proficiency in the art of reading and in ordinary forms of composition will be assumed. Readings and class discussion cover the range of Courses 101-102 and in addition introduce the student to outstanding examples of literary trends of recent centuries.

Each semester. Three hours.

112. CHILDREN'S LITERATURE. (Also listed as Education 112.) Study and critical analysis of the most suitable literature for children of the elementary grades as a basis for the appreciation, selection, and presentation of such material. Required for 60-hour certificate; not to apply on minimum requirements for major.

Second semester. Two hours.

201-202. AMERICAN LITERATURE. For all sophomores. Primarily a study of representative writers from the Colonial period to the present, with an introduction to types of literature and literary movements. Students are encouraged to relate their readings to other divisions of the college curriculum, and to study one writer intensively during each semester.

Each semester. Three hours.

303-304. HISTORY OF ENGLISH LITERATURE. A general survey of English literary history from the Anglo-Saxon beginnings, accompanied by classroom introductory study of selections from the greater English writers from Beowulf to the present. Lectures, recitations, and papers. Required of all majors in the department.

Each semester. Three hours.

305. THE NOVEL IN ENGLISH. The novel as a type of literature in a variety of forms and with many purposes, from 1740 to 1940. Several are read by all members of the class. Supplementary reading for round-table discussions. Lectures on representative novelists of each century. Individual reports.

First semester. Three hours. (1949-1950)


Second semester. Three hours.

307. LITERARY ESSAY. A study of the essay as a type of literature from Montaigne to the present. Reading of informal and formal essays illustrating points of view, literary trends, and critical opinions.

First semester. Three hours. (1950-1951)

311. ADVANCED COMPOSITION. A study of several literary forms. Students are encouraged to submit essays, short stories, opinion papers, and poems. Considerable attention to individual interests through weekly projects. Intended to meet the needs of students who wish an advanced course in composition.

First semester. Two or three hours. (1950-1951)

313. SEVENTEENTH CENTURY. A detailed study of the nature of poets and prose writers of the seventeenth century with special emphasis on Donne and metaphysical poets; Bacon, Burton, Browne, and others. The Restoration Period; Dryden, and memoir writers.

First semester. Three hours. (1950-1951)

314. EIGHTEENTH CENTURY LITERATURE. A period study of main currents of eighteenth century thought. The course will relate the literature to social and political events. Poets and prose writers from Pope through Blake, with library reading and reports.

First semester. Three hours. (1948-1949)

315-316. HISTORY OF DRAMA. The first semester deals
with the development of the drama from the Greeks to Shakespeare. The second semester deals with the drama from Shakespeare to the present time.

Each semester. Three hours. Required of all majors in Drama.

317. ROMANTIC MOVEMENT. A period study of the Romantic Movement in the nineteenth century, with extensive reading of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. Consideration is given to other poets and to related prose.

First semester. Three hours. (1949-1950)

318. VICTORIAN LITERATURE. A period study of the chief literary trends in England from 1832 to 1900. Poets and prose writers are studied through selections and outside reading. Seminar discussions and reports.

First semester. Three hours. (1949-1950)

403. MILTON AND HIS AGE. Careful reading of Milton's poetry and selected prose. The place of Milton in his age, with selections from Cavalier, Anglican, and Puritan writers of the seventeenth century.

First semester. Three hours. (1950-1951)

404. CHAUCER. A reading of Chaucer's chief works, and a study of life in the fourteenth century. Introduction to Middle English, and Chaucer's use of sources and versification. His reputation and influence in later periods of English Literature.

Second semester. Three hours. (1950-1951)

405. LITERARY CRITICISM. Principles and trends in literary criticism as found in selected works of important writers in England and America. Special attention to sources, cross currents, definitions, and terminology. Contemporary writers are included.

First semester. Three hours. (1950-1951)

411-412. SHAKESPEARE. (Also listed as Drama 411-412.) The comedies, tragedies, and historical plays in chronological order are read and discussed in class. An appreciation of modern interpretations of the characters and scenes. Supplementary readings cover the social, economical, and historical background of Shakespeare's period.

Each semester. Three hours.

413-414. WORLD LITERATURE. Important movements in the literatures of the principal European countries, especially Greece, England, France, Italy, Spain, Portugal, Germany, the Scandinavian countries, and Russia. The relation of literature to religion and to the social, economical, and political movements will be studied.

Each semester. Three hours. (1949-1950)

420. INTEGRATING SURVEY. A review of English and American literature, required of all majors. Extensive reading of authors not covered in course work is encouraged. Discussions and lectures.

Second semester. Two hours.

Journalism

205. JOURNALISM. A study of journalistic fundamentals combined with a survey of the field of journalism. Special attention to the news story form and the journalistic style of writing. Class work with actual practice in writing for the college paper.

Second semester. Two hours. Prerequisite: Journalism 205.

206. JOURNALISM. A continuation of Journalism 205. Emphasis on specialized forms of journalistic writing such as features, editorials, interviews, and columns. Copy-reading, headline writing, newspaper make-up, and radio journalism.

First semester. Two hours. Prerequisite: English 101-102.

321-322. ADVANCED JOURNALISM PRACTICE. For those who have completed four hours of work in journalism, additional credit of two hours is available for continued work in supervised writing for the college newspaper and other publications. One hour credit per semester for two semesters for those who enroll in advanced journalism practice and make regular contributions to school publications. The writing will be done under the supervision of the journalism instructor.

Each semester. One hour. Prerequisite: Journalism 206.

Speech and Drama

REQUIREMENTS: A student majoring in the department may select a majority of his hours from either the field of Speech or the field of Drama, but in either case must include the following: Speech 101, Drama 208; and Speech or Drama 420. Those wishing to emphasize speech should include Speech 102, 103, 407. Those wishing to emphasize drama should include Drama 207, 307, 315-316, and 411-412.

Speech

101. FUNDAMENTALS OF SPEECH. Prerequisite to most courses in speech and drama, except debate and discussion. Purpose is to develop confidence, poise, directness, and conversational style in delivery through proper use of voice and body in presenting ideas. The place of speech among the arts will be stressed. An-
102. PUBLIC SPEAKING. Continuation of Speech 101 with a more critical study of techniques of speech with a special emphasis on voice and bodily actions.

First semester. Two hours. Prerequisite: Speech 101.

103. ARGUMENTATION AND DEBATE. Required of all freshmen and students wishing to participate in intercollegiate debate. Study of argumentation, debating technique with special emphasis on reasoning and research, and practice on intercollegiate debate questions.

First semester. Three hours.

200 A, B, C. ELEMENTARY APPLIED DEBATE. Concentrated study and practice on the National intercollegiate debate question. Credit restricted to students who participate in intercollegiate debate. Open to freshmen second semester by permission of instructor.

Each semester. One hour.

205. INTRODUCTION TO RADIO BROADCASTING. Microphone technique, sound effects, announcing, program planning, continuity writing, and radio speech. The social, educational, and economic aspects of radio and television will be considered.

First semester. Two hours.

206. RADIO WORKSHOP. Advanced practice in announcing; preparation and production of various types of radio programs; news analysis, group discussion, radio drama, and special types of radio speeches. Participation in actual broadcasts over KTJO and commercial stations if possible.

Second semester. Two hours. Prerequisite: Speech 205.

300 A, B, C, D. ADVANCED APPLIED DEBATE. Continuation of Speech 200. Credit may apply on speech major. A total of seven hours of applied debate in addition to Speech 103 may be applied toward a major in Speech.

Each semester. One hour.

407. ADVANCED PLATFORM SPEAKING. A rounding out course for speech majors and upper classmen who wish to cultivate a style of speaking required for public appearances. Representative types of orations and extemporaneous speeches will be studied. Especially recommended to students preparing for the ministry, public service, social leadership, and to students who wish to take part in intercollegiate speaking contests.

First semester. Three hours.

410. SPECIAL PROBLEMS. An opportunity for the gifted student and the student with special interests to pursue research and creative activity in speech and drama not covered by the regular curriculum.

Either semester. One to three hours.

420. INTEGRATION. Integration of all work in the field of Speech and Drama; preparation for comprehensive examination.

Second semester. One to three hours.

Drama

207. ACTING. Emphasis on theory and technique of acting. Abundant training in characterization is provided through class exercises in pantomime, the one-act play, and special scenes taken from standard and classical plays.

First semester. Three hours.

208. ORAL INTERPRETATION. Required of all speech majors. Study of technique of oral interpretation with abundant practice in oral interpretation of the Scriptures and selected poetry and prose. Opportunities for public appearance will be provided.

Second semester. Two hours.

305. STAGECRAFT. Building and painting scenery, arranging sets and properties, stage architecture, stage lighting, and make-up.

Three hours. (Credit will be given only when a college play is to be presented.)

307. PLAY PRODUCTION. Choosing the play, casting, rehearsing, principles of stagecraft, stage lighting, make-up, business management, etc.

First semester. Three hours.

315-316. HISTORY OF DRAMA. (See description under English.) Required of all drama majors. Credit may be given either in the Department of Drama or the Department of English.

Each semester. Three hours.

402. TECHNICAL THEATRE ASSISTANCE. All phases of play production. Acting, directing, stagecraft, lighting, make-up, and business management. Students should be free to work Saturdays and evenings during the six-week period when the all-college play is being produced. Admission by consent of instructor.

One hour. Prerequisite: Drama 207, 305, 307. (Credit will be given only when a college play is presented.)

410. SPECIAL PROBLEMS. (See description under Speech.)
411-412. **SHAKESPEARE.** (See description under English.) Credit may be given either in the Department of English or the Department of Drama. Required of all drama majors.

Each semester. Three hours.

420. **INTEGRATION.** (See description under Speech.)

**Foreign Languages and Literature**

**REQUIREMENTS:** A major in Spanish or French is offered, twenty-four hours beyond Spanish 101 or French 101, twelve hours of which must be taken in 300 and 400 courses. A combination major may be taken in Spanish and French, 22 hours of one language and 16 of the other. For a divisional major see page 49.

A student presenting two high school units in a foreign language has the requirement for a major in that language reduced 5 hours.

Requirements for the study of a foreign language depend on the division in which one majors. See requirements under Language and Literature Division, or consult the major professor.

**Spanish**

101. **ELEMENTARY SPANISH.** Fundamentals of grammar. Stress is laid on pronunciation, vocabulary building, and a foundation for reading and speaking.

First semester. Five hours.

102. **ELEMENTARY SPANISH.** Continuation of Course 101. Stress is laid on the development of the reading ability. Conversation and dictation are emphasized.

Second semester. Five hours. Prerequisite: Spanish 101, or one unit of high school Spanish.

201. **INTERMEDIATE SPANISH.** Selected readings from representative writers. Grammar review and conversation. Collateral reading.

First semester. Three hours. Prerequisite: two units of high school Spanish, or one year of college Spanish.


Second semester. Three hours. Prerequisite: Spanish 201, or equivalent.

*301. **SURVEY OF SPANISH LITERATURE.** Development of literature from earliest time to 1900. Readings of representative authors of the different periods.

First semester. Two or three hours. Prerequisite: Spanish 202, or equivalent.

*302. **SPANISH-AMERICAN LITERATURE.** Novels, dramas, essays, and poems of the outstanding writers of Spanish America.

Second semester. Two or three hours. Prerequisite: Spanish 202, or equivalent.

*303. **MODERN SPANISH DRAMA.** General survey of modern Spanish drama.

First semester. Two or three hours. Prerequisite: Spanish 202, or equivalent. (1949-1950)

*304. **MODERN SPANISH NOVEL.** Critical study of the works of the best Spanish novelists, including Latin Americans.

Second semester. Two or three hours. Prerequisite: Spanish 202, or equivalent. (1949-1950)

*305. **THE CLASSIC SPANISH DRAMA.** Critical study of the dramas of Lope de Vega, Calderon, Tirso de Molina, Ruiz de Alarcon, etc.

First semester. Two or three hours. Prerequisite: Spanish 202, or equivalent.

*306. **CERVANTES AND THE PICARESQUE NOVEL.** Selections from the works of Cervantes and from some of the picaresque novels.

Second semester. Two or three hours. Prerequisite: Spanish 202, or equivalent

307. **CONTEMPORARY SPANISH LITERATURE.** Trends in the literature of Spain and Latin America with emphasis on poetry, the novel, and some non-fiction.

First semester. Two or three hours. Prerequisite: Spanish 202, or equivalent. An alternate to course 305.

401. **ADVANCED SPANISH GRAMMAR.** Chiefly for majors. Review of grammar, with oral and written composition.

First semester. One hour.

420. **INTEGRATING COURSE IN SPANISH.** A review in preparation for the comprehensive examinations. Readings, discussion, and reports form the program of the seminar.

Second semester. One or two hours.

*Courses 301-302, 303-304, 305-306, form rotating groups of which one will be given each year thus fulfilling a major.
French

   First semester. Five hours. (1949-1950)

102. ELEMENTARY FRENCH. Grammar continued. Emphasis on learning to read and on pronunciation. Development of oral and aural ability.
   Second semester. Five hours. Prerequisite: French 101, or one unit of high school French. (1949-1950)

   First semester. Three hours. Prerequisite: French 102, or one unit of high school French. (1950-1951)

   Second semester. Three hours. Prerequisite: French 201, or equivalent. (1950-1951)

301. SURVEY OF FRENCH LITERATURE. French literature before 1800, using a basic text such as “Omnibus of French Literature” Vol. I, Steinhauer and Walter. Collateral reading, reports.
   First semester. Two or three hours. Prerequisite: French 202, or equivalent.

   Second semester. Two or three hours. Prerequisite: French 202, or equivalent.

German

   First semester. Five hours. (1950-1951)

   Second semester. Five hours. Prerequisite: German 101, or one unit of high school German. (1950-1951)

   First semester. Three hours. Prerequisite: German 102, or two units of high school German, or equivalent. (1949-1950)

202. INTERMEDIATE GERMAN. Conversation. Composition. Collateral reading. Reading of selected works representative of the most important writers of prose and poetry.
   Second semester. Three hours. Prerequisite: German 201, or its equivalent. (1949-1950)

Greek Language and Literature


Division of Fine Arts

The general aim of the Division of Fine Arts is two-fold: To promote an understanding and appreciation of the fine arts; to train individual students in the skills and accomplishments of specific arts.

Arts

101-102. MAN AND THE ARTS. A survey course in the general knowledge and appreciation of the arts, introducing the fields of sculpture, music, architecture, painting, ceramics, etc. Illustrated lectures, art exhibits, the artist concert series, and a guided tour through the William Rockhill Nelson Art Gallery in Kansas City are a part of the course. Prepares for the general education examination.
   Each semester. One hour.

103-104. DRAWING AND DESIGN. The practice of art with work in color, design, perspective, sketching, figure drawing, lettering, composition and the analysis of form. One laboratory period,
two to three hours.

Each semester. One hour.

213-214. ELEMENTARY SCHOOL ART. An introductory course dealing with theory, appreciation, design, and crafts. Required for 60-hour certificate.

First semester: one laboratory period, two to three hours. One hour.

Second semester: lectures and projects, one laboratory period, two to three hours. Two hours.

Music

The Music Department offers a major in music for the Bachelor of Arts degree, for those who desire music as a leading interest, but with a broad general culture, a Bachelor of Music Education for those who desire to specialize in music as a teaching field, and a Bachelor of Music degree for those who desire to major in piano, organ, voice, or violin.

REQUIREMENTS: A major in music for the degree of Bachelor of Arts consists of the following courses:

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Harmony 107-108</td>
<td>6</td>
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<tr>
<td>Harmony 201-202</td>
<td>4</td>
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<tr>
<td>Music History and Literature 301-302</td>
<td>4</td>
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<tr>
<td>Form and Analysis 303-304</td>
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<tr>
<td>Conducting 311-312</td>
<td>8</td>
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<tr>
<td>Applied Music (exclusive of any organizati activity)</td>
<td>6</td>
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</tbody>
</table>

Not more than eight hours in applied music will be credited toward the degree of Bachelor of Arts unless balanced by an equal amount of additional theory. A maximum of twelve hours may then be allowed.

Candidates for the state certificate to teach music with other branches should major in music for the Bachelor of Arts degree, including Music 211-212, 311, and 313-314 among their electives, besides meeting the general state requirements.

Credit is granted for work in applied music on the basis of one hour for 18 one-half hour lessons satisfactorily completed, and each course as numbered below represents that amount of work. More than one lesson in a subject may be taken each week, provided that the normal hour-load is not exceeded.

All music majors must be able to play simple accompaniments on the piano.

All students entering first year music theory courses must take an entrance examination in the fundamentals of music.

The courses listed below may be varied according to the needs of each individual student.

Elementary courses in piano, violin, and voice are available.

Credit will not be given for such preparatory work.

Modern two and three-manual organs in Ottawa churches are available for organ practice at 25c an hour.

Private lessons are of one-half hour duration.

Lessons missed by the student will not be made up.

Lessons falling on a school holiday will not be made up.

All students studying applied music for credit are required to take examinations at the end of each semester. The examination shall be the performance before the music faculty of some selection studied during the semester.

Organ

231-232-233-234. Prerequisite: Piano 124. For beginners: Stainer, The Organ, Barnes School of Organ Playing or Dickinson's Book for Beginners; Bach, Little Preludes and Fugues; easier works of Mendelssohn, Guilmant, and other old and modern masters.

331-332-333-334. Prerequisite: 234. Pedal Studies by Nilson or Clemmens; Preludes and Fugues of Bach and Mendelssohn; Sonatas by Mendelssohn, Guilmant and others; modern pieces; accompanying of solo and chorus; playing of the church service; transcribing for organ.

431-432-433-434. Prerequisite: 334. Difficult preludes and fugues; Sonatas, symphonic and concert pieces by Widor, Guilmant, Franck, Vierne and others; program making; extemporization and transposition.

Piano

121-122-123-124. Hanon, The Virtuoso Pianist; Preyer, Twenty Etudes Op. 35; Bach, Two-Part Inventions; Hoffman, Etudes for Left Hand (Bk 2); Czerny, Opus 740; Cramer Studies; Kullak Octave Studies; Sonatas by Haydn, Mozart and Beethoven; pieces.


321-322-323-324. Prerequisite: 224. Philipp, Daily Exercises; Bach, Well-Tempered Clavichord; Clementi, Gradus ad Parnassum; Moscheles, Op. 70; Seeling, Concert Etudes Op. 10; Wright, Ann Louise, 12 Etudes; Concertos of Beethoven, Mendelssohn, Saint-Saëns and others.

421-422-423-424. Prerequisite: 324. Joseffy, School of Ad.
advanced Piano Playing; Philipp, Etudes for the Left Hand; Rubenstein, Op. 23; Chopin Etudes; Sonatas and Concertos of Beethoven, Weber, Grieg, MacDowell and others.

**Violin**


241-242-243-244. Prerequisite: 144. Kayser and Kreutzer studies, scale studies, double-stops, sonatas by Handel, Corelli, Nardini, Concertos by Rode, Saint-Saens, etc.

341-342-343-344. Prerequisite: 244. Rode Caprices, Donizetti Opus 35, scale studies, sonatas by Bruch, Wieniawski, Mozart, sonatas by Greig, Tartini, Corelli, Beethoven; solos from modern and classic literature.

441-442-443-444. Prerequisite: 344. Gavinius studies, Schradieck, Vol. II; scale studies, sonatas by Mendelssohn, Beethoven, Lalo; sonatas by Beethoven, Brahms, Franck; concert solos from modern and classic literature.

**Voice**

151-152-153-154. Prerequisite: The ability to read music. Posture and breath control. Intensified breathing taught through special exercises and its application made to tone. Exercises for special needs of the individual voice for tone production and breath control. Technical exercises selected from Meyer, Concone, Marchesi. Simple English songs and church solos.


**Theory**

101. **FUNDAMENTALS OF MUSIC.** A basic course in the rudiments of music to be taken as a prerequisite or co-requisite for the practical music courses. This is designed for students who have not had previous training in music.

First semester. One hour. Two class periods each week.

103-104. **EAR TRAINING AND SIGHT SINGING.** A study of scales and intervals closely correlated with the course in Harmony to encourage the student to read, hear, and write music from the melodic as well as the harmonic standpoint. Exercises are sung according to the system of solfeggio.

Each semester. One hour.

105-106. **MUSIC APPRECIATION.** A lecture course designed to help the student to understand and enjoy music. This course is planned for majors in other departments who wish a general survey of the art.

Each semester. Two hours.

107-108. **HARMONY.** A three-fold approach to the study of harmony through the keyboard, the harmonization of basses and sopranos, and the application of ear-training to stimulate a greater sensitivity to the actual sound of chords and their progressions. The course treats modulation, seventh chords and their inversions, and provides for originality in the composition of two and three-part song forms.

161-162. **STRING INSTRUMENTS.** For public school music majors to give them a playing knowledge of most of the technical devices used in the playing of string instruments, including all types of bowing, shifting, all positions, double stops, and the vibrato.

Each semester. One hour.

164. **BRASS AND WOODWIND INSTRUMENTS.** For the public school music majors which presents the problems of fingering and tone production in the playing of the brass and woodwind instruments. Some treatment of the percussion instruments is also made.

Second semester. One hour.


Each semester. Two hours. Prerequisite: Music 108.

203-204. **EAR-TRAINING AND SIGHT-SINGING.** Continuation of the first year.

Each semester. One hour.

211-212. **GRADE SCHOOL MUSIC.** Acquaints the student with materials and modern methods of grade school music. Selec-

Each semester. Three hours. Credit in either Music or Education.


Each semester. Three hours.


Each semester. Two hours. Prerequisite: Music 202.

305-306. COUNTERPOINT. A course in the melodic and polyphonic elements of music, which is designed to develop some facility in melodic writing and the combining of parts. Rules governing a melody. Counterpoint in two, three, and four parts. Combination of various species of strict counterpoint.

Each semester. Two hours. Prerequisite: Music 202.


First semester. Two hours. Prerequisite: The ability to read music in part-singing. Note: It is recommended that students interested in Church and Choral Music take Conducting 311 and Church and Choral Music 316.

312. CONDUCTING AND ORCHESTRATION. Technique of conducting, score reading, and arranging music for instrumental organizations.

Second semester. Two hours. Prerequisite: Music 108.


Each semester. Two hours. Credit in either Music or Education.

316. CHURCH AND CHORAL MUSIC. The field of church music, historical and practical, and the attitudes and practices of worship. Study of hymns, choirs, and choral literature. Detailed study of the organ and other instruments. Study of all types of formal and informal services. Music for the church school.

Second semester. Two hours.

317-318. METHODS AND REPERTOIRE. Methods and repertoire of the major interest of the student.

Two hours through the year for credit to be allowed.

401-402. CANON AND FUGUE. This course presents to the advanced students all the complex devices of involved polyphonic music and seeks to develop facility for original work in canon and fugue.

Each semester. Four hours. Prerequisite: Music 306.

Ensemble

Not more than four hours of credit in ensembles may be offered toward the degree of Bachelor of Arts. Credit for ensembles will not be given for more than two hours in any one year.

STRING QUARTETS and other ensemble groups are organized as advanced students are available. One hour credit per semester.

THE CONCERT CHOIR is made up of thirty-five members selected from the Symphonic Choir as a traveling concert choir.

THE SYMPHONIC CHOIR is seventy-five voices selected for concert study and performance. Rehearsals Tuesday and Thursday at 3:15. One hour credit.

THE ORATORIO CHOIR is made up of the Symphonic Choir and other students interested in singing. Usually the Messiah is sung the first semester, and an oratorio or cantata the second semester. No credit.

THE UNIVERSITY ORCHESTRA is an organization of college students interested in instrumental music on an ensemble nature. Concerts are given in Ottawa and elsewhere. Credit, one hour per semester.

THE UNIVERSITY BAND is a concert and marching organization which takes an active part in the athletic events of the Uni-
versity, and appears in concerts and celebrations in Ottawa and elsewhere during the year. Credit, one hour per semester.

Recitals

Student recitals are given at 4:15 on the second and fourth Tuesdays of each month beginning in November. These recitals give the students opportunity of expression in public performances and the knowledge of music literature. All students majoring in music are required to attend and all other students are welcome. Individual recitals in organ, piano, violin, and voice are given in the second semester by such advanced students as the faculty may select.

Division of Religion and Philosophy

The general aim of the Division is to give the student an understanding of the main problems of life and reality, and of the contribution which Religion and Philosophy have made to their solution. The following courses prepare for the General Examination in this division: Religion 101-102 or Philosophy 307 and Religion 304.

REQUIREMENTS: Twenty-four semester hours are required for a major in this division.

Religion

101. RELIGION IN LIFE. An introduction to the Christian world view. The beginning student is given an understanding and appreciation of the part which religion has played in the development of civilization and of life today. Emphasis is placed on the Christian faith as the answer to man's spiritual problem.
   First semester. Three hours.

102. BIBLE: NEW TESTAMENT LIFE AND LITERATURE. A study of the content of the New Testament writings in the light of the political and cultural life of the time. The formation of the canon. Special emphasis is given to the life of Jesus and of Paul, and to the growth of the Christian Church during the Apostolic period.
   Second semester. Three hours.

201. BIBLE: OLD TESTAMENT LIFE AND LITERATURE. A course designed to give the student a knowledge of the Old Testament scriptures, as well as a general understanding of Hebrew life and religion. Special study is made of the form and content of the prophetic literature and of its contribution to the Hebrew-Christian tradition.
   First semester. Three hours.

203. PRACTICUM IN RELIGION. The technique of the Christian ministry for students who have been licensed to preach.
   First semester. Two hours. An additional hour of credit may be obtained for supervised field work.

204. BAPTISTS: THEIR HISTORIC FAITH AND PRACTICE. The faith and practice of Baptists and of their contribution to ecumenical Christianity and the democratic ideal in religion.
   Second semester. Two hours.

206. MODERN MISSIONS. The history and background of the modern missionary movement. Philosophy of Missions. Post-war missionary opportunity. Problems of missionary work today.
   Second semester. Three hours. (1949-1950)

301. CHRISTIANITY OF THE MIDDLE AGES AND THE REFORMATION. A study of the course of Christianity in Europe from the rise of the Catholic movement through the period of the Reformation. Scholasticism, mysticism, humanism, and the Renaissance are considered with reference to their effect upon Christian life and belief.
   First semester. Three hours. (1949-1950)

302. CONTEMPORARY CHRISTIANITY. The development of Christianity since the Reformation. An appreciative survey of modern denominations and churches with particular reference to their origins, government, teachings, and special contributions. The history of Christianity in America. The role of the churches of America in contemporary life and society.
   Second semester. Three hours. (1949-1950)

304. THE SOCIAL INFLUENCE OF CHRISTIANITY. A study of the social teachings of Jesus and of the social and ethical teachings of the early Christian Church. The growth of Christian influence in the life and thought of Europe during the Middle Ages. The social effect of the Reformation. The social influence of Christian movements in the modern world.
   Second semester. Three hours. Credit in either Religion or Sociology.
305. **INTRODUCTION TO RELIGIOUS EDUCATION.** Objectives and curricula. Fundamentals of method arising out of an understanding of the laws of learning, the nature of religious experience, and the needs of each age group. Educational aspects of worship. Educational evangelism.

First semester. Three hours. (1950-1951)


Second semester. Three hours. (1950-1951)

309. **CHURCH LEADERSHIP.** A study in practical churchmanship that inquires into the nature and function of the church in the New Testament era and in the modern world. Baptist policy and practice are emphasized as a unique contribution to the movement of ecumenical Christianity. The role of lay responsibility in the local church and in the world fellowship of Baptists is studied with a concern for creative leadership.

First semester. Three hours.


First semester. Three hours. (1950-1951)

**Philosophy**

307. **ELEMENTS OF PHILOSOPHY.** A study of the functions and principles of philosophical inquiry pertaining to the basic problems of reality and man’s nature and function in the universe. Selected readings in the work of philosophers illustrative of materialism, idealism, pragmatism, intuitionism, and neo-realism.

First semester. Three hours.

401. **MODERN PHILOSOPHY.** Principal systems of philosophic thought from Descartes to the present. Main currents of present-day thought in Europe and the United States. Writings of the great philosophers.

First semester. Three hours. (1949-1950)
Honors--1947-48
Class Honors — Ten or More Hours of Course Honors

SENIORS
Dorothy Myers — 12 hours
Opal Phares — 15 hours
Antoinette Work — 15 hours
Morton Work — 27 hours

JUNIORS
LaVerne Buffum — 19 hours
William Budy — 19 hours
Zed Daniels — 12 hours
James Klapio, Jr. — 13 hours
Spencer Martin — 15 hours
Blaine Rush — 24 hours
Pot Spillman — 26 hours

SOPHOMORES
Merle Brenner — 15 hours
Ray Browning, Jr. — 30 hours
Stanley DeFries — 13 hours
Duane Edge — 11 hours
Ann George — 11 hours
Max Mason — 18 hours
Patricia Peterson — 21 hours
Thomas Walsh — 17 hours

FRESHMEN
Lynn Cobb — 12 hours
Betty Lou Klein — 15 hours
William Martin — 14 hours

SIGMA ALPHA HONORS SOCIETY
Roy Browning, Jr.
LaVerne Buffum
William Budy
Willard Hegberg
James Kipli, Jr.
Jean Montgomery
Patricia Peterson
Maryl Phares
Blaine Rush
Pot Spillman
Ann Martin

Society Associates
Charles Hamilton
Ruth Harris
Agniesc Hayward
Doris Herrold
Betty Lou Klein
Elaine Martin
Spencer Martin

DEGREES--1948

BACHELOR OF ARTS
Dorothy Beatrice Allen
Charlene Darce Bouse
Betty Josephine Boyd
B. Harrison Brewar
Lura Marion Bucknell
Virginia Pinkston Bush
Margaret L. DeWild
William V. Dixon, Jr.
Ruth Nadine Elder
Louise Louise Eppler
Esther Louise Franks
Carolyn Christine Gangwish
Betty Helene Goff
Martha K. Gonsor
Gladys Robertson Hamilton
Burl D. Harmon
Ruth Eunice Harris
Jane Heyton
Lynn E. Hodges
John E. Hooge
Daniel Henry Johnson
Grace Holme Jorgensen
Avila Anne Kimmel
Patricia Kinlin
Ruth Beryl Knutze
Frances Margaret Lynn
*In absentia

BACHELOR OF SCIENCE
Jean Joan Cayat
Mary Alice Culbertson
Anna Mabel Davis
Mary Ruth Dietrich
Charles Albert Hamilton
Madeline McHenry
Amos Benjamin Marsh
William H. Morgan, Jr.

BACHELOR OF MUSIC
Lorraine Rosen

Prizes and Scholarships
Ellen Sheldon Penny Memorial, Class of 1924—Lorraine Rosen, Council Grove, Kansas.
F. Smith Shuey Memorial, Class of 1909—Doris Schlesinger Hornick, Arkansas City, Kansas.
Liberty Memorial Fund, Class of 1918—Florence Olson, Gannett, Kansas.
Elizabeth Higgins Memorial, Class of 1917—Evelyn Hoyden, Concordia, Kansas.
Dorothy Johnson Scholarship—Betty Jane Elder, Ottawa, Kansas.
Dana Woman Memorial—Patricia Peterson, Jamestown, Kansas.
Bickel Scholarship—Tom Dickson, Fort Scott, Kansas.
Edwin and Louise Potter Scholarship—Sara Jean VantHorn, Wellsville, Kansas.
Stephenson Scholarship—Mary Meadows, Hutchinson, Kansas; Frances Cunningham, Denver, Colorado.
Jacob E. Smith Scholarship—William Schuessler, Denver, Colorado.
Ottawa High School Honor Scholarships—Mary Brown, Maxine Marie Ford, Edwin LeRoy Hou, Marilyn Jean Williams, Lillian A. Wilcox, Jr.
Registration of Students
Regular Session 1948-49

FRESHMEN

Adams, Dorothy
Adams, LaRuth
Adams, James
Allison, Mary
Anderson, Mary
Anderson, Roland
Anschutz, Aladine
Angell, Wayne
Asher, James
Attenhouant, Muriel
Aurelia, Isaac
Ball, Claire
Baran, R. J.
Beal, Kermit
Bell, Robert
Bennett, Francis
Biggar, Ruth
Borden, Richard
Blunt, Stanley
Boardman, Norma
Benham, Duane
Bowen, George
Brood, James
Brewer, Lilac Mae
Brooks, Charles
Brown, Elwood
Brown, Mason
Bruning, Marilyn
Buck, Mildred
Burrows, Charles
Byasi, Lois
Byron, Vernon
Byers, Chester
Caly, George
Campbell, Robert
Carroll, Ross
Carson, Harry
Chamberlain, Margaret
Clark, Mercedes
Clinkehead, Myrtle
Coleman, Robert
Cone, Walter
Connor, Frank
Conway, Bell
Corson, Hiram
Cotter, Harold
Craig, Lewis
Fenner, Jack
Fife, William
Ferry, Bill
Fon, Carl
Forsythe, Judah
Forsythe, Robert
Ford, Harry
Ford, Homer, Jr.
Ford, Irvin
Fosay, Bill
Fox, Matt
Funk, Margaret
Funk, William
Galloway, Albert
Gandy, Allen
Gandrud, Earl
Ganwisch, Carl, Jr.
Gardiner, Wesley
Garrity, Colby
Garrett, Marion
George, Ed
Gentry,跷
Giddings, Art
Gillespie, William
Gillman, Mabel
Gillman, Robert
Gilliland, John
Gillman, Roy
Gillman, Royce
Gillman, Ruth
Gillman, Susan
Gillman, Thomas
Gillman, Winfield
Gillman, Wm.
Gillman, William
Gillman, Wm. Wm.
Gillman, Wm. C.
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Gillman, Wm. C.
Gillman, Wm. C.
Special Students

Esther Bemmels
Amanda Bull
Anne Bundy
Charles Carr
Evelyn Carey
Clarion Cole
Mary Alice Culbertson
Beryl Cummings
Josephine Evans
Leonard Fanning
Oliver Fredricks
Jack Gaffey
Betty Grieve
Dorothy Harrison
Theodore Ingalls
Isabel Jacobsen
Grace Johnson

Arkansas City
Granada
Richmond
Independence
Ottawa
Ottawa
Ottawa
Ottawa
Ottawa
Ottawa
Ottawa
Ottawa
Ottawa
Saco, Maine

Kansan City
Leavenworth
Ottawa
Ottawa
Ottawa
Ottawa
Kansan City
Kansas City
Kansan City
Kansas City
Kansan City
Kansas City
Kansas City

Summer Session

Acack, Max
Allenbrand, Lella
Alm, Norma
Baker, Ina
Baker, Geneva
Bayles, Lillie
Bichler, Robert
Bell, Gene
Bent, Nola
Bishop, Gordon
Black, Lena
Blom, Clarence
Blackman, Virginia
Bond, Forrest
Brodbury, Barbara
Bremer, Hazel
Brennan, Evelyn
Brown, Mary
Brunsmei, Williavie
Burch, Frank, Jr.
Burnham, Samuel
Burns, William
Butler, Minnie
Calden, William
Cameron, Lona
Capp, Donald
Carls, Maxine
Carpeno, Charles
Clasen, Richard
Clinton, Ann
Cran, George
Crawford, Carl
Crawford, Darline
Crawford, Lona
Crawford, Margaret
Crawford, Margaret
East St. Louis, Ill.
DeWitt, Margaret
Dick, Margaret
Dick, Robert
Dick, Paul
Dorcas, Dorothy

Concordia
Chattanooga
Leavenworth
Leavenworth
Ottawa
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Ottawa
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Ottawa
Pittsburgh, Pa.
Pittsburgh, Pa.
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Ottawa

Daymon, Howard
Dawson, Mary
Elliott, Martha
Elliott, Gilbert
Erickson, William, Jr.
Evans, John
Fanning, Leona
Farny, William
Finch, Mildred
Flinch, Homer, Jr.
Foster, Gerald
Frear, William
Fredericks, Clinton
Garver, Edward
Gentry, Albert
Gilbert, Esther
Gilbert, Robert
Gleason, Margaret
Grebe, Fred
Granger, Virginia
Hannay, Carl
Hannay, Gerald
Hart, Clement
Hartman, Anna
Hatcher, Leon
Hawthor, Bob
Hawley, Bernard
Hawley, Mary
Hawthorne, William
Hazen, Norman
Heggie, William
Herrick, William
Heron, Irene
Heron, Louise
Holling, Grace
Holley, Allice Jo
Howell, Ross
Huffman, Mrs. Lecoy
Hughes, Stanley
Hull, Emma
Hutchinson, Mr.
Ingle, Mary
Kasting, William
Kavanagh, William

Concordia
Westphalia
Omaha, Neb.
Leavenworth
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 chiffon, Robert
Seymour, Thomas
Shannon, David
Sharp, Murray
Smith, Hazel
Sonnenreich, Robert
Sawell, Harvey
Springer, Wayne
Steele, Mary
Stephens, Dorothy
Stewart, Pickle
Stiles, Curtis
Stone, Herbert
Sutton, Elmer
Talley, Boyd
Talley, Claire
Talley, Don
Taylor, Mildred
Thompson, Baudah
Thorp, Eugene
Tuske, Herman
Trail, Melvin
Turner, Alice
Tuttle, David
Van Horn, Sarah Jean
VanVoorhis, Gladys
Vaughn, George
Vice, Paul
Waddell, James, Jr.
Wolfe, John
Wells, John
Wenn, Richard
Welles, Tom
Wheeler, Edward
White, Donald
White, Eleanor
White, Eugene
White, Gladys
Willis, Lily
Willis, Merle
Wilson, Addy
Wilson, Betty
Withey, Frances
Wright, Frank
Wright, Rosemary

Cobb, Gall
Cox, Darlene

Ottawa
Ottawa

Driver, Peggy

Melvern
## Enrollment Table
### 1948-49

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<tr>
<th></th>
<th>Regular Session</th>
<th>Summer Session</th>
<th>Grand Total</th>
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<tbody>
<tr>
<td></td>
<td>M</td>
<td>W</td>
<td>Total</td>
</tr>
<tr>
<td>Freshmen</td>
<td>113</td>
<td>88</td>
<td>201</td>
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<tr>
<td>Sophomores</td>
<td>100</td>
<td>47</td>
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</tr>
<tr>
<td>Juniors</td>
<td>103</td>
<td>39</td>
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<tr>
<td>Seniors</td>
<td>53</td>
<td>36</td>
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<tr>
<td>Majors</td>
<td>8</td>
<td>19</td>
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<tr>
<td>Post Graduates</td>
<td>1</td>
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<tr>
<td>Totals</td>
<td>377</td>
<td>230</td>
<td>607</td>
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Less Duplicates: 100

Net Enrollment: 706

<table>
<thead>
<tr>
<th>Students from Kansas</th>
<th>100</th>
<th>110</th>
<th>118</th>
<th>78</th>
<th>31</th>
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<tbody>
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<td>Students from outside Kansas</td>
<td>62</td>
<td>48</td>
<td>38</td>
<td>22</td>
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Net Enrollment: 706

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<thead>
<tr>
<th>Number of States Represented</th>
<th>19</th>
<th>16</th>
<th>13</th>
<th>10</th>
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<tbody>
<tr>
<td>Number of Foreign Countries</td>
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**Index**

- Absences: 34
- Academic Program: 19
- Activities: 45
- Administrative Officers: 31
- Admission Requirements: 37
- Advanced Standing: 37
- Airport: 42
- Alpha Mu: 47
- Alpha Pi Omega: 48
- Alumni Association: 50
- American Association of Colleges: 50
- American Citizenship: 28
- Art: 99
- Assistants: 56
- Athletic Board: 47
- Athletics: 49
- Attendance: 34
- Auditing Fee: 52
- Auditors: 36
- Aviation: 52
- Bachelor of Arts: 25
- Bachelor of Music: 26
- Bachelor of Music Education: 27
- Bachelor of Science: 26
- Bond: 105
- Basic Skills: 25
- Bible: 106
- Biology: 65
- Board of Trustees: 3
- Building: 65
- Business Administration: 80
- Calendar: 2
- Campus: 40
- Campus, The Ottawa: 49
- Ceremonies: 41
- Certificates: 29, 48
- Certificate of Achievement: 28
- Change of Courses: 53
- Chapel Attendance: 34
- Charlton Cottage: 41
- Chemistry: 70
- Choir: 105
- Christian Loy Leadership: 28
- Christian Organizations: 47
- Christian Service: 29
- Christianity: 106
- Classification of Students: 84
- Clubs, Divisional: 48
- Clubs, Social: 46
- Commerce: 33
- Committees of Faculty: 8
- Comprehensive Examinations: 25
- Counsellor: 43
- College Honors: 22
- Course of Study: 35
- Curriculum, Organization of: 19
- Debate: 94
- Degree Requirements: 94
- Degrees Offered: 24
- Degrees, 1948: 111
- Discipline: 48
- Divisional Clubs: 48
- Divisional Language Club: 48
- Divisional Organization: 19
- Divisions of:
  - I Health and Physical Education: 58
  - II Mind, Personality and Education: 58
  - III Natural Sciences and Mathematics: 67
  - IV Social Sciences: 74
  - V Languages and Literature: 89
  - VI Fine Arts: 99
  - VII Religion and Philosophy: 106
- Dormitories: 41
- Drama: 93
- Economics: 80
- Educational Counseling: 43
- Educational Standing: 39
- El Centro for Americanos: 48
- Employment: 56
- Engineering: 30
- English: 40
- English Club: 48
- Enrolment: 37
- Entrance Requirements: 37
- Equipment: 41
- Examinations, Comprehensive: 25
- Examinations, General: 13
- Examinations, Preliminary: 25
- Examinations, Special: 53
- Extra Hours: 36
- Expenses: 51
- Extra-curricular Activities: 36
- Faculty: 6
- Fees: 51
- Financial Aid: 54
- Flying: 73
- Foreign Language: 96
- French: 98
- Freshman Week: 34
- General Examination: 25
- General Fee: 51
- General Information: 39
- General Requirements: 24
- Geography: 69
- German: 98
- Government: 79
- Grade Points: 34
- Grades: 94
- Graduate Record Examination: 25
- Graduation: 34
- Graduation Honors: 84
- Graduation Requirements: 22
- Grants in Aid: 55
- Greek: 99
- Greek Letter Club: 46
- Guidance: 43
- Health: 44
- History: 50
- History of the Institution: 93
- Home Arts: 88
- Home Management: 29
- Honorary Societies: 44
- Honors Course: 23
- Honors Roll: 23
- Honors Society: 23

119
INVESTMENT IN CHRISTIAN EDUCATION

and

OTTAWA UNIVERSITY

1. GIFTS: It is generally known that the cost of providing college education is about twice the amount the student pays. The difference must be made up from income of invested funds and from gifts by the denomination and friends. Furthermore, provision must be made for the continued growth of the University if it is to measure up to its task.

To this end Ottawa University welcomes gifts, either large or small, from those interested in the success of Christian education.

2. BEQUESTS: An increasing number of friends of Christian education remember in the distribution of their estates such institutions as Ottawa University. Why not make it one of your "children"? Such a bequest may be made in your will as follows:

I give and bequeath to the Board of Trustees of Ottawa University, Ottawa, Kansas, the sum of $____________ (or the following described property) for the following purposes, to-wit:

Upon general principles it is better to leave funds to the Trustees to be used at their discretion. They are familiar with the most urgent needs of the University. A form of bequest that leaves the funds entirely in the hands of the Trustees is as follows:

I give and bequeath to the Board of Trustees of Ottawa University, Ottawa, Kansas, the sum of $____________ (or the following described property):

3. Ottawa University offers Annuity Bonds to those who wish to invest for life income. The semi-annual interest rate is the highest which sound financing will justify.

We urge friends of the Christian cause to make liberal provision for this most needed type of education.

For further information address Andrew B. Martin, president of Ottawa University, Ottawa, Kansas.