

A major in biology for the B.A. degree includes a minimum of twenty-four hours in biology. A biology major for the B.Sc. degree includes a minimum of thirty hours in biology and thirty 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, 200, 201, 203, 204, 206, 304, 401, 405, 420.

2. Course looking toward medicine and related fields: 100, 200, 201, 203, 204, 302, 304, 305, 307, 420.

3. Agriculture, forestry, conservation and related fields: 100, 200, 203, 204, 206, 301, 302, 304, 305, 401, 420.

Students who expect to enter graduate school after graduation, should elect enough language to obtain a reading knowledge of French and German.

100. *GENERAL BIOLOGY*. A survey of the plant and animal kingdoms. Considerations of the principles of plant and animal biology. Basic course for the general education requirement.

Either semester. Four hours. Laboratory and lecture as arranged. This course or equivalent prerequisite to all other courses in the department.

200. *GENERAL ENTOMOLOGY*. A lecture, laboratory, and field course designed to acquaint the student with the fundamentals of insect classification, life histories, body structure, development, relationships with plants, animals, and man. Study of control of noxious forms.

Second semester. Three hours. Two lectures and one laboratory period. Prerequisite: Biology 100. (1953-1954)

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. Prerequisite: Biology 100.

204. *GENERAL ZOOLOGY*. Development, behaviour, and relationships of a series of representative types of animals, both invertebrate and vertebrate. Emphasis on scientific observation and interpretation.

Second semester. Four hours. Two lectures and two laboratory periods. Prerequisite: Biology 100.

206. *CONSERVATION*. A study of 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. Consideration of the management of parks, forests, grazing lands, and wild game.

Second semester. Three hours. Prerequisite: Biology 100. (1952-1953)

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 and 203. (1953-1954)

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

First semester. Three hours. One lecture and two laboratory periods. Prerequisite: Biology 100 and consent of the instructor. (1952-1953)

304. *SYSTEMATIC BOTANY*. Identification and classification of plants 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. Laboratory and lecture as arranged. Prerequisite: Biology 204. (1952-1953)

307. *COMPARATIVE ANATOMY*. Comparative anatomy of vertebrates and closely related animals. Emphasis on the mammal.

First semester. Five hours. Two lectures and three laboratory period. Prerequisite: Biology 204.

401. *GENETICS AND EUGENICS*. Fundamental principles of inheritance and the application of these principles to plants, animals, and social problems.

First semester. Two hours. Prerequisite: Biology 100. (1953-1954)

405. *METHODS IN BIOLOGY*. Collection and preservation of biological material. Techniques in preparing microscope slides. A survey of literature available for use in the secondary school.

Second Semester. Four hours. Lectures and laboratory as arranged. Open to senior biology majors and minors.

406. *EMBRYOLOGY*. Embryology of animals, chiefly vertebrates. Maturation of germs cells, fertilization, segmentation, origin and development of organs. A detailed study of the chick and the foetal pig.

Second semester, on demand. Five hours. Three lectures and two laboratory periods. Prerequisite: Biology 307.

410. *SPECIAL PROBLEMS*. Opportunity for qualified students to undertake a research problem.

Either semester. Two hours. Open to biology majors in the senior year.

420. *INTEGRATING SURVEY*. Integration of the fields of biological science as preparation for comprehensive examination. Use of seminar methods and of discussion.

Second semester. Two hours. Open to seniors.

Chemistry

REQUIREMENTS: For a B.A. degree in Chemistry, twenty-four semester hours of chemistry, including Chemistry 420 are required. For a B.Sc. degree, thirty semester hours of chemistry, and Chemistry 420, Physics 201-202, and Mathematics 201-202 are required. A reading knowledge of German or French is recommended.

Major students in chemistry should enroll for Mathematics 101 or 103, 120, and 106 in the freshman year and Mathematics 201-202 in the sophomore year. Physics 201-202 and German 101-102 should be taken during the sophomore and junior years.

100. *INTRODUCTION TO CHEMISTRY*. Introduction to the field of chemistry consisting of lectures, recitations and laboratory demonstrations. Course designed for students not anticipating further courses in chemistry or planning to major in science.

Summer session. Three hours. Offered upon demand.

101. *GENERAL CHEMISTRY*. General study of chemical principles and their application. Material studied largely from inorganic chemistry, with some material from organic and analytical chemistry. Lectures, recitations, demonstrations, and work in the laboratory.

This course and Chemistry 102 designed to furnish the basic knowledge of chemistry required by the professional courses such as engineering, medicine and dentistry. Mathematics 101 or 103, 120, and 106 desirable for students desiring advanced courses beyond Chemistry 102.

First semester. Five hours. Three lectures and two three hour laboratory periods.

102. *GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS*. Continuation of Chemistry 101 with additional emphasis on analytical chemistry. Laboratory work consisting of a study of the qualitative separation, identification, and reactions of both cations and anions.

Second semester. Five hours. Three lectures and two three-hour laboratory periods. Prerequisite: Chemistry 101.

201. *ADVANCED INORGANIC QUALITATIVE ANALYSIS*. Study of advanced inorganic chemistry and the theory and practice of qualitative analysis. Laboratory work consisting of the analysis of the common cations and anions, using the semimicro method.

First semester. Five hours. Three lectures and two laboratory periods. Two lectures and three laboratory periods during last half of semester. Prerequisites: Chemistry 101-102.

202. *QUANTITATIVE ANALYSIS*. Theory and practice of volumetric and gravimetric quantitative analysis and the more important physicochemical methods of analysis such as colorimetry and potentiometry.

Second semester. Five hours. Three lectures and two laboratory periods. Two lectures and three laboratory periods during the last half of the semester. Prerequisite: Chemistry 101-102 and Mathematics 101 or 103.

301-302. *ORGANIC CHEMISTRY*. Study of the essentials of aliphatic and aromatic organic chemistry. Coverage of important types of compounds with their preparation and significant reactions. Laboratory work involving study of the properties and the syntheses of organic compounds.

Each semester. Four or five hours. Three lectures and one or two laboratory periods. Prerequisite: Chemistry 101-102.

310-311 *ORGANIC PREPARATIONS*. Continuation of Chemistry 301-302. Making of organic preparations or qualitative organic analysis.

Either semester. One or two hours. One or two laboratory periods. Prerequisite: Chemistry 301. Offered upon demand.

320. *ADVANCED QUANTITATIVE ANALYSIS*. Continuation of Chemistry 202. Calibration of equipment and the analysis of such materials as limestone, brass, steel, and apatite.

Either semester. One or two hours. One or two laboratory periods. Prerequisite: Chemistry 202. Offered upon demand.

401-402. *PHYSICAL CHEMISTRY*. The usual course in physical chemistry with appropriate laboratory work.

Each semester. Five hours. Three lectures or conferences, and two laboratory periods. Prerequisites: Chemistry 202, Physics 201-202, and Mathematics 201-202. Physics majors may, with the consent of the instructor, enroll for four hours credit and omit one laboratory period.

410. *SPECIAL PROBLEMS*. Work on a library research problem terminating in a thesis or on a laboratory research problem including a written report, on the undergraduate level.

Either semester. Two or three hours. Prerequisite: Recommendation by the head of the department. Open to senior chemistry majors.

420. *INTEGRATING SURVEY*. A brief study of the literature and history of chemistry, together with a survey of the various fields of chemistry as a preparation for comprehensive examinations. Second semester. Two hours.

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 are required. 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 practical application. Instruction through discussion and demonstration with student participation. Liberal use of audio-visual aids.

Each semester. Three hours.

103. *PHOTOGRAPHY*. A study of the fundamentals and the techniques of photography designed to give a solid foundation for both the scientific worker and the amateur.

Three hours. Four lectures and two laboratories weekly during the nine-week summer session only.

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*. A study of the fundamentals of mechanics, heat, electricity and magnetism, sound, and light, designed to give appreciation of the scientific method and to give basic training for technical students.

Each semester. Five hours. Four lecture and discussion periods and one laboratory period. 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. (1953-1954)

403. *PHYSICAL OPTICS*. A study of the nature and properties of light. Work on the design of optical instruments.

First semester. Three hours. Two lectures and one laboratory period. Prerequisite: Physics 201-202. (1952-1953)

404. *ATOMIC PHYSICS*. An introduction to the theory of atomic structure, and a survey of recent developments in modern physics.

Second semester. Four hours. Three lectures and one laboratory period. Prerequisite: Physics 201-202 and Mathematics 201-202. (1952-1953)

405. *HEAT AND THERMODYNAMICS*. A study of the laws of heat and thermodynamics and their application to problems in physics, chemistry, and engineering.

First semester. Three hours. Prerequisite: Mathematics 201-202. On demand.

406. *MECHANICAL PHYSICS*. A treatment of statics and dynamics chiefly through the medium of problem solution.

Second semester. Four hours. Prerequisite: Mathematics 201-202. (1953-1954)

410. *SPECIAL PROBLEMS*. A study of special problems in physics, or of fields supplementary to curricular offerings, supervised through conference.

First or second semester. One to three hours. Prerequisite: Permission of the head of the department. Open only to physics majors in their senior year.

420. *INTEGRATING SURVEY*. 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 not having had this course in high school.

On demand. Three meetings weekly. No credit.

0. *ELEMENTARY ALGEBRA*. The equivalent of the first years 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. Consideration of the nature and significance of mathematics.

First semester; second semester on demand. Five hours. Prerequisites: One unit of plane geometry and one unit of elementary algebra, or the equivalent performance on the qualifying test.

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.

First semester; second semester on demand. Three hours. Prerequisites: One unit of plane geometry and one and one-half units of algebra, or the equivalent performance on the qualifying test.

120. *PLANE TRIGONOMETRY*. A study of the properties of the trigonometric functions and of the solution of triangles.

Either semester. Two hours. Prerequisite or corequisite: Mathematics 103.

106. *ANALYTIC GEOMETRY*. Fundamentals of plane analytic geometry with brief treatment of solid analytic geometry.

Second semester. Four hours. An extra period each week for those wanting 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.

First semester. Two hours. Six hours of supervised work each week.

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.

Second semester. Three hours. One lecture period and six hours of supervised work each week. 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. On demand.

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.

First semester. Two hours. Six hours of supervised work each week.

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

Second semester. Three hours. One hour of lecture and six hours of supervised work each week. 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. (1952-1953)

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. (1952-1953)

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. (1953-1954)

406. *ANALYTICAL MECHANICS*. Statics and dynamics, with the greater emphasis on statics chiefly through the medium of problem solution.

Second semester. Four hours. Prerequisite: Mathematics 201-202. Given with the class in Mechanical Physics. (1953-1954)

410. *SPECIAL PROBLEMS*. Special problems or study of supplementary fields in mathematics, supervised through conferences.

First or second semester. One to three hours. Prerequisite: Permission of the head of the department. Open only to mathematics majors in their senior year.

420. *INTEGRATING SURVEY*. Readings, lectures, and co-operative study of mathematical topics in order to attain a comprehensive view of the major field.

Second semester. One or two hours.

Division of Health, Physical Education, and Recreation

AIMS: To offer a health service by means of which the student can discover possible physical defects. To help the student understand and develop the organic system of the body so that he may live at the highest possible level. To provide a program of sports including physical education, intramural sports, and inter-collegiate sports for all students so that the individual may acquire skills and knowledges in a variety of sports resulting in active "carry over" activities and interests in adult life. To emphasize the place of physical well being and recreation in the Christian philosophy of life. To provide information and guidance to the student regarding his personal efficiency in physical activities. To require the student to fulfill a syllabus consisting of courses, readings, and controlled activities in order to test his proficiency in health, physical education, and recreation in the General Examination.

GENERAL EXAMINATION: Physical Education courses 110, 101, 102, 201, and 202 prepare for the General Examination.

REQUIREMENTS: A major is offered for those students who wish to teach in this field. A major consists of twenty-five hours in the department, and a minor consists of fifteen hours in the department.

The following courses in other departments are also required for a physical education major but are not counted as hours toward the major: Speech 101, 102; Biology 100, 201, 204; Psychology 200; Education 440.

Courses for Women

101-102. *FRESHMAN PHYSICAL EDUCATION FOR WOMEN*. Elementary work in sports, folk games, and swimming. Each semester. One hour. Required of all freshmen.

201-202. *SOPHOMORE PHYSICAL EDUCATION FOR WOMEN*. Advanced work in sports and folk games. Each semester. One hour. Required of all sophomores.

311-312. *TEACHING AND OFFICIATING OF WOMEN'S ATHLETICS*. History of sports for women. Principles of teaching and officiating. Major sports: field hockey, soccer, speedball,

volleyball, basketball, softball; minor sports: badminton, deck tennis, table tennis, handball, aerial darts.

Each semester. (1953-1954)

317-318-319. *TEACHING PARTICIPATION*. Training as physical education assistants in college classes. Intramural officiating.

Each semester. One hour each semester (maximum 3 credit hours) any time in junior or senior years. Prerequisite: Approval of head of department. Open to junior and senior physical education majors and minors.

Courses for Men

101-102. *FRESHMAN PHYSICAL EDUCATION FOR MEN*. Elementary work in exercises, games, gymnastics, and other activities.

Each semester. One hour. Required of all freshmen. Requirement filled during a sports season by participation in inter-collegiate athletics.

201-202. *SOPHOMORE PHYSICAL EDUCATION FOR MEN*. Advanced work in exercises, games, gymnastics, and other activities.

Each semester. One hour. Required of all sophomores. Requirement filled during a sport season by participation in inter-collegiate athletics.

211-212. *GYMNASTICS I AND II*. A course in marching, tumbling, balancing activities. Apparatus work on the horse, high bar, parallel bars, springboard, and work on the rings. Study of safety methods and devices. Teaching and coaching techniques.

Each semester. One hour. Two one-hour laboratory periods. Prerequisite for 212: 211. (1953-1954)

214. *MINOR SPORTS*. Practical work on fundamentals, rules, coaching methods and techniques of wrestling, boxing, tennis, golf, volleyball, handball, badminton, horseshoes, and soccer.

Second semester. Three hours. (1952-1953)

304. *CARE AND TREATMENT OF ATHLETIC INJURIES*. Study of the problems of coaches, physical education instructors, and playground supervisors. Pre-season conditioning, diet in athletics, massage, hydrotherapy, bandaging and taping, electrotherapy, prevention of athletic injuries, and the training room.

Second semester. Three hours. Prerequisite: Physical Education. (1953-1954)

315. *BASKETBALL THEORY*. A study of the fundamentals, rules, theories, and methods of coaching basketball.

First semester. Two hours. (1952-1953)

316. *FOOTBALL THEORY*. A study of the fundamentals, rules, theories, and methods of coaching football.

Second semester. Two hours. (1952-1953)

322. *TRACK THEORY*. A study of the fundamentals, rules, theories, and methods of coaching track.

Second semester. Two hours. (1952-1953)

310-311-312. *TEACHING PARTICIPATION*. Training as physical education assistants in college classes. Intramural officiating.

Each semester. One, two, or three hours any time in junior or senior years. Prerequisite: Approval of head of department. Open to junior and senior physical education majors and minors.

Courses for Men and Women

100. *HEALTH EDUCATION*. A study of personal hygiene and community health with a view toward favorably influencing habits, attitudes, and knowledge relating to individual and community health.

Second semester. Three hours.

110. *INTRODUCTION TO HEALTH, PHYSICAL EDUCATION, AND RECREATION*. A study of the important phases of health, physical education, and recreation. A survey of the history, objectives, principles, and philosophy of health, physical education, and recreation.

Each semester. One hour.

205. *RECREATIONAL LEADERSHIP*. A course designed to prepare leaders for recreational activities in the school, church, and community.

First semester. Three hours. (1952-1953)

206. *PLAYGROUND SUPERVISION*. Theory and administration of physical education for elementary grades. Practical application of games for school playgrounds.

Second semester. Three hours. Credit in either Physical Education or Education. (1952-1953)

213. *SWIMMING*. Skills, methods, and techniques for a supervisor in directing a swimming program.

First semester. One hour. Two one-hour laboratory periods.

316. *FIRST AID*. A course based upon the American Red Cross First Aid Textbook. Study of techniques for the immediate, temporary treatment given in case of accident or sudden illness before the arrival of a physician. Emphasis upon the prevention of accidents through the elimination of the causes of accidents. Standard and Advanced First Aid Certificates awarded upon the successful completion of the course.

Second semester. Two hours.

403. *ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION*. Presentation and discussion of the problems of the coach and physical education instructor in the administration of the program. Study of coordination of the work of physicians, school nurses, health teachers, physical educators, and athletic coaches in handling administrative problems of health, physical education, and recreation.

First semester. Three hours. Prerequisite: Physical Education 110 (1953-1954)

410. *SPECIAL PROBLEMS*. Opportunity for independent study within a special field.

Each semester. One to three hours. Prerequisite: Recommendation by head of department. Open to seniors.

420. *INTEGRATING SURVEY*. Preparation for comprehensive examination by review of all subject matter included in the physical education major.

Second semester. One to three hours.

Division of Mind, Personality, and Education

AIMS: To help the student understand the place of Christian education and psychology in life. To equip the student for effective participation in leadership in the community and schools. To develop proficiency in the field of education and psychology for those wishing to improve their teaching, or for those desiring certificates. To prepare students for additional professional study at the graduate level.

GENERAL EXAMINATION: Psychology 200 prepares students for the General Examination.

REQUIREMENTS: A major in Education and Psychology consists of twenty-nine to thirty-two semester hours.

Prospective degree *elementary school teachers* should meet the following requirements: (1) Complete a major in Education and Psychology which should include the following courses or their equivalents: Education courses 202, 205, 221, 222 or 441-442, 304, 308, 309, 403, 420; and Psychology courses 200, 204, and 301. (2) Complete forty-five 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), fifteen semester hours. (3) Elect at least fifteen 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.)

Prospective *secondary school teachers* who desire to major in Education and Psychology should meet the following requirements: (1) Complete a major in Education and Psychology which should include the following courses or their equivalents: Education courses 304, 305, 308, 309, 403, 420, 443-444; and Psychology courses 200, 204, and 301. (2) Complete forty-five 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), fifteen semester hours. (3) Elect a minimum of two minors from general fields commonly taught in the secondary schools. Each minor shall consist of a total of fifteen or more semester hours, at least six hours of which must be on the junior-senior level.

A minor in Education and Psychology consists of twenty-one semester hours.

The following courses are designed to meet the general professional requirements as stated in *The Certificate Handbook* of the State Board of Education: Education courses 304, 305, 308, 309, 403, and 443-444; Psychology courses 200, 204, and 301.

Prospective secondary school teachers who desire to meet the minimum professional requirements for certification should (1) Complete a minor in Education and Psychology as stated in the paragraph above. (2) Complete forty-five semester hours in gen-

eral 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), fifteen semester hours. (3) Complete a major of not to exceed forty semester hours in a subject commonly taught in secondary schools. (4) Complete a minor of at least fifteen semester hours in a subject commonly taught in secondary schools.

Education

100. *HEALTH EDUCATION*. (See description under Physical Education.)

Second semester. Three hours. Required for 60-hour certificate. Credit in either Education or Physical Education.

102. *MILITARY ORIENTATION*. A course to acquaint students with the customs of the different services of the United States Armed Forces. Military discipline, courtesy, ranks and their privileges, ceremonies, courtesies to the flag, schools open for enlisted men and officers, and programs available to college students. Conducted in a military manner.

Second semester. 1951. One hour.

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

Second semester. Three hours. Required for 60-hour certificate. Credit in either Education or Social Science.

105. *SCIENCE FOR THE ELEMENTARY SCHOOL*. (See description under Science.)

First semester. Three hours. Required for 60-hour certificate. Credit in either Education or Science.

107. *RURAL SCHOOL FIRST AID*. A course in accident prevention and practical first aid for rural teachers.

Summer session only. One hour. Credit in either Education or Physical Education.

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

Second semester. Two hours. Required for 60-hour certificate. Credit in either Education or English.

202. *METHODS OF TEACHING IN THE ELEMENTARY SCHOOL*. A study of teaching objectives, evaluating devices and techniques, and methods of measuring outcomes in elementary school teaching.

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

205. *ESSENTIALS OF READING*. A study of reading as a functional skill, of problems and materials related to the various levels of reading achievement, and of 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.)

Second semester. Three hours. Required for 60-hour certificate. Credit in either Education or Physical Education.

207. *ELEMENTARY SCHOOL ART*. (See description under Art.)

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 STUDENT TEACHING*. Observation and participation in rural elementary school work.

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

222. *OBSERVATION AND STUDENT TEACHING*. Directed observation and directed student teaching in the elementary schools.

Second semester. Three hours. Prerequisite: Education 220 or 221. Required for the 60-hour certificate.

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

Second semester. Three hours.

305. *METHODS OF TEACHING IN THE SECONDARY SCHOOL*. A study of teaching objectives, evaluating devices and techniques, and methods of measuring outcomes in secondary school teaching.

First semester. Three hours.

308. ***GUIDANCE IN THE SCHOOLS.*** A study of the nature and function of guidance, special techniques, devices, and practices in the field.

Second semester. Three hours. Prerequisite: Psychology 301.

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 Education and Psychology majors.

313. ***SECONDARY SCHOOL MUSIC.*** (See description under Music.)

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

400. ***SENIOR COUNSELING.*** Instruction in locating information relative to job vacancies, applying for positions, writing letters of application, participating in personal interviews, and making good after initial employment.

Each semester. One hour. Required of all seniors.

403. ***CURRICULUM PRINCIPLES AND PRACTICES.*** Study of curriculum philosophies and theories. Study of the growth of the curriculum and factors affecting curriculum development at the present time. An analysis of state and local organizations for curriculum development.

First semester. Three hours. Prerequisite: Six hours of Education, including Psychology 301.

410. ***SPECIAL PROBLEMS.*** An opportunity for qualified seniors to undertake research problems in special fields of their choice.

Each semester. One to three hours. Open to senior Education majors.

420. ***INTEGRATING SURVEY.*** Review in Education and Psychology as a preparation for comprehensive examinations.

Second semester. Two hours. Required of all senior majors in Education and Psychology.

441-442. ***STUDENT TEACHING IN THE ELEMENTARY SCHOOLS.*** A directed unit of observation and participation in the classroom integrated with a study of problems pertinent to the learning situation in the elementary school classroom.

Three or four hours. (Maximum of six semester hours.) Open to seniors and second semester juniors who meet requirements specified by the Department of Education.

443-444. ***STUDENT TEACHING IN THE SECONDARY SCHOOLS.*** A directed unit of observation and participation in the classroom integrated with a study of problems pertinent to the learning situation in the secondary school classroom.

Three or four hours. (Maximum of six semester hours.) Open to seniors and second semester juniors who meet requirements specified by the Department of Education.

Psychology

200. ***GENERAL PSYCHOLOGY.*** An introductory course to the general field of psychology, stressing the nature and function of personality. Analysis of personal limitations and proficiencies. Preparation for the General Examination.

Each semester. Three hours. Prerequisite for all courses in the department of Psychology. Not open to freshmen except with the consent of the head of the department.

202. ***MENTAL HYGIENE.*** Survey of the factors accounting for individual differences and application of the principles of mental health to personal welfare.

Second semester. Three hours. Prerequisite or corequisite: Psychology 200. (1953-1954)

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 corequisite: Psychology 200.

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

First semester. Three hours. Prerequisite or corequisite: Psychology 200. Required for the degree certificate.

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

Second semester. Three hours. Prerequisite or corequisite: Psychology 200. (1953-1954)

311. ***SOCIAL PSYCHOLOGY.*** Study of 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 to the effects of group membership.

First semester. Three hours. Prerequisite: Psychology 200. Credit in either Psychology or Sociology. (1953-1954)

Library Science

400. *LIBRARY SCIENCE I*. History, functions, materials, and techniques of school library work and administration. Lectures, demonstrations, and workshop. This course and Library Science II are designed to meet the minimum requirements for teacher-librarians.

Summer sessions. Four hours. Prerequisite: Senior standing or consent of instructor.

450. *LIBRARY SCIENCE II*. Continuation of Library Science I, with special emphasis on advanced problems in cataloging and book selection, together with considerable work on business procedures and records for the school library.

Summer sessions. Four hours. Prerequisite: Library Science I or consent of instructor.

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 every day living. To practice good citizenship and enlist support for good citizenship activities. To make clear the primacy of Christian ideals in all social endeavor.

GENERAL EXAMINATION: The general examination in the social sciences is based upon the social science syllabus. This syllabus is designed to cover certain essentials in History, Economics, Sociology, and Political Science. Preparation for the general examination can be made by doing the readings indicated on the syllabus, but students, *unless possessing great initiative and time*, are urged to enroll in American History 201-202, Principles of Sociology 201, and American Government 206.

DIVISIONAL MAJOR: Students may major in the division, with the consent of the head of the division, by taking a minimum of thirty-two hours in the division, fifteen of which are to be junior-

senior subjects and fifteen of which must be in one department, exclusive of the Integrating Survey. The department of the senior survey shall be determined by the head of the division after consultation with other department heads.

Geography

104. *PRINCIPLES OF GEOGRAPHY*. A study of geographic factors of the environment and of regionalism. Man's relationship to the environment in his use of natural resources relating to economic, political and cultural patterns of life.

Second semester. Three hours. Required for the 60-hour elementary teacher's certificate. Credit in either Social Science or Education.

History and Political Science

History

REQUIREMENTS: Twenty-four semester hours, exclusive of the Integrating Survey, are required for a major.

201-202. *AMERICAN HISTORY*. A course emphasizing the great movements in American history. A study of American civilization in its world setting, designed to give students broad perspectives in both the achievements and problems of American life. Chronologically, 201: To 1865; 202: From 1865.

Each semester. Three hours.

203. *HISTORY OF CIVILIZATION TO 1650*. A study of the highlights in the developments of various groups and periods from earliest times. Special attention to the contributions of the Greeks and Romans, the development of Christianity, the commercial revolution, and the rise and significance of nationalism.

First semester. Three hours.

204. *HISTORY OF CIVILIZATION AFTER 1650*. Survey of the major movements and trends in western civilization in modern times. An analysis of major political and economic revolutions. A study of the meaning and growth of the outstanding ideologies. A survey of world conflicts and 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 interpre-

tations; the role of the supreme court in American constitutionalism; political parties and the constitution; significant developments in constitutional law.

First semester. Three hours. Prerequisite: History 201-202. (1952-1953)

304. *HISTORY OF ECONOMIC THOUGHT*. (See description under Economics.)

306. *ECONOMIC HISTORY OF THE UNITED STATES*. A study of 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. Credit in either History or Economics. (1953-1954)

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

Second semester. Three hours. (1952-1953)

Political Science

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

Second semester. Three hours.

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

First semester. Three hours. (1953-1954)

305. *AMERICAN STATE GOVERNMENT AND ADMINISTRATION*. An examination of the traditional line of demarcation between federal and state authority; an analysis of the new role of the states in the development of the federal system. A study to show the importance of local government and administration. A practical investigation of the functions of local government.

First semester. Three hours. (1953-1954)

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

First semester. Three hours. (1952-1953)

406. *POLITICAL PHILOSOPHY AND THEORY*. An analysis of the great political ideas from earliest times to the present. A survey of the great literature in the field of political theory.

Second semester. Three hours. Prerequisite: Previous study in either philosophy or political science. Credit in either Political Science or Philosophy. (1952-1953)

410. *SPECIAL PROBLEMS*. Opportunity for qualified students to pursue independent studies in either history or political science. Considerable research in areas requiring practical experience and observation.

Either semester. One to three hours. Prerequisite: Recommendation of instructor.

420. *INTEGRATING SURVEY*. A course integrating the fields of history and political science to facilitate understanding of great movements and relationships.

Second semester. Two hours.

Business Administration and Economics

AIMS: To provide the student with a knowledge of the complex principles and institutions upon which a modern exchange economy is based. To provide basic tools and techniques for application to problems incurred in the business world.

REQUIREMENTS. Twenty-four semester hours, exclusive of the Integrating Survey, are required for a major.

A four year curriculum in Business and Economics is given on page 33. This program is recommended for students who hope to take advanced work in the field of business and economics. Students may, of course, major in economics without taking the complete curriculum as suggested.

103. *PRINCIPLES OF ACCOUNTING*. Development of accounting principles and basic theory, functions of accounting in business, the balance sheet, profit and loss statement, controlling accounts, special journals, adjusting, closing, and reversing entries. Practice set for a proprietorship.

First semester. Three hours.

104. *PRINCIPLES OF ACCOUNTING*. A continuation of Accounting 103 with emphasis on partnership and corporation accounting. Balance sheet valuations and managerial uses of financial statements.

Second semester. Three hours. Prerequisite: Accounting 103.

201-202. *PRINCIPLES AND PROBLEMS OF ECONOMICS*. An introduction to basic economic concepts, national income, economic fluctuations, pricing and composition of national output, distribution of income, and the productive factors. Application of the principles to current economic problems.

Each semester. Three hours.

205. *MODERN LABOR PROBLEMS*. Historical survey of the economic and social position of the wage earner, including 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. (1953-1954)

206. *PERSONNEL MANAGEMENT*. Human relations within the firm. A study of the functions of a comprehensive personnel program, including the duties of a personnel administrator.

Second semester. Three hours. Prerequisites: Economics 201-202.

251. *INTERMEDIATE ACCOUNTING*. Preparation of statements for corporate trading and manufacturing concerns, and a study of problems of valuation.

First semester. Three hours. Prerequisite: Accounting 104.

301. *MONEY AND BANKING*. A study of the history, theory and practice of money, banking, and credit as parts of the financial system and of the general economic organization.

First semester. Three hours. Prerequisites: Economics 201-202.

303. *INVESTMENTS*. The evaluation of securities through the analysis of financial and statistical data. The planning and management of investment programs. Functions and operations of investment banks, securities dealers, and stock markets.

First semester. Three hours. Prerequisites: Economics 201-202.

304. *HISTORY OF ECONOMIC THOUGHT*. A survey of the development of economic thought in the Western World. Particular emphasis on modern economic interpreters and their philosophical backgrounds.

Second semester. Three hours. Prerequisite: Economics 201 or 202. Credit in either Economics or History.

305. *INTRODUCTORY BUSINESS STATISTICS*. Designed to give the student an introduction into the purposes and functions of statistics in the modern business community. Graphic and tabular presentation of quantitative data, computation of descriptive measures, averages and index numbers, time series, and simple correlation.

First semester. Three hours. Prerequisite: High School Algebra.

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

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

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

Second semester. Three hours. Prerequisites: Economics 101-102. (1953-1954)

404. *COMPARATIVE ECONOMIC SYSTEMS*. A study of economic systems in the nature of a critical survey of the various patterns of institutional arrangements, past and present, developed by man in his continuous search for an effective economic system.

Second semester. Three hours. Prerequisites: Economics 201-202.

406. *BUSINESS CYCLES*. A study of the measurement, description, and major theories, of fluctuations in business activities of modern industrialized economies. A review and analysis is made of major efforts to eliminate cyclical movements and their social dislocation.

Second semester. Three hours. Prerequisites: Economics 201-202.

410. *SPECIAL PROBLEMS* (see page 59). Qualified students pursue independent studies in significant problems of economics or business administration. Major emphasis is on the development of individual initiative and responsibility.

Either semester. One to three hours. Prerequisites: Permission of instructor.

420. *INTEGRATING SURVEY*. A review, summarization, and integration of economic and business administration subjects in an effort to facilitate an understanding of their relationships.

Second semester. One to three hours. Seniors only.

Secretarial Science

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

Some courses in secretarial science are designed to meet the needs of special students who are not working for a degree. These offerings include courses in typewriting, shorthand, office practice, salesmanship, and accounting and other courses which definitely prepare the students for civil service, stenographic, and secretarial positions.

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

103-104. *PRINCIPLES OF ACCOUNTING*. (See description under Economics.)

Each semester. Three hours. Prerequisite to 104: 103.

110. *BEGINNING TYPING*. Emphasis on developing 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. Not credited toward a bachelor's degree.

130. *BEGINNING SHORTHAND*. A study of the new simplified Gregg shorthand using manual method of presentation, with dictation and speed practice during the last six weeks.

Either semester. Three hours. Not credited toward a bachelor's degree.

220. *ADVANCED TYPING*. Study of business letters and of business forms. Special emphasis on the development of speed through speed tests.

Second semester. Three hours. First semester on demand. Prerequisite: One semester of college typing, two years of high school typing, or equivalent.

250. *ADVANCED SHORTHAND TRANSCRIPTION*. Continuation of dictation and transcription to increase speed and accuracy in taking and transcribing shorthand. Intensive practice 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.)

First semester. Three hours. Prerequisite: Economics 104.

Sociology

REQUIREMENTS: A major in this department is composed of at least twenty-four hours selected from the courses listed below and must include Sociology 201-202, and 310. Students majoring

in sociology should plan to take considerable course work in other fields within the division, especially in economics.

201-202. *PRINCIPLES OF SOCIOLOGY*. An introduction to the study of culture and society. Analysis of factors that have contributed to social change. A brief study of social customs and major social institutions, individual and race differences, assimilation and other social processes.

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. (1952-1953)

303. *MINORITY GROUPS*. A study of racial, national, and religious minorities as cultural groups, especially in terms of their social-psychological significance. Analysis of such concepts as race, culture, nationality, class, minority, and identification. Analysis of public and student attitudes with the aim of minimizing prejudice.

First semester. Three hours. Prerequisite: Sociology 201-202. (1953-1954)

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

Second semester. Three hours. Prerequisite: Sociology 201-202. Credit in either Sociology or Religion. (1952-1953)

305. *RURAL SOCIOLOGY*. Rural society and culture, organization, and institutions. Special attention to rural social problems, to man-land adjustment, to the village, to the non-agricultural, small community, and to the problems and possibilities of rural schools and churches.

First semester. Three hours. Prerequisite: Sociology 201-202 or permission of instructor. (1952-1953)

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

Second semester. Two hours. Prerequisite: Sociology 201-202. (1953-1954)

307. *URBAN SOCIOLOGY*. Study of geographical setting, structural characteristic, functions, personality types, and pathologies of the modern city.

First semester. Two hours. Prerequisite: Sociology 201-202 or permission of instructor. (1953-1954)

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. Introduction to recent research in this field. Consideration of such problems as mate selection, divorce, eugenics, and living standards. Emphasis on the influence of religion and the Christian family ideal.

First semester. Three hours credit in either Sociology or Home Arts.

311. *SOCIAL PSYCHOLOGY*. (See description under Psychology.)

First semester. Three hours. Prerequisite: Psychology 200. Credit in either Sociology or Psychology.

402. *SOCIAL INSTITUTIONS*. An analysis of the structure and functions of the major social institutions of American life: family, religion, education, government, economics, welfare. Special emphasis upon those institutions related to the vocational choice of students enrolled.

Second semester. Two hours. Prerequisite: Sociology 201-202 or permission of instructor. (1952-1953)

406. *CRIMINOLOGY*. A general survey of the causes of crime and delinquency including physical and mental traits and social background. Correctional methods and their results. Courts, institutional care, parole, probation, and other forms of treatment. Preventive methods in social life.

Second semester. Three hours. Prerequisite: Sociology 201-202 or permission of instructor. (1952-1953)

410. *SPECIAL PROBLEMS*. Opportunity for qualified senior students to pursue independent study within a special field of their interest.

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

412. *INTRODUCTION TO SOCIAL WORK*. An introduction at the undergraduate level to the theory and practice of social work: case work, group work, and community organization. Emphasis on an understanding of the significance and techniques of professional social work in our society for students preparing for social work, teaching, the ministry, etc.

Second semester. Three hours. Prerequisite: Sociology 201-202. (1953-1954)

420. *INTEGRATING SURVEY*. An integrating survey designed to draw together the work in the separate courses, to give

the student a conception of the history and the progress made in the study of human relations, and to prepare majors for the comprehensive examinations.

Second semester. Two hours. Open only to seniors in this field.

Home Arts

AIMS: To meet the needs of those students who wish to prepare for efficient and intelligent homemaking, those who plan to teach, those who wish to enter social work, and those who wish to pursue graduate courses leading to technical or professional work. To assist the student in developing a philosophy for personal, family, and community adjustment. To help the student develop creative attitudes and to appreciate the aesthetics in daily life.

REQUIREMENTS: A major in the department consists of a minimum of twenty-four semester hours distributed among the various fields offered. A major in Home Arts is recommended for those considering dietetics, nursing, or research, and technical work in foods, nutrition, medicine, or textiles. Students majoring in this department ordinarily should take chemistry in the freshman year and zoology and physiology in the sophomore.

101. *SELECTION AND PREPARATION OF FOODS*. Study of the production, composition, preservation, and nutritive value of foods. Study of the cooking and preparing of carbohydrates and fats with emphasis on fruits and vegetables and on cereal cookery.

First semester. Three hours.

102. *MEAL PLANNING AND SERVING*. Study of marketing, meal planning and serving. A course devoted to proteins and principles of baking, with emphasis on milk, cheese, meats, batters and doughs, and pastries.

Second semester. Three hours. Prerequisite: 101 or permission of instructor.

110. *PERSONAL APPEARANCE*. Emphasis on aspects of good health standards, good grooming, correct dress, and social graces to give the student confidence in appearance and ability to meet social situations.

Either semester. Two hours.

201-202. *CLOTHING AND TEXTILES*. Study of textiles, selection of materials, principles and techniques of clothing construction, and commercial patterns. Hand and machine sewing. Clothing budget. Principles of design.

Each semester. Three hours.

203. *CHILD PSYCHOLOGY*. (See description under Psychology.)

Second semester. Three hours. Prerequisite or corequisite: Psychology 200.

205. *FOOD AND NUTRITION*. A study of common food materials, digestive processes, and the nutritional requirements for the normal individual of different ages and states of health.

First semester. Two hours.

206. *DIETETICS*. A study of food nutrients, digestion and metabolism. A survey of food requirements during normal infancy, childhood, adolescence, adult life, and old age. Consideration of dietary treatment of disease.

Second semester. Two or three hours. Prerequisite: 205, Biology 201 or 204, and Chemistry 101.

301. *HOME ARCHITECTURE AND DECORATION*. Study of the principles of design applying to the house, its arrangement and furnishings. Study of house planning and problems.

First semester. Three hours. (1952-1953)

302. *CHILD CARE AND TRAINING*. Study of child development and home care. Study of social, intellectual, and emotional development and of training of pre-school age children. Emphasis on the pre-natal and early months of development, including the physical, mental, and emotional aspects. Systematic observation of behavior of parent-child, child-child, and teacher-child relationships. Observation in kindergarten schools.

Second semester. Three hours. (1952-1953)

304. *ADVANCED CLOTHING*. Detailed study of the processes in the construction of clothing. Figure difficulties and their treatment. Tailoring and handmade decorations.

Second semester. Three hours. Prerequisite: 201-202 or permission of instructor.

305. *ADVANCED FOODS*. A course designed to familiarize the student with the more complicated processes of cookery. Study of experimental methods in laboratory. Review of recent literature in the field.

First semester on demand. Three hours. Prerequisite: 101-102 and Chemistry 101.

306. *QUANTITY COOKERY*. A course designed to furnish training in preparation of food in quantity, of menu-making, of food service to groups, and of large quantity purchasing. Use of college commons dining room as a laboratory.

Second semester on demand. Three hours. Prerequisite: 101-102, 206, and 305.

310. *THE FAMILY*. (See description under Sociology.)
First semester. Three hours.

401. *HOUSEHOLD MANAGEMENT*. A detailed study of the home and family as an economic and social unit and of family income, household activities, and equipment. Administration of the household, including the organization of work activities.

First semester. Two or three hours. (1953-1954)

402. *CONSUMER EDUCATION FOR FAMILY BUYING*. A study of the problems facing the consumer in the present day market. Emphasis on the intelligent buying of food, clothing, home furnishings, and personal necessities of the family.

Second semester. Two hours. (1953-1954)

403. *PROBLEMS IN HOME ARTS*. Study of methods of teaching in secondary schools and of text books and reference and illustrative materials.

First semester on demand. Three hours. For majors only.

420. *INTEGRATING SURVEY*. Preparation for comprehensive examination by review of all subject matter included in the home arts major.

Second semester. Two hours.

Division of Language and Literature

AIMS: To provide basic training in the art of expression, written and oral. To promote an understanding and appreciation of the student's cultural heritage as expressed in the varied literature of Europe and America.

GENERAL EXAMINATION: Freshman English 101-102 (or 103-104) prepares students for the general examination.

DIVISIONAL MAJOR: To encourage a wider selection of subjects, the departments concerned provide for a divisional major with a minimum of thirty semester hours. The student should complete eighteen 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. Two years of one foreign language in college, or its equivalent, are required; this requirement may be met by examination.

English

REQUIREMENTS: Twenty-four hours above the freshman level are required for a major and should include the following: English 207-208, 321-322, one period study, one course in types of literature, one course in major authors, and the Integrating Survey. Two years of one foreign language in college, or its equivalent, are required; this requirement may be met by examination.

00. *ENGLISH REVIEW.* A requirement for students, upon failure in entrance tests or upon the recommendation of divisional head or counselor. A review of spelling, punctuation, grammar, and syntax for students showing marked deficiency in any of these fundamentals.

First semester. Two meetings weekly. No credit.

Second semester. Two meetings weekly. No credit.

101-102. *FRESHMAN ENGLISH.* A study of literary backgrounds and the art of writing. Introduction to the great literary traditions of the humanities and also a thorough review of fundamentals of expression.

Each semester. Three hours.

103-104. *ADVANCED FRESHMAN ENGLISH.* A course open to students showing proficiency in reading and in their knowledge of the fundamentals of English. More extensive readings in the great literary traditions of the humanities than in courses 101-102. Emphasis on both oral and written composition.

Each semester. Three hours.

106. *IMPROVEMENT IN READING.* Testing of intellectual capacity and of reading level. Analysis of individual weaknesses and strong points in reading. Laboratory type practice on various reading skills—skimming, reading for facts, interpreting, organizing ideas, speeded reading, building vocabulary. Use of reading accelerator to increase reading speed. Evaluation of progress by standard tests.

Second semester. One hour. Two meetings weekly.

112. *CHILDREN'S LITERATURE.* 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.

Second semester. Two hours. Requirement for 60-hour certificate. Not credited on minimum requirements for major. Credit in either English or Education.

207-208. *INTRODUCTION TO ENGLISH LITERATURE.* An introduction to the poetry and prose of English literature with

emphasis on preparation for a detailed study of literary periods. Emphasis on use of sources. Reports and papers.

Each semester. Three hours. Requirement for all English majors.

211-212. *ENGLISH COMPOSITION.* A study of the various forms of expression. Emphasis on effective expression in practical situations.

Each semester. Three hours. Requirement for sophomores whose freshman work indicates need for continued emphasis on composition.

305. *THE NOVEL IN ENGLISH.* The novel as a type of literature with a variety of forms and purposes, from 1740 to 1900. Reading of several novels 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. (1952-1953)

306. *ENGLISH LANGUAGE.* Origin and function of language. Ancestry, growth, and structure of the English language. Study of present vocabulary and usage, standards of correctness, lexicons, linguistic reforms. Individual student reports.

Second semester. Two hours. (1952-1953)

311. *CREATIVE WRITING.* A study of several literary forms. Writing of essays, short stories, articles, and poems. Attention to individual interests through weekly projects.

First semester. Two or three hours. (1952-1953)

313. *SEVENTEENTH CENTURY LITERATURE.* 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. Study of Restoration Period, Dryden, and memoir writers.

First semester. Three hours. Prerequisite: English 207-208 or permission of instructor. (1952-1953)

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

Second semester. Two hours. Prerequisite: English 207-208 or permission of instructor. (1952-1953)

315-316. *HISTORY OF DRAMA.* First semester, the history and development of drama from the Greeks to Shakespeare. Second semester, drama from Shakespeare to the present.

Each semester. Three hours. Requirement for all drama majors. Credit in either English or Drama. (1953-1954)

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 of other poets and related prose.

First semester. Three hours. Prerequisite: English 207-208. (1953-1954)

318. *VICTORIAN LITERATURE*. A period study of the chief literary trends in English from 1832 to 1900. Study of poets and prose writers through selections and outside reading. Seminar discussions and reports.

Second semester. Three hours. Prerequisite: English 207-208. (1953-1954)

321-322. *AMERICAN LITERATURE*. Primarily a study of representative writers from the Colonial period to the present, with an introduction to types of literature and literary movements. Relation of literature to other divisions of the college curriculum.

Each semester. Three hours.

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. Prerequisite: English 207-208 or permission of instructor.

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

First semester. Three hours. Prerequisite: English 207-208. (1952-1953)

408. *AMERICAN WRITERS SEMINAR*. Detailed study of selected American writers. Written and oral reports together with class discussions.

Second semester. Two or three hours. Prerequisite: English 321-322.

409. *CONTEMPORARY LITERATURE*. A careful study of contemporary prose and verse, with special emphasis on the writings of Thomas Wolfe, Willa Cather, Virginia Woolf, Ernest Hemingway, T. S. Eliot, William Faulkner, and others.

First semester. Three hours. (1953-1954)

410. *SPECIAL PROBLEMS*. Opportunity for qualified students to pursue independent study within a special field.

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

411-412. *SHAKESPEARE AND THE ELIZABETHAN DRAMA*. Reading and discussion of the comedies, tragedies, and historical plays in chronological order. An appreciation of modern interpretations of the characters and scenes. Supplementary readings in the social and historical background of the period. Collateral reading in the minor Elizabethan playwrights.

Each semester. Three hours. Credit in either English or Drama.

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. Study of the relation of literature to religion and to the social, economic, and political movements.

Each semester. Three hours.

420. *INTEGRATING SURVEY*. A review of English and American literature. Extensive reading of authors not covered in course work. Discussions and lectures.

Second semester. Two hours. Required of all majors, and may be elected by other properly qualified seniors.

Speech and Drama

REQUIREMENTS: A major in the department must include the following: Speech 101, Drama 208, and Speech or Drama 420. Majors should consult the department head regarding courses as soon as they make a choice of their major.

Recommended related fields for speech majors are English, Social Science, Business Administration, Fine Arts, Music, Psychology, and Physical Education. Other related fields will be approved if the student's plans require. Majors should consult the instructors concerning their plans. Specific suggestions will be made as to recommended courses. A course in Shakespeare is always recommended. Students contemplating graduate work in speech should take courses in French or German, or both. Vocational opportunities for speech majors include teaching speech, radio broadcasting, speech correction, personnel work, public forum work, salesmanship positions. Speech training is also a great asset to teachers, ministers, lawyers, YMCA and YWCA and church workers, and in many vocations where public appearance is required.

Speech

101. *FUNDAMENTALS OF SPEECH*. Emphasis on developing confidence, poise, directness, and conversational style in speech through proper use of voice and body in presenting ideas. Special stress on composition and delivery. Analysis and study of voice through recordings.

First semester. Two hours.

102. *PUBLIC SPEAKING*. Stress on platform speaking and various other formal types of delivery. A course especially designed for those who will speak professionally or vocationally.

Second semester. Two hours. Prerequisite: Speech 101.

103. *ARGUMENTATION AND DEBATE*. A course recommended for all students wishing to participate in intercollegiate debate. Study of argumentation and debating technique with special emphasis on reasoning and research. Practice on intercollegiate debate questions.

First semester. Three hours.

200. *A, B, C. ELEMENTARY APPLIED DEBATE*. Concentrated study and practice on the national debate question. Some participation in intercollegiate debating.

Each semester. One hour. Prerequisite: Permission of instructor.

205. *INTRODUCTION TO RADIO BROADCASTING*. An introductory course in microphone technique, sound effects, announcing, program planning, radio drama, and radio speech. Consideration of the social, educational, and economic aspects of radio and television.

First semester. Two hours. Prerequisite: Permission of instructor.

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-FM and commercial stations.

Second Semester. Three hours. Prerequisite: Speech 205.

300. *A, B, C, D. ADVANCED APPLIED DEBATE*. Continuation of Speech 200.

Each semester. One hour.

301. *SPEECH CORRECTION*. A study of defective speech. Causes and corrective procedures for minor difficulties.

Full semester. Two hours.

302. *DISORDERS OF ARTICULATION*. A continuation of Speech 301. Investigation of more serious speech and hearing disorders, both functional and organic. Opportunities for clinical observation and practice. A course of special value to majors in speech, education, and psychology and to those entering the ministry or other counseling fields.

Second semester. Three hours. Prerequisite: Speech 301.

404. *SPEAKING SITUATIONS*. Laboratory course providing practice in extemporaneous and impromptu speaking, discussion, introductions, parliamentary procedure, interviewing, and presiding. Opportunity for participation in intercollegiate speaking contests. Flexible arrangement of material to serve the needs of the current class.

Second 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. *INTEGRATING SURVEY*. Integration of all work in the field of Speech and Drama. Preparation for comprehensive examination.

Either semester. One to three hours.

Drama

208. *ORAL INTERPRETATION*. Study of technique of oral interpretation with abundant practice in oral interpretation of the Scriptures and selected poetry and prose. Opportunities for public appearance.

Second semester. Two hours. Required of all speech majors.

315-316. *HISTORY OF DRAMA*. (See description under English.)

Each semester. Three hours. Requirement for all drama majors. Credit in either Drama or English. (1953-1954)

402. *TECHNICAL THEATRE ASSISTANCE*. Study of all phases of play production. Acting, directing, stagecraft, lighting, make-up, and business management. Required work on Saturdays and evenings during six weeks period of production of all-college play.

One hour. Prerequisite: Consent of instructor. (Credit only for work on presentation of a college play.)

410. *SPECIAL PROBLEMS*. (See description under Speech.)

411-412. *SHAKESPEARE*. (See description under English.)

Each semester. Three hours. Required of all drama majors. Credit in either English or Drama.

420. *INTEGRATING SURVEY*. (See description under Speech.)

Foreign Languages and Literature

REQUIREMENTS: A major in Spanish is offered, twenty-four hours beyond Spanish 101 or its high school equivalent, twelve or more hours of which must be taken in courses numbered 300 and 400. Courses 301-302, 303-304, 305-306 form rotating groups of which a different one will be given each year, thus fulfilling a major. Course 401 is recommended and course 420 is required of majors for the comprehensive examination.

A combination major may be taken in Spanish and French, twenty-four hours of one language and sixteen of the other, twelve hours of which must be in courses numbered 300 and 400. Course 420 is required for the comprehensive examination.

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

Generous use is made of records, tape and wire recordings, and visual aids in the elementary courses.

Spanish

101-102. *ELEMENTARY SPANISH*. Presentation of the fundamentals of grammar stressing pronunciation, vocabulary building, and a foundation for reading and speaking.

Each semester. Five hours. Prerequisite for 102: 101 or one unit of high school Spanish.

201. *INTERMEDIATE SPANISH*. Study of 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.

202. *INTERMEDIATE SPANISH* (continued). Study of dramas, novels, poetry of the eighteenth, nineteenth, and twentieth centuries. Collateral reading. Conversation.

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

*301. *SURVEY OF SPANISH LITERATURE*. Study of 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*. Study of 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.

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

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

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

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

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

Second semester. Two or three hours. Prerequisite: Spanish 202 or equivalent. (1952-1953)

307. *CONTEMPORARY SPANISH LITERATURE*. Study of 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. (1953-1954)

401. *ADVANCED SPANISH GRAMMAR AND CONSERVATION*. Review of grammar laboratory course in the Spanish language.

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

First semester. One to three hours depending on the need for such a course. Prerequisite: Spanish 202 or equivalent. Open to all and advised for majors.

402. *TRAVELING SEMINAR*. A course for students who plan to travel to Mexico or Latin America.

Second semester. Two hours. Prerequisite: 202 or equivalent. (1951-1952)

420. *INTEGRATING SURVEY*. Preparation for comprehensive examinations. Program of readings, discussion, and reports. Second semester. One or two hours. Chiefly for majors.

French

101. *ELEMENTARY FRENCH*. Presentation of fundamentals of French grammar. Pronunciation. Vocabulary building. Simple composition.

First semester. Five hours. (1953-1954)

102. *ELEMENTARY FRENCH*. Continuation of grammar. 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. (1953-1954)

201. *INTERMEDIATE FRENCH*. A review of grammar, composition, and conversation. Reading of French novels, dramas, biographies, and essays. Collateral reading. Study of French civilization.

First semester. Two or three hours. Prerequisite: French 102 or two units of high school French. (1952-1953)

202. *INTERMEDIATE FRENCH*. Emphasis on reading and speaking knowledge. Study of French civilization. Study of works of leading French authors and of characteristics of period. Collateral reading.

Second semester. Two or three hours. Prerequisite: French 201 or equivalent. (1952-1953)

German

101. *ELEMENTARY GERMAN*. Presentation of elements of grammar. Pronunciation. Vocabulary building. Simple composition and conversation.

First semester. Five hours. (1952-1953)

102. *ELEMENTARY GERMAN*. Continuation of the study of grammar. Oral and written composition and conversation. Emphasis on reading.

Second semester. Five hours. Prerequisite: German 101 or one unit of high school German. (1952-1953)

201. *INTERMEDIATE GERMAN*. Review of grammar. Oral and written composition. Introduction to German literature. Knowledge of the German people. Collateral reading.

First semester. Two or three hours. Prerequisite: German 102 or two units of high school German, or equivalent. (1953-1954)

202. *INTERMEDIATE GERMAN*. Conversation. Composition. Collateral reading. Reading of selected works representative of the most important writers of prose and poetry.

Second semester. Two or three hours. Prerequisite: German 201 or its equivalent. (1953-1954)

Division of Fine Arts

AIMS: To promote an understanding and appreciation of the fine arts. To train individual students in the skills and accomplishments of specific arts.

GENERAL EXAMINATION: The General Examination in this division tests the student's knowledge and appreciation of the fine arts. Courses 101-102 prepare for this examination.

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, printing, ceramics, and design. Illustrated lectures, art exhibits, the artist concert series, and a guided tour through the William Rockhill Nelson Art Gallery in Kansas City. Preparation for general education examination.

Each semester. One hour.

207. *ELEMENTARY SCHOOL ART*. A course designed to give teachers and prospective teachers an insight into the teaching of art. The course will cover present-day educational methods as they might be applied in art, and use of art materials such as paper, water colors, clay, waxing, papier mache, finger painting and textile painting. Work in leather craft or silver craft also if desired.

Second semester. Three hours. Requirement for 60-hours certificate. Recommended for the degree elementary certificate.

Music

REQUIREMENTS: The Music Department offers a major in music for the Bachelor of Arts degree for those who desire a broad general culture with music as a leading interest, 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, violin, or orchestral instruments.

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

Harmony 107-108	6 hours
Harmony 201-202	4 hours
Music History and Literature 301-302	6 hours
Form and Analysis 303-304	4 hours
Conducting 311-312	4 hours
Applied Music (exclusive of any organization activity)	4 hours
Man and the Arts	2 hours

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, and 313 among their electives, besides meeting the general state requirements.

Credit is granted for work in applied music on the basis of one hour for sixteen 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. Private lessons are of one-half hour duration. Lessons missed by the student and lessons falling on a school holiday will not be made up.

All students entering first year music theory courses must take an entrance examination in the fundamentals of music. All music majors must be able to play simple accompaniments on the piano. The courses in applied music listed below may be varied according to the needs of the individual student. Elementary courses in piano, violin, and voice are available; however, 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.

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.

Applied Music

Organ

231-232-233-234. 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, Guilman, and other old and modern masters.

Prerequisite: Piano 124.

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

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

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.

221-222-223-224. Bach, *Three-Part Inventions and Suites*; Pischna, *Technical Exercises*; Jensen, *Op. 32*; MacDowell, *Op. 39*; Haberbier, *Etudes Poesis, Op. 53*; Preyer, *Op. 30 and Op. 45*; Hollander, *Intermezzi for Left Hand*; Kullak, *Octave Studies, Section 2*; Sonatas of Beethoven and selections of Chopin. Prerequisite: 124.

321-322-323-324. 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-Saens and others.

Prerequisite: 224.

421-422-423-424. Joseffy, School of Advanced Piano Playing; Philipp, Etudes for the Left hand; Rubenstein, Op. 23; Chopin Etudes; Sonatas and Concertos of Beethoven, Weber, Grieg, MacDowell and others.

Prerequisite: 324.

Violin

141-142-143-144. Studies selected from the following: Kreutzer Etudes, Sevcik Preparatory Double Stops, Hrimaly scale and arpeggio studies; Sonatas by Handel, Corelli, Nardini; concertos by Rode, Saint-Saens, Viotti, etc; selected solos from classical literature.

241-242-243-244. Rode Caprices; Dont Opus 35; advanced scale studies; concertos by Mendelssohn, Bruch, Mozart, Bach, etc; sonatas by Beethoven, Mozart, Grieg; solos from modern and classical literature.

Prerequisite: 144.

341-342-343-344. Gavinies studies, Schradieck scale studies; concertos by Wieniawski, Mozart, Saint-Saens, etc; Sonatas by Mozart, Grieg, Tartini, Beethoven; solos from modern and classical literature.

Prerequisite: 244.

441-442-443-444. Bach Solo Sonatas; Paganini caprices; concertos by Lalo, Tschaikowsky, Beethoven, Brahms; concert solos from Sarasate, Wieniawski, Vieuxtemps, selected modern composers. Senior recital.

Prerequisite: 344.

Voice

151-152-153-154. 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.

Prerequisite: The ability to read music.

251-252-253-254. Voice development. Poising of the voice, development of tone and breath control, exercises for flexibility. Lutgen, Concone, Marchesi, English and Italian songs. Oratorio and church solos.

Prerequisite: 154.

351-352-353-354. Tone color and flexibility. Selected exercises and Italian and French songs. German Lieder.

Prerequisite: 254.

451-452-453-454. Style and interpretation. Finishing exercises from masterpieces of vocalization. Stage deportment, modern songs, opera, and oratorio airs.

Prerequisite: 354.

Theory

101. *FUNDAMENTALS OF MUSIC*. A basic course in the rudiments of music to be taken as a prerequisite or corequisite for the practical music courses. For students having no 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 Harmony 107-108 to encourage the student to read, hear, and write music from the melodic as well as the harmonic standpoint. Singing of exercises 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. A general survey course for majors in other departments.

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. Study of modulation and seventh chords and their inversions. Provisions for originality in the composition of two and three-part song forms.

Each semester. Three hours.

161-162. *METHODS OF TEACHING STRING INSTRUMENTS*. A course for public school music majors to provide a playing knowledge of most of the technical devices used in the play-

ing of string instruments, including all types of bowing, shifting, all positions, double stops, and the vibrato.

Each semester. One hour.

164. *METHODS OF TEACHING BRASS AND WOODWIND INSTRUMENTS*. Study of the problems of fingering and tone production in the playing of the brass and woodwind instruments for public school music majors. Treatment of the percussion instruments.

Second semester. One hour.

201-202. *ADVANCED HARMONY*. A continuation of Harmony 107-108, covering secondary seventh chords, chords of the ninth, chromatic alterations and embellishments.

Each semester. Two hours. Prerequisite: Music 108.

211-212. *ELEMENTARY SCHOOL MUSIC*. Study of materials and modern methods of grade school music. Selection and presentation of rote songs. Syllables. Rhythm plays and games. Toy orchestra. Problems of staff notation. Study of child voice. Part singing.

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

301-302. *MUSIC HISTORY AND LITERATURE*. Presentation of the chronological development of music and a critical analysis of representative works. Music of the ancient nations. Music of the Renaissance and Reformation periods. Origins of opera and oratorio. Rise of instrumental music. Classic school development of the sonata. The romantic school. Modern music and trends.

Each semester. Three hours.

303-304. *FORM AND ANALYSIS*. An exploration of all the formal designs and methods of structural treatment in the homophonic domain of musical composition. The phrase melody and accompanying parts. Cadence conditions. Period and double period. Repetition, reproduction, and modifications. Song forms. Dance forms. Classic suite. Etude. Lyric piece. Variations. Transcriptions. The Rondo. Sonata and kindred forms.

Each semester. Two hours. Prerequisite: 202.

305-306. *COUNTERPOINT*. A course in the melodic and polyphonic elements of music, 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.

311. *CHORAL CONDUCTING*. Study of attitudes and techniques of choral conducting. Projects and practice in organizing, rehearsing, and conducting performance. Arranging of vocal music. Example music of the major choral schools, oratorios, and anthems.

First semester. Two hours. Prerequisite: The ability to read music in part-singing. Recommended for students interested in church and choral music. (1953-1954)

312. *CONDUCTING AND ORCHESTRATION*. A study of technique of conducting, score reading, and arranging music for instrumental organization.

Second semester. Two hours. Prerequisite: Music 108. (1953-1954)

313. *SECONDARY SCHOOL MUSIC METHODS*. Music, material and methods for the junior and senior high schools. Voice problems, testing, and classification. Study of glee clubs, choruses, orchestra, and band. Operetta and cantata. Song interpretation. Fundamentals of conducting.

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

316. *CHURCH AND CHORAL MUSIC*. Presentation of 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.

Ensemble

Not more than six 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 semester.

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 of an ensemble nature. Concerts are given in Ottawa and elsewhere. One hour credit per semester.

THE UNIVERSITY BAND is a concert and marching organization which takes an active part in the athletic events of the University and appears in concerts and celebrations in Ottawa and elsewhere during the year. One hour credit 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 in the music classes 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

AIMS: 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.

GENERAL EXAMINATION: The courses which prepare the student for the General Examination in this division are Religion 103-104 at the freshman-sophomore level or Philosophy 307 and Philosophy 404 at the junior-senior level.

Religion

103. *BIBLE: NEW TESTAMENT LIFE AND LITERATURE.* A study of the life of Jesus and of Paul, and the growth of the Christian Church during the Apostolic period. The literature and teachings

of the New Testament in the light of the historical situation. The authority of the New Testament for faith and practice.

First semester. Three hours.

104. *RELIGION IN LIFE.* The effect of the modern mood upon the student. A study of the live options claiming the faith of the present day American student. A brief historical analysis of the answers given by philosophy and religion to man's central questions. An introduction to the Christian world view. The Christian faith as the answer to man's spiritual problem.

Second semester. Three hours.

201. *BIBLE: OLD TESTAMENT LIFE AND LITERATURE.* A study of the history of the Hebrew nation. The content and teachings of the Old Testament in the light of the historical situation. The content of the prophetic literature in its relation to the Christian tradition.

First semester. Three hours.

205. *BAPTISTS: THEIR HISTORIC FAITH AND PRACTICE.* The faith and practice of Baptists, and their contribution to the world fellowship of Christians, as well as to the democratic ideal of religion.

First semester. Two hours.

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. (1952-1953)

308. *PRACTICUM IN RELIGION.* A study of methods and materials which can be used in serving in a local church. Includes an analysis of the techniques of youth and adult evangelism, leadership education, Church school work and Daily Vacation Church School.

Second semester. Two hours.

309. *CHURCH LEADERSHIP.* A study of the nature and mission of the New Testament Church as it relates to the modern church, and an analysis of the conception of leadership in this Church. The role of lay leadership in the local Church and in the world fellowship of Christians. The pioneering lay movements within the various Protestant denominations.

First semester. Three hours.

405. *SURVEY OF CHURCH HISTORY.* A study of the spread and influence of Christianity from the Apostolic period through the modern missionary movement. Particular emphasis given to the Church Fathers, the Medieval period, the Protestant Reformation, and the growth of the Ecumenical movement.

First semester. Three hours. Recommended prerequisites: Religion 103 and 201.

408. *TEACHINGS OF CHRISTIANITY.* A survey of Christian Theology and the important doctrines of the Christian faith. Principles of interpretation. Application of religious thought to modern personal and social problems.

Second semester. Three hours. Recommended Prerequisite: Religion 401.

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 the various schools of thought such as naturalism, idealism, pragmatism, realism, intuitionism, and personalism.

First semester. Three hours.

402. *THE PHILOSOPHY OF RELIGION.* A comprehensive view of the meaning and significance of religion. Religious experience considered from the social, psychological, mystical, and philosophical points of view. Presentation of the development of religion in the modern world.

Second semester. Three hours. Recommended prerequisites: Philosophy 307, Psychology 200. (1951-1952)

404. *CHRISTIAN ETHICS.* A survey of the chief types of ethical theories. Fundamental problems of conduct. Principles of Christian character. Review of current personal, political, and social problems in the light of ethical theory.

Second semester. Three hours. Recommended prerequisites: Philosophy 307, Religion 102 or 304. (1952-1953)

406. *POLITICAL PHILOSOPHY AND THEORY.* (See description under Political Science.)

Second semester. Three hours. Credit in either Philosophy or Political Science.

APPENDIX

Honors 1950-1951

CLASS HONORS

SENIORS

Gertrude V. Brox — 12 hours
Betty Lou Klein — 10 hours
Isaac Namioka — 12 hours
Margie Willhite — 12 hours

JUNIORS

Jat Kule — 11 hours
Jean Anne Walker — 17 hours

FRESHMEN

Shirley Finch — 13 hours

SIGMA ALPHA HONORS SOCIETY

Lynn Cobb

Jean Anne Walker

Betty Lou Klein

Mary Wismer

Mary Schowengerdt

ASSOCIATES

Gertrude V. Brox
Clarence Craig
Alice Jo Hostetter
Isaac Namioka
Margie Willhite

Aladine Angell
Ronald Dailey
Shirley Finch
Colleen Francis

Pearl Fruehan
Pat Kule
Wilma McCowen
Ruth Schreiner

GRADUATION HONORS

Lynn Cobb

COMPREHENSIVE EXAMINATIONS PASSED WITH DISTINCTION

BIOLOGY

Frances Elizabeth Graves
John Henry Willis Keithley
Jess W. Koons
Margie Willhite

CHEMISTRY

R. Lynn Cobb

EDUCATION-PSYCHOLOGY

Mary Louise Harris

ENGLISH

John Daniel Blythe
Geraldine Frazzini
Betty Lou Klein
Margaret Ann Pflug
Juanita Oyer Spindler

HISTORY-POLITICAL SCIENCE

Alice Jo Hostetter

MATHEMATICS

Isaac Namioka

MUSIC

Lois Jeanne Dick Hawley
Donna Beth Noren
Ramona Lee Schierbaum Printz

PHYSICAL EDUCATION

Orville Holly Gilkison, Jr.
Jane Ellen Hetzer
Everette E. Viets
Robert Watkins

SOCIOLOGY

Betty Joyce Brown
Ira Gordon Ferguson

SPEECH-DRAMA

Clyde Lee Rousey

Degrees 1951

BACHELOR OF MUSIC EDUCATION

Ramona Lee Schierbaum Printz

BACHELOR OF SCIENCE

Robert E. Allen
Loren S. Brooks, Jr.
R. Lynn Cobb

Clarence D. Craig
Donald N. Emery
Joseph Henry Feiler

Lola Mae Blecha Lans
Leon Bryce Paine
Robert Kimball Stevenson

BACHELOR OF ARTS

John Daniel Blythe
Sam J. Blythe, Jr.
George William Bones
Donald B. Brady
Betty Joyce Brown
Gertrude V. Brox
Margaret E. Carey
Mabel Ruth Christy
Darold R. Claassen
Robert C. Clark
Claron G. Cole
John M. Crooks
Richard Lee Culbertson
Herschell E. Daney
Jack Donald Day
James E. Douglas
John Emsley Douglass
LeRoy Dumas
Dean Ecklund
John H. Evans
Herman Ward Faulkner
Ira Gordon Ferguson
Geraldine Frazzini
Bob Dwain Fronterhouse
Kenneth Carroll Garner
Robert W. Gilbert
Orville Holly Gilkison, Jr.
Twila Marie Goldsmith
Frances Elizabeth Graves

Robert Burdette Hamilton
Mary Louise Harris
Clyde Earl Hashhagen
Lois Jeanne Dick Hawley
Alice Joan Haynes
Jane Ellen Hetzer
Eva Letha Hildebrand
John Lane Hodges
Alice Jo Hostetter
William H. Howe
Thomas E. Ingle
Dale F. Kamrath
John Henry Willis Keithley
William F. Keller
Richard Vaughn Kimbrough
Betty Lou Klein
Jess W. Koons
Tom J. Lewis
Robert B. Livingston
Samuel Warner Lyman III
Beverly Ann McDaniel
Paul K. McFarland
Jerome Austin Mattox
Barbara Lee Mickle
Harold Wayne Monroe
Grant Wesley Morse
Isaac Namioka
Henry Joel Nordeen, Jr.
Donna Beth Noren

Howard Roy O'Neal
Robert Lawrence Palmer
Eloise Janet Palmquist
Charles Richard Patterson, Jr.
Margaret Ann Pflug
Kenneth W. Phibbs
Leon A. Prentice
Lloyd Glenn Printz
Homer E. Robbins
Joan Robinson
Clyde Lee Rousey
Bobby W. Rush
Donald D. Shoemaker
Harley Ray Sowell
Juanita Oyer Spindler
Robert LaVerne Spindler
Richard Everett Troup
Sara Jean Van Horn
Everette E. Viets
Doris Jean Wagner
Joe Wakefield, Jr.
Robert E. Watkins
Darlene Cox Welborn
Douglas Ward Welborn
Donna Jean White
Anna Margaret Robison
Willhite
David S. Woods
Robert Lee Yong

Prizes and Scholarships

Ellen Sheldon Penny Memorial, Class of 1934—Joyce Brown, Atchison, Kansas
Filson-Shoemaker Memorial, Class of 1909—Elizabeth Barnett, Delta, Colorado
Liberty Memorial Fund, Class of 1918—Joyce Stuermer, Turner, Kansas
Elizabeth Higgins Memorial, Class of 1917—Mary Schowengerdt, Topeka, Kansas
Fern Willis Scholarship—Rosalie Macy, Ottawa, Kansas
Ward Alumni Scholarship—Miriam Cain, Glen Elder, Kansas
Ola Hammond Memorial—Clara Bird, Davison, Michigan; Martha Peterson, Concordia, Kansas
Royal Sheldon Scholarship—Isaac Aurelio, Isabella, Island of Negros, Philippines
Blattler Scholarship—Gene Allen Miller, Belpre, Kansas
Edwin and Louisa Potter Scholarship—Janice E. Feucht, Lansing, Michigan
Twining Scholarship—Helen M. Olson, Garnett, Kansas
Stephenson Scholarships—Ruth Anne Biggar, Saco, Maine; Merrill J. Huxley, Des Moines, Iowa
Jacob E. Shinn Scholarship—Keith Thompson, Ottawa, Kansas
Harriet Chase Tyler Scholarship—Gary Tyler, Sabetha, Kansas
Dr. Charles L. Overlander Scholarships—Roy Van Der Linden, Colorado Springs, Colorado; Roberta McBride, Hampton, Iowa
Harold Tiffany Memorial—Dean M. Brown, Mooseheart, Illinois
Alderson Scholarship—Mary Alice Edwards, Wichita, Kansas
Collingwood Scholarship—John Bolan, Plains, Kansas
Holt Scholarship—Allen Lee Holt, Silver Lake, Kansas
E. E. Anderson Scholarship—Clair Popp, Red Oak, Iowa
Ottawa High School Honor Scholarships—Donald R. Banker, Roger W. Cummings, Gordon Dickerson, William M. Seymour, Lyndel Stadt.

Registration of Students

Regular Session 1951-1952

FRESHMEN

Amrine, Walter	Cortez, Colo.	Jassar, Fouad	Amman, Trans-Jordan
Anderson, Carol Lee	McPherson	Johnson, Margie	Concordia
Anderson, Shirley	Stromsburg, Nebr.	Jurenka, Gilbert	Madison
Anderson, William	Madison	Knox, LeRoy	Boone, Iowa
Arvin, Margie	Kansas City, Mo.	Kramer, Doris	Valley Falls
Austin, Marinell	Joplin, Mo.	Kremer, Mary Jo	Pittsburgh, Pa.
Ball, Everett	Evergreen Park, Ill.	LaRue, Robert	Boulder, Colo.
Barber, Donna	Greensburg	Lefever, Max	Wichita
Barker, Vernon	McPherson	Lewis, Jean	Wichita
Barnes, Wilbur	Ottawa	Long, Shirley	Ottawa
Barton, Donald	Ogdensburg, N. Y.	McClintic, Jerry	Paola
Bates, Carol	Fort Scott	McMahan, Ezelee	Great Bend
Baughman, Berna Sue	Colo. Sprs., Colo.	Mabry, J. D.	Ottawa
Blazier, Kenneth	Denver, Colo.	Machlan, Howard	Seymour, Conn.
Bogard, Donald	Shawnee	Madigosky, Walter	Kansas City
Bowman, Lee	Wollaston, Mass.	Majors, Dale	Larned
Bradley, Lois	Loveland, Colo.	Marley, Wayne	Denver, Colo.
Bradley, William	Alta Vista	Masuda, Shiro	Bern
Brown, Carolyn	McCook, Nebr.	Miller, Reeva	Troy
Brown, Clara	Hutchinson	Nitz, Norma Jean	Coldwater
Brown, Jack F.	Boise, Idaho	Nokes, Russell	Studley
Burton, Jim	Wichita	O'Dell, Mildred	Ottawa
Calkins, Elbert	Shawnee	Oyer, Wesley	Turner
Camp, Esther	Grand Island, Nebr.	Palmquist, Theodore	Longmont, Colo.
Cassaday, Larry	Des Moines, Iowa	Parks, Alice	LaCygne
Christian, Lawrence	Topeka	Pease, Harold	Lorraine
Clapp, Frances	Hutchinson	Peters, Claire	Concordia
Clark, William	Lebo	Peterson, Martha	Danville, Pa.
Click, Betty	Olathe	Phillips, Patricia	Leavenworth
Cole, Joan	Jamestown, R. I.	Phillips, Robert	Ottawa
Cole, Phyllis	Argonia	Plummer, Gaylord	Green River, Wyo.
Dark, Robert	Lecompton	Potts, Melvin	Junction City
Davis, Paul	Wichita	Prouty, Margie	Oriente, Cuba
Delehoy, James	Evergreen Park, Ill.	Remon, Rosa	Hope
Divelbiss, John	Kansas City	Rhodes, James	Valley Center
Dorsey, Charles	Des Moines, Iowa	Rich, Carol	Herington
Dragoo, Lavonne	Colo. Springs, Colo.	Riffel, Kenneth	Kingman
Drew, Daniece	Fort Morgan, Colo.	Robinson, Wanda	Princeton
Estes, Jack	Valley Falls	Robison, Rea	Pittsburgh, Pa.
Gardner, Eugene	Providence, R. I.	Ryan, David	Chanute
Garrett, Jim	Madison	Schoonover, Marilyn	Ottawa
Gillespie, Martha	Kansas City, Mo.	Shumate, Charles	Kansas City
Goodsell, Nancy	Canton, Ill.	Slawson, Don	Great Bend
Haflich, Earle	Garden City	Spangler, John	Ottawa
Haggard, Nancy E.	Bethel	Stadt, Lyndel	Leavenworth
Hanes, Lyle A.	Ottawa	Steele, Merrill F.	Attica, N. Y.
Harney, Eleanor	Canton, Ill.	Steele, Royal	Lexington, Ind.
Harrison, Armand	Ottawa	Storen, Patrick	Bazine
Heisel, James	Milwaukee, Wis.	Stout, Patricia	Charles City, Iowa
Henning, Donald	Belpre	Stratton, Thomas	Cuyahoga Falls, Ohio
Hernon, Doris	Amy	Timberlake, Morris	Louisburg
Hesket, Elizabeth	Winfield	Towne, J. W.	Los Angeles, Cal.
Hilding, Carolyn	Osage City	Tucker, Ruth	Salina
Hilliard, Christine	Newton Highlands, Mass.	Vaniman, Gwen	Green River, Wyo.
Hinken, David	Topeka	Walker, Priscilla	Medford, Mass.
Hogan, Rosemary	Saginaw, Mich.	Walter, Carolyn	Ottawa
Holt, Allen	Topeka	Ward, Laura	Ottawa
Howard, William	Denver, Colo.	Warner, Richard E.	Lewis
Huxley, Merrill	Des Moines, Iowa	Wheaton, Robert	Lewis
Isley, Mary	McPherson	Whitaker, Richard	Ottawa
Inskeep, Ellen Mae	Longmont, Colo.	Williams, Grace	New Berlin, Ill.
Ireland, Michael	Arkansas City	Wiseman, Bonnie	Montrose, Colo.
Jackson, John	Clay Center	Yoder, Patricia	Boulder, Colo.

SOPHOMORES

Anderson, Doris	Lindsborg	Means, Martha	Russell
Axworthy, Glenn	Santa Ana, Cal.	Miller, Gene	Belpre
Baker, John	El Dorado	Mitchell, Patricia	Ottawa
Bird, Clara	Davison, Mich.	Moburg, Clifford O.	North K. C., Mo.
Bloom, Wilbur	Detroit, Mich.	Moore, Alice	Hope Valley, R. I.
Bogard, Frank	Shawnee	Moore, Marilyn	Ottawa
Bremer, Jerry	Ottawa	Moore, Walter	Ottawa
Buffum, Marilyn	Winfield	Myers, Janise	Oskaloosa
Cameron, Jim	El Dorado	Newberry, Carol	Fort Scott
Capper, Sherlie	Ottawa	Olson, Helen	Garnett
Carpenter, JoAnn	Wellsville	Ornell, Kenneth	Sharon, Mass.
Carter, Edith	Ottawa	Owings, Joyce	Syracuse
Cash, JoJanette	Augusta	Pankratz, Walter	Herington
Claypool, Edmund	Ottumwa, Iowa	Parker, Alvin L.	Lawrence
Clifton, Kenneth	Sabetha	Pascal, Mary Ellen	Bucyrus
Coldsnow, Ronald	Iowa City, Iowa	Petersen, Frederik	Copenhagen, Denmark
Collins, Marilyn	Ottumwa, Iowa		Red Oak, Iowa
Currier, David	Molina, Colo.	Popp, Clair	Morrill
DeFries, Mary	Muncie	Roush, Wanda	Morrill
DeMoss, Ruth	Scottsbluff, Nebr.	Roush, Wilma	Mesched, Iran
Dawdney, Doris	Oakland, Cal.	Saraidarpour, Hadi	Ikeda-shi, Osaka-fu, Jap.
Dick, Marjorie	Ottawa	Sato, Tokiko	Atchison
Dollar, Robert	Berkley, Cal.	Saunders, Frank	Ottawa
Dowell, Chris	Fresno, Cal.	Savidge, Charles	Bazine
Drake, Flada	Ottawa	Schaben, Donna	Ottawa
Duncan, James	Wichita	Scherling, Elizabeth	University City, Mo.
Edwards, Mary Alice	Kansas City, Mo.	Schreiner, Ruth	Ottawa
Evans, Odie	Overland Park	Sellers, Don	Richmond
Ferguson, William	Lansing, Mich.	Sigler, Dorothy	Lincoln, Nebr.
Feucht, William	Ottawa	Smith, Joanne	Dighton
Finch, Shirley	Ottawa	Smith, Roland	Newton
Fincher, Russell	Ottawa	Smith, Shirley	Lorraine
Fogle, Daniel	Hiawatha	Staeber, Ann	Davenport, Iowa
Francis, Colleen	Arkansas City	Still, Paula	Detroit, Mich.
Gay, Robert	Iloilo City, Phil.	Stromberg, Donald	Canon City, Colo.
Gobuyan, Vicente	Sabetha	Susman, John	El Dorado
Greer, Margaret	Clay Center	Taylor, Merle	Kansas City
Grogan, Donald	Delta, Colo.	Thyr, Harold D.	Kansas City
Grover, Dwight	Mesched, Iran	Thyr, Louise	Gem
Hamidi, Mehdi	Ottawa	Treat, Estelle	Galesburg, Ill.
Hartshorn, James	Ottawa	Tryon, Marilyn	Lawrence
Henning, Ellen Ann	Winfield	Turner, Dale	Colo. Sprs., Colo.
Hill, Carl	Medford, Mass.	VanderLinden, Roy	Denver, Colo.
Huddleston, James	Newton	Warden, Alice	Fort Collins, Colo.
Jacobson, Elsie	Cuxhaven, Germany	Warden, Nita	Ottawa
Johnson, Russell	Galesburg, Ill.	Welborn, Mildred	Hutchinson
Junge, Helga	Clinton, Iowa	Wheaton, Wilbur	Alden
Killingsworth, Alan	Detroit, Mich.	Wiles, Emma	Garnett
Kirkman, Jean	Longmont, Colo.	Wollen, Marvin	Kansas City
Mackinder, Joan	Stanley	Woods, Jane	Aberdeen, Wash.
Malcolm, Ruby	Ottawa	Wood, Donna	Boulder, Colo.
Margason, Maurice	East Orange, N. J.	Yoder, Winona	Lansing
Martin, Richard		Young, William	
McCrosen, James			

JUNIORS

Anderson, Donna	Lindsborg	Dailey, Ronald	Garden City
Bainer, Philip	Ottawa	Devor, Dorothy	Scottsbluff, Nebr.
Barnes, Martha	Ottawa	Dierks, Douglas	Iowa City, Iowa
Bishop, David	Waltham, Mass.	Dorland, John	Greensburg
Blair, Joyce	Davenport, Iowa	Elliott, William	Ottawa
Boomis, Martha	Independence	Flores, Solomon	Kansas City
Brandon, James	Independence	Frazier, Joseph	Garden City
Brown, Dean	Mission	Gaddis, John	Ottawa
Browning, Marilyn	Mooseheart, Ill.	Garber, Frederick	Neodesha
Burton, Jack	Ottawa	Gay, Twila	Arkansas City
Butterworth, William	Wichita	Geise, Dudley	Underwood, Iowa
Chase, Richard	El Dorado	Greenmun, Esther	Binghamton, N. Y.
Chism, Stewart	Independence	Greiner, Richard	Ottawa
Clark, John	Ottawa	Groeschel, Charles	Ottawa
Cott, Wayne	Overbrook	Guffy, Elizabeth	Red Oak, Iowa
Crandall, Terry	Colo. Springs, Colo.	Guffy, Mary	Red Oak, Iowa
	Littleton, Colo.		

Haack, Wilma
Hamilton, Joan
Harrod, Victor
Hobson, Louise
Huber, Virginia
Hughes, Robert
Ingersoll, Lois
Jones, Betty
Kennedy, Mary Jane
Kramer, Juanita
Lancaster, Roscoe
Landry, Gene
Lefever, Hollis
Leighton, Oliver
Lile, Violet
McKeag, Dorinne
Manos, Dale
Mason, Cleland
Meiers, Richard
Moore, Lois

Maywood, Ill.
Chanute
Yates Center
Merriam
Wichita
Ottawa
Ottawa
Mission
Wichita
Valley Falls
Ottawa
Boston, Mass.
Wichita
Topeka
Wichita
Arthur, Nebr.
Grand Junction, Colo.
Salina
Bucyrus
Hutchinson

Patty, Jack
Ralph, Norma
Roth, Elmer
Sands, Emma Jean
Schirer, Marshall
Schoepfer, Donald
Scott, Pauline
Seymour, Wayne
Simons, Donald
Steinle, Dwayne
Thompson, Fred W., Jr.
Thompson, Keith
Trent, Dorothy
Turner, Donald
Twyman, Gayle
Walthall, Harry
West, Glenna Mae
Westlund, Theo
Zabko-Potapowicz, Bogdan

El Dorado
Ottawa
York, Nebr.
Newton
Newton
East Providence, R. I.
Ottawa
Lansing
Eudora
Parsons
Parsons
Ottawa
Augusta
Sabetha
Ottawa
Kansas City
Ottawa
Topeka
Chester, Pa.

SENIORS

Anderson, Roland
Angell, Aladine
Angell, Wayne
Aurelio, Isaac
Biggar, Ruth Anne
Bolam, Erma
Bolam, John
Brawley, Betsy
Brooks, Robert
Brown, Elwood
Brown, Mason
Cain, Miriam
Carpenter, James
Carpenter, Margaret
Carr, Mrs. Clara
Chapman, Orville
Coffin, Shirley
Correll, Ross
Crooks, Carolyn
Cudworth, Daniel
Davenport, Max
Dingess, Lois Jean
Edge, Virginia
Foust, Dean
Funk, Margaret
Gaddis, Lauren
Gangwish, Dwight
Garrison, James
Goodman, Vera
Gover, John
Griffith, Rosalind
Hoover, Donald
Huddleston, Robert
Kershner, Douglas
Kingcade, Freda
Kramer, Lawrence
LaRue, Mary Jean
Lawson, Bobbie

Ottawa
Chanute
Plains
Isabela, Phil.
Saco, Me.
Wichita
Plains
Owensboro, Ky.
Mission
Fort Morgan, Colo.
Littleton, Colo.
Glen Elder
Flagler, Colo.
Danielson, Conn.
Richmond
Riverside, Cal.
McLouth
Plains
Topeka
Wichita
Leon
Huntington, W. Va.
Hamden, Conn.
Denver, Colo.
Sedan
Ottawa
Shelton, Nebr.
Horton
Pratt
Ottawa
Topeka
Ottawa
El Dorado
Ottawa
Freeman, Mo.
Ottawa
Boulder, Colo.
Ottawa

McCowan, Wilma
McKeag, Dorothy
Machlan, Lawrence
Mavity, Gene
Medill, George
Miller, Marcile
Moody, Betty K.
Murray, Harold
Nagashima, Nobie
Neuenschwander, Dwight
Nevels, Calvin
Olson, Warren
Reynolds, Louis
Rhoads, Douglas
Rich, Eleanore
Salisbury, Robert
Scherling, Kenneth
Schmitz, William
Schowengerdt, Mary
Seymour, Edgar
Shukers, Carroll
Smith, David
Stadt, Dorothy
Stoll, Richard
Stuermer, Joyce
Taylor, Zylene
Thomas, Richard
Tokita, Dawn
Tullis, Lois
Turner, Bernerd
Walker, Jean Anne
Ward, Robert
Wesseler, Nelda
Wheaton, Paul
Wilkie, Alexander
Williams, Marilyn
Wilson, John
Wyrick, Neal

Kansas City, Mo.
Arthur, Nebr.
Ottawa
Ottawa
Leavenworth
Wellington
Ottawa
Fort Scott
Denver, Colo.
Scott City
Ottawa
Denison, Iowa
Salina
Ottawa
Harrington Park, N. J.
Solvay, N. Y.
Ottawa
Ottawa
Topeka
Rantoul
Little Rock, Ark.
Denver, Colo.
Ottawa
Rose
Kansas City
El Dorado
Kingman
Yokohama, Japan
Evansville, Wisc.
Lawrence
Chicago, Ill.
Ottawa
Lorraine
Hutchinson
Fruita, Colo.
Ottawa
Ottawa
Leavenworth

SPECIAL STUDENTS

Beuthien, Edna
Catt, Jerry
Chang, Claire
Fletcher, Iris
Gillette, Juanita

Princeton
Anderson, Ind.
China
Ottawa
Homewood

Helman, Patricia
Hewitt, John
Riddick, Leota F.
Schirer, Donna

Ottawa
Paola
Ottawa
Newton

POST GRADUATES

Nordeen, Joel
Ottawa
Dane, Herschell E.
Overbrook, Okla..

SUMMER SESSION

Allenbrand, Lelia
Anderson, Roland
Angell, Aladine
Anschutz, Leo
Asher, James
Asher, Zella
Aurelio, Isaac
Baker, Laura
Barnard, Joseph
Barnett, Ward
Bemmels, Esther
Bigham, Norman
Blair, David
Brawley, Betsy
Bremer, Hazel
Brooks, Robert
Brown, Elwood
Button, Lillie
Cain, Amanda
Capper, Sherlie
Carpenter, James
Carpenter, Margaret
Carr, Clara
Chambers, Roy
Chism, Clyde
Claypool, Edmund
Clinton, Fern
Coldsnow, Ronald
Conner, Esther
Counts, Thomas
Crooks, Carolyn
Dailey, Ronald
Daniels, Charlotte
Davis, Claire
Davis, Patricia
DeFries, Mary
Dewdney, Doris
Dick, Margaret
Dingess, Lois Jean
Elliott, William
Goodman, Beverly
Greenmun, Esther
Ellis, William
Eneihen, Maude
Fleming, Eva
Fletcher, Iris
Fredricks, Clinton
Funk, Margaret
Gaddis, Lauren
Garrison, James
Gay, Twila
Gilliland, Mabel
Grover, Bessie
Gullickson, Joyce
Gunselman, Jocelyn
Gwartney, Dolores
Haff, Jimmie
Hamidi, Mehdi
Harrison, Dorothy
Hawley, Charles
Hegberg, Esther
Henness, Ruth
Herron, Louise
Hoover, Donald
Hosler, Robert
Huber, Virginia
Hunt, Margery May
Huston, Norma
Ingersoll, Lois
Ireland, Avis
Jefferis, Marjorie
Jones, Schrader
Kelly, Aileen
Kindall, Virginia
Kingcade, Freda

Olathe
Ottawa
Chanute
Bunker Hill
Sterling
Sterling
Isabela, Phil.
Ottawa
St. Louis, Mo.
Chanute
Ottawa
Lawrence
Ottawa
Ottawa
Mission
Fort Morgan, Colo.
Pomona
Quenemo
Ottawa
Flagler, Colo.
Danielson, Conn.
Richmond
Wellsville
Ottawa
Ottumwa, Iowa
Garnett
Iowa City, Iowa
Ottawa
Meade
Topeka
Garden City
La Cygne
Williamsburg
Ottawa
Muncie
Oakland, Cal.
Ottawa
Huntington, W. Va.
Ottawa
Newton
Binghamton, N. Y.
Pomona
Rantoul
Ottawa
Rantoul
Ottawa
Sedan
Ottawa
Horton
Arkansas City
Ottawa
Ottawa
Horton
Oskaloosa
Easton
Coffeyville
Mesheh, Iran
Ottawa
Ottawa
Ottawa
Newton
Lane
Ottawa
Ottawa
Wichita
Garnett
Ottawa
Ottawa
Toronto
Ottawa
Paola
Waverly
Canon City, Colo.
Freeman, Mo.

Kinkaid, Ruth
Knight, Roy
Lancaster, Roscoe
Landry, Gene
Lantis, Wilma
Larkin, Eunice
LaRue, Mary Jean
Lawrence, Charles
Lindburg, Patricia
Lingo, Rosemary
Logan, Mercedes
Logan, Robert
Lynn, Dorothy
McAfee, Hazel
McClay, Nina
McMahan, Eva
Martin, Elaine
Mavity, Gene
Mills, Helen
Mohr, Dorothy
Monroe, Lewis
Moody, Mrs. Ruth
Moon, Snowden
Murray, Harold
Nevels, Calvin
Nurdyke, Mabel
Ohlsen, Robert
Oyer, Lawrence
Oyer, Marie
Perney, Jerry
Patty, Jack
Pearson, Kenneth
Peters, Doris
Phelps, Dorothy
Phifer, Bobby
Poland, Ilene
Ponton, Zena
Potts, Melvin
Pratt, Doris
Quaintance, Donald
Quaintance, Helen
Quaintance, Jack
Reid, Jean
Richey, Ruth
Riley, Roxie
Rioth, Marion
Risinger, Doris
Robbins, Raymond
Roseberry, Fern
Roth, Elmer
Salisbury, Robert
Sands, Pat
Saraidarpour, Hadi
Scherling, Kenneth
Shukers, Carroll
Shukers, Nina
Shuler, Almira
Smart, Herbert
Springer, John
Stadel, Patricia
Staley, Harold
Stephan, Harold
Stoll, Richard
Stovall, Dale
Strauss, Josephine
Swaner, Mary
Thomas, Richard
Thompson, Beulah
Thompson, Edith
Tullis, Lois
Turner, Alice
VanWie, Gladys
Vermillion, Nellie
Waldrup, Ralph
Ward, Robert

Ottawa
Herrington
Ottawa
Boston, Mass.
Ottawa
Ottawa
Boulder, Colo.
Grant City, Mo.
Osage City
Waverly
Ottawa
Ottawa
Ottawa
Kansas City
Ottawa
Paola
Moundridge
Ottawa
Olathe
Ottawa
Selma
Ottawa
Waverly
Fort Scott
Ottawa
Ottawa
Whitewater
Ottawa
Ottawa
Ottawa
El Dorado
Edgerton
Ottawa
Hillsboro, Iowa
Holly, Colo.
Gem
Richmond
Green River, Wyo.
Ottawa
Centerville
Centerville
Centerville
Ottawa
Merwin, Mo.
Garnett
Ottawa
Valley Falls
Atchison
Rantoul
York, Nebr.
Solvay, N. Y.
Ottawa
Mesheh, Iran
Ottawa
Little Rock, Ark.
Little Rock, Ark.
Ottawa
Irvington, N. J.
Ottawa
Quenemo
Goodland
Nortonville
Rose
Ottawa
Ottawa
Parker
Kingman
Ottawa
Chanute
Evansville, Wisc.
Ottawa
Garnett
Garnett
Chanute
Ottawa

Watts, Naomi
Welborn, Barbara
Welton, Nellie
Whitwell, Gladys
Wilhite, Lily Ruth
Wilkie, Alex

Ottawa
Miltonvale
Ottawa
Garnett
Ottawa
Fruita, Colo.

Williams, Marilyn
Wilson, Addys
Wilson, Essie
Wisner, Mary
Zara, Sam

Ottawa
Ottawa
Bucyrus
Pomona
Hewlett, N. Y.

POST GRADUATE STUDENTS

Gaddis, Sunshine
Haworth, Esther
Hayden, Evelyn
Hodges, John
Lancaster, Floribel

Ottawa
Ottawa
Overbrook
Tulsa, Okla.
Ottawa

Lawrence, Mary
Nebelong, Lelia
Printz, Lloyd
Salisbury, Bette
Worthington, Dixie

Ottawa
Ottawa
Clay Center
Syracuse, N. Y.
Ottawa

FINE ARTS

Hutchinson, Georgia
Oswald, Donald

Princeton
Princeton

Stadt, Imogene
Stinson, Ruth

Ottawa
Ottawa

Enrollment Table

1951-1952

	Regular Session			Summer Session			Grand Total		
	M	W	Total	M	W	Total	M	W	Total
Sophomores.....	69	58	127	3	4	7	72	62	134
Juniors.....	53	53	106	11	31	42	64	84	148
Seniors.....	46	27	73	16	32	48	62	59	121
Post Graduates.....	45	30	75	36	21	57	81	51	132
Specials.....	2	8	10				2	8	10
Post Graduates.....	1		1	2	9	11	3	9	12
Total.....	216	176	392	68	97	165	284	273	557

Less Duplicates

79

Net Enrollment

478

	Fr.	Soph.	Jr.	Srs.	Sp.	P.Gr.	Total
Students from Kansas.....	78	68	56	49	7	1	259
Students from outside Kansas.....	50	37	17	26	2	1	133
Number of States Represented.....	17	12	10	15	2	1	23
Number of Foreign Countries.....	3	4		3	1		9

Index

Absences	37	Divisional Organization	20
Academic Program	37	Divisions of	
Achievement Programs	27	I Natural Sciences and	
Activities	49	Mathematics	61
Administrative Officers	5	II Health, Physical Education,	
Admission Requirements	42	and Recreation	71
Advanced Standing	43	III Mind, Personality, and	
Alpha Psi Omega	51	Education	74
Alumni Association	53	IV Social Sciences	80
American Association of Colleges	45	V Languages and Literature	91
American Citizenship Certificate	28	VI Fine Arts	101
Art	101	VII Religion and Philosophy	108
Assistantships	59	Dormitories	46
Athletic Board	50	Drama	97
Athletics	52		
Attendance	37	Economics	83
Auditors	40	Education	76
		Educational Counseling	48
Bachelor of Arts	24	Educational Standing	44
Bachelor of Music	25	El Centro Pan Americano	50
Bachelor of Music Education	26	Employment	59
Bachelor of Science	24	Engineering	29
Band	108	English	92
Basic Skills	19	English Club	50
Bible	109	Enrollment	42
Biology	61	Entrance Requirements	42
Board and Room	56	Equipment	46
Board of Trustees	4	Examinations, Comprehensive	20
Botany	62	Examinations, General	19
Buildings	45	Examinations, Preliminary	19
Business Administration	83	Examinations, Special (Fee)	56
Business Vocational Preparation	33	Excess Hours, Fee for	54
		Expenses	54
Calendar	2	Extra-curricular Activities	40
Campus	45		
Campus, The Ottawa	53	Faculty	6
Cedarcrest	46	Faculty Committees	8
Certificates, Teaching	34	Fees	54
Certificates, Secondary School	75	FHA Housing Units	46
Certificates of Achievement	27	Financial Aid	57
Change of Courses	43	Foreign Language	98
Chapel Attendance	37	French	100
Chapel Services	51	Freshman Week	43
Charlton Cottage	46		
Chemistry	64	General Education	19
Choir	107	General Examination	19
Christian Lay Leadership	27	General Fee	54
Christian Service	29	General Information	44
Christianity	108	General Requirements	23
Classification of Students	39	German	100
Clubs, Divisional	50	Government, Student	49
Clubs, Social	49	Grade Points	37
Commerce	85	Grades	37
Committees of Faculty	8	Graduate Record Examination	24
Commons Building	45	Graduation, Attendance at	37
Comprehensive Examinations	20	Graduation Honors	111
Counseling	48	Graduation Requirements	24
Course Honors	38	Grants-in-Aid	58
Courses of Study	60	Great Books	22
Curriculum, Organization of	20	Greek Letter Clubs	49
		Guidance	48
Debate	96		
Degree Requirements	23	Health	49
Degrees Offered	23	History	44
Degrees, 1951	112	History of the Institution	44
Discipline	41	Home Arts	89
Divisional Clubs	50		

Home Management Certificate	29	Psychology	79
Honorary Societies	51	Publications	52
Honors Course	39	Purpose, Statement of	17
Honors Program	38	Radio Station	47
Honors Roll	39	Reading Improvement	92
Honors Society	39	Reading of Great Books	22
Honors and Awards in 1950-1951	111	Recitals, Music	108
Honor Scholarships	57	Refunds	55
Hours, Defined	37	Register of Students	114
Incomplete Work	38	Registration	42
Infirmity	47	Regulations	35
Insurance, Student	55	Religion, Courses in	108
Integrating Survey	60	Religious Board	50
Intercollegiate Sports	52	Religious Life	50
Intramural Athletics	52	Required Courses	24
Journalism	30	Requirements for Admission	42
KTJO	47	Requirements for Graduation	23
Laboratories	46	Room Reservation	55
Law	30	Scholastic Societies, National	51
Lay Leadership Certificate	27	Scholarships	57
Library	47	Science Club	50
Literature, American and English	92	Secretarial Science	85
Loan Funds	58	Sheldon Hall	46
Major Field	20	Sixty-hour Certificate	34
Majors Offered	23	Social Board	50
Mathematics	68	Social Clubs	50
Medicine	31	Social Science	80
Music	102	Social Work	33
Music Degrees	25	Sociology	86
Music Expenses	55	Spanish	98
Music Organizations	107	Spanish Club	50
Music, Minister of	32	Special Examinations	56
Music Theory	105	Special Problems Course	60
New Student Week	43	Special Students	40
North Central Association	44	Speech	96
Numbering of Courses	60	Speech Expenses	55
"O" Club	52	Stenography	86
Officers	5	Student Aid Funds	57
Orchestra	108	Student Council	49
Organ	103	Student Load	40
Organizations	49	Student Loans	58
Ottawa, City of	44	Student Manager	49
Ottawan	53	Summary of Register, 1950-1951	118
Personnel Services	47	Summer School	36
Philosophy	110	Summer Session, 1951	117
Physical Education	71	Tauy Talk	53
Physics	66	Teachers' Certificates	34
Pi Kappa Delta	52	Teacher Placement	48
Piano	103	Teaching Requirements	75
Placement	48	Transcript of Grades	56
Political Science	82	Trustees	4
Practice Teaching	77, 78	Tuition	54
Practice Teaching, Fees	55	Vacations	2
Pre-College Guidance	48	Violin	104
Preliminary Examination	19	Vocational Counseling	48
Pre-Medical Training	31	Vocational Programs	27
Pre-Professional Programs	29	Voice	104
Preparation for Teaching	34	Ward Manor	46
Principles of Education	18	Withdrawals	38
Prizes and Scholarships, 1951	113	Women's Athletic Association	52
Probation	38	Women's Residence Hall	46
		Work, Excess	39
		Zoology	61