

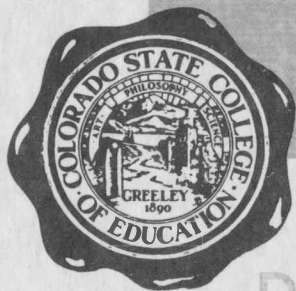
Colorado
Colorado State College

1954-55
Gleeze (Desk Copy)

COLLEGE CATALOGS

Colorado
State
College
of
Education
Bulletin

Greeley



1954 • 1955

Catalog Number

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HOW TO APPLY FOR ADMISSION

Students Attending College For The First Time

1. Get an Application for Admission form from your high school principal. Out-of-state students write to Department of Student Personnel, Colorado State College of Education.
2. Fill in Part I of the Application for Admission and have the high school office complete the form and send it to the Department of Student Personnel. Applications may be filed any time after the close of the first semester of the senior year in high school.
3. Upon receipt of the application, the college will inform you of your admission status and will send you a form for reserving a room in a college residence hall.
4. Additional information regarding the freshman orientation program, health examinations, etc., will be mailed prior to the opening of college in September.

Transfer Students (Undergraduates)

1. File with the Registrar, Colorado State College of Education:
 - a. An Application for Admission including high school record.
 - b. An official transcript of all credits earned at other colleges or universities.

In order to insure admission, these materials should be sent to the Registrar well in advance of the quarter for which the transfer student wishes to enroll. Necessary forms may be obtained from the Registrar.

Graduate Students (Please see pages 24-42)

PLEASE NOTE

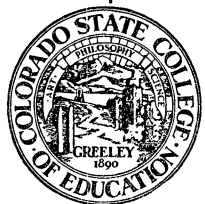
Students are urged to retain until their graduation the copy of the catalog that they receive.

Please bring this catalog with you when you register. Only one catalog will be given to a student.

Thank you for your cooperation.

Colorado
State College
of Education
Bulletin
Greeley
Colorado

YEARBOOK NUMBER • 1954 • 1955



Series LIV • April 1954 • Number 1



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OF EDUCATION BULLETIN



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Directory

5	College Calendar
6, 7	Officers of Administration
8-15	Instructional Staff
16	Functions of the College
16-18	Academic Information
18-24	Undergraduate Program
24-42	Graduate Program
42-156	Description of Courses
42-48	Division of Air Science and Tactics
48-69	Division of the Arts
70-93	Division of Education
93-104	Division of Health and Physical Education
104-119	Division of the Humanities
119-129	Division of Music
130-145	Division of the Sciences
145-154	Division of the Social Studies
154-156	General Information
156-158	Student Personnel
159-161	Student Activities
161-163	Scholarships, Awards, Loan Funds
163-166	Expenses
167-170	Index

College Calendar

• 1954 • 1955

1954

September 20
September 21
October 28-29
November 24,
25, 26
December 9-10

1955

January 3
January 4
March 14-15

1955

March 21
March 22
May 27
May 29
May 30
May 31
June 1
June 2-3

1955

June 13-23
June 25
June 27
July 4
August 18
August 19

FALL QUARTER

Registration for all students
Classes begin
C.E.A. Convention
Thanksgiving vacation
(Starts noon Nov. 24)
Final examinations

WINTER QUARTER

Registration for all students
Classes begin
Final examinations

SPRING QUARTER

Registration for all students
Classes begin
Insignia Day
Baccalaureate
Memorial Day holiday
Senior Ceremonial
Commencement
Final examinations

SUMMER SESSIONS

Pre-Session
Registration for Summer Session
Classes begin
Independence Day holiday
Convocation
Final examinations

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Columbia University.

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of Education.

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Graduate Student, University of Chi-
cago.

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*Associate Professor of Educational
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Graduate Student, State University of
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Stanford University.

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of Wisconsin.

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CHARLES ALDEN GARDNER, A.B., University of Arizona; A.M. in Library Science, University of Denver.

Circulation Librarian

CATHERINE HUNT GATES, B.S., University of Missouri; B.S. in Library Science, University of Denver; A.M., Colorado State College of Education.

Acquisitions Librarian

MARGARET MARIE PORTER, A.B., A.M., Colorado State College of Education; Certificate in Librarianship, University of Denver; Graduate Student, Columbia University.

Laboratory School Librarian

HAROLD FREDERICK SMITH, A.B., Park College; A.M., University of Kansas; A.M., University of Denver.

Assistant Reference Librarian

FLORENCE MAE WILLIAMS, A.B., Quincy College; B.S. in Library Science, University of Southern California; A.M., Colorado State College of Education.

Assistant Catalog Librarian

On leave Fall Quarter, 1954-55.

FELLOWSHIP STUDENTS

DARYL LEE DELL, A.B., Iowa State Teachers College; A.M., Colorado State College of Education.

Secondary School

CLARENCE WILBERT MINKEL, A.B., Colorado State College of Education.

Secondary School

LENA YOLANDE POLLARD, A.B., Colorado State College of Education; A.M., Columbia University.

Elementary School

GUY GENE REIFF, B.S., University of Southern California.

Secondary School

EMERITUS FACULTY

GEORGE WILLARD FRASIER, A.B., Ed.M., A.M., Ph.D., LL.D., Sc.D.

President Emeritus

GRACE MAE BAKER, B.Art Ed., B.S., A.M.

Professor Emeritus of Art

SAMUEL CLAY BEDINGER, A.B., A.M.

Assistant Professor Emeritus of Business Education

MARGARET ELIZABETH BRYSON, A.B., A.M., M.D.

Professor Emeritus of Health Education

AMBROSE OWEN COLVIN, B.C.S., A.M., Ph.D.

Professor Emeritus of Business Education

ETHAN ALLEN CROSS, A.B., A.M., Ph.D., Litt.D., L.H.D.

Professor Emeritus of English

OLIVER MORTON DICKERSON, A.B., A.M., Ph.D.

Professor Emeritus of History and Political Science

EZRA CLARENCE HARRAH, A.B., A.M., Ph.D.

Professor Emeritus of Zoology

JOSEPHINE MARY HAWES, A.B., A.M.

Professor Emeritus of English

JACOB DANIEL HEILMAN, A.B., Ph.D.

Professor Emeritus of Educational Psychology

FRANK COVERT JEAN, A.B., A.M., Ph.D., Sc.D.

Professor Emeritus of Biology

ELIZABETH HAYS KENDEL, A.B., L.H.D.

Associate Professor Emeritus of Mathematics

GENEVIEVE LEMEN LYFORD, B.S., A.M.

Associate Professor Emeritus of Elementary Education

ANNA EVELYN NEWMAN, Ph.B., Ph.M., Ph.D.

Professor Emeritus of English

ORA BROOKS PEAKE, A.B., A.M., Ph.D.

Professor Emeritus of History

LUCY LYNDE ROSENQUIST, Ph.B., A.M.

Associate Professor Emeritus of Elementary Education

MARGARET MOORE ROUDEBUSH, A.B., Ph.B., M.S.

Professor Emeritus of Home Economics

OTTO WILLIAM SCHAEFER, M.S.

Professor Emeritus of Industrial Arts

FLOSS ANN TURNER, Ph.B., A.M.

Associate Professor Emeritus of Elementary Education

SUSAN HART VAN METER, B.S., A.M.

Associate Professor Emeritus of Elementary Education

FREDERICK LAMSON WHITNEY, Ph.B., Ed.B., A.M., Ph.D.

Professor Emeritus of Education

EDITH GALE WIEBKING, A.B., A.M.

Professor Emeritus of Home Economics

GRACE HANNAH WILSON, A.B., A.M., Ph.D.

Professor Emeritus of Education

Functions of the College

The primary purpose of Colorado State College of Education is to prepare teachers and administrators for many kinds of educational positions. The administration and faculty expect each student to maintain a high standard of scholarship and professional development, and to be thoroughly prepared at the time of his graduation. Four programs are offered—an undergraduate program and three graduate programs.

Undergraduate program • Bachelor of Arts (A.B.) degree with a teaching certificate. A permanent certificate to teach in Colorado accompanies the degree. It is possible for a student to take courses leading to the Bachelor of Arts (A.B.) degree in liberal arts. This degree does not carry a teaching certificate. Less than ten per cent of the students are enrolled in this program.

Graduate Program • 1. Master of Arts (A.M.) degree. This degree is offered in seven divisions of the college. A permanent certificate to teach in Colorado accompanies the degree.

2. Specialist in Education (Ed.S.) degree. This degree is granted for one year of work beyond the Master of Arts.

3. Doctor of Education (Ed.D.) degree. This degree is offered only in the Division of Education. It is based upon advanced study, successful experience, and research.

Academic Information

Accreditation • Colorado State College of Education is accredited by the North Central Association of Colleges and Secondary Schools, the American Association of Colleges for Teacher Education, and was on the last published list of institutions approved by the Association of American Universities. (The Association no longer acts as an accrediting agency.)

Quarter System • The school year is divided into three quarters: Fall, Winter, and Spring. The Summer Session is held in June, July, and August.

Quarter Hour • All credit toward graduation is computed in "quarter hours." The term "quarter hour" means a subject given one day a week through a quarter of approximately eleven weeks.

Course Numbers • The course numbers are divided into five groups: (a) 1 to 99 are primarily for first and second year students; (b) 100 to 199 are primarily for third and fourth year students; (c) 200 to 299 are primarily for upperclassmen and graduate students; (d) 300 to 399 are for graduate students; (e) 400 to 499 are primarily for candidates for the doctorate.

Transcripts • Regularly enrolled students may receive the first transcript of their class records from the college without charge. Additional transcripts are one dollar each, payable in advance.

Education of War Service Personnel • All ex-service personnel entering under the veterans education and training program must present a Certificate of Eligibility valid for use at Colorado State College of Education. This certificate must be presented at the time of registration. Further information concerning enrollment may be obtained by writing the Veterans Office.

Proficiency Examinations • Proficiency examinations in certain required courses in a student's major or minor may be taken to determine whether or not the student may be excused from these courses, or to determine whether credit may be granted. The maximum credit is 15 hours.

Undergraduate Course Load • The normal undergraduate course load for a quarter is 15 hours of academic credit. This does not include the physical education activity courses required in the freshman and sophomore years. Upon the approval of the Director of Student Personnel, a maximum of 18 hours may be taken by students who have a college scholastic average of "B" or better. Extra hours for other students who have good records, but below "B," will be considered individually.

Grading System • Alphabetical grades are used: "A" indicates superior work; "B" indicates work above average; "C" indicates average work; "D" indicates work below average, but passing; "F" indicates failure. Other marks used are: "Inc." incomplete; "W" approved withdrawal; "TF" unapproved withdrawal; "WF" failing at withdrawal; "IF" condition not removed; "S" satisfactory; "U" unsatisfactory. An "Inc." must be removed before the end of the succeeding quarter in residence to yield credit. Graduating students must remove an "Inc." before the middle of the succeeding quarter.

How to Compute Grade Averages • Each of the letters of the marking system has a numerical value. The letter "A" has a value of 5 points; "B" a value of 4 points; "C" a value of 3 points; "D" a value of 2 points; and "F" a value of 1 point. If all of the student's marks were "C's" they would have a numerical value of 3. If one-half of his marks were "C's" and the other half "D's" the numerical value of his marks would be 2.5.

Scholastic Average • Regularly enrolled students are expected to maintain a scholastic average above 2.5 throughout the freshman and sophomore years, and an average above 2.75 for the junior and senior years. A minimum grade average of 2.75 is required for graduation.

Probationary Status • A student may be admitted on probation or will be placed on probation if he fails to earn in any quarter a grade average above the minimum for his class (2.5 or above for freshmen and sophomores; 2.75 or above for juniors and seniors). If his cumulative grade average for the regular academic year is not

above the minimum, he will be under academic suspension. The college reserves the right to suspend a student at any time that his record, academic or non-academic, warrants it.

Late Enrollment • No student will be permitted to enroll in a course after the first two weeks of the Fall, Winter, and Spring quarters. Registrations after the first week of the regular Summer Session must have the approval of the Director of Instruction. No late enrollments will be approved for the two-week Pre-Session. These regulations apply to new registrations and to students wishing to change programs.

Absences • Absences without acceptable excuses are not permitted. Anticipated and emergency absences should be cleared through the Department of Student Personnel. Both tardiness and absences are dealt with by the individual instructor on the assumption that each student is expected to do the full work of the class.

Withdrawal from Class • No withdrawals from class are permitted during the last two weeks of a quarter. When a student registers for a class, he is considered to be a member of that class. If he withdraws, he must have the approval of the Department of Student Personnel.

Final Examinations • A final examination in each class is to be taken by the student on the dates officially announced.

Changes in Programs • Changes in programs will be permitted without penalty until four o'clock on the Friday following registration. After that period all changes will cost one dollar. No student will be permitted to enroll in a course after the first two weeks of the Fall, Winter, and Spring quarters.

Undergraduate Program

Admission • Application for admission to the undergraduate program, which includes the freshman, sophomore, junior, and senior years, may be made on the basis of one of the following three ways:

1. A high school graduate may be admitted to the college if his high school transcript shows that he has the ability to do college work. The college does not require the high school graduate to have a specific number of credits in science, language, mathematics, English, or other subjects.

Graduates of Colorado high schools may obtain Application for Admission blanks from their high school principals or superintendents. New first-year out-of-state students may obtain the Application for Admission blanks by writing to the Director, Department of Student Personnel.

The Application for Admission blanks should be sent to the Director, Department of Student Personnel, several weeks prior to the quarter in which the student wishes to be admitted.

2. A person who is twenty years of age or over and who is not a high school graduate may be admitted by successfully completing a series of entrance examinations. The prospective student must make scores and meet the standards set by the Admissions Committee. Psychological, achievement, and English tests are used. Students admitted on this basis must take these tests at least one week before the day of registration.

3. A transfer student may be admitted if he has an acceptable academic record and good standing at the college from which he wishes to transfer. Transfer students will file with the Registrar, before their enrollment, official transcripts of all college work taken at other institutions. Transfer students will be classified by the Registrar and the chairman of the student's major division. They should write to the Registrar for blanks and instructions for transfer.

Students graduating from a junior college or transferring two years of college work may have to spend more than two years at Colorado State College of Education to complete the requirements for graduation in certain major fields. If the junior college program corresponds reasonably well to the requirements of the first two years in the same plan of study at Colorado State College of Education, graduation in two additional years is possible in most cases.

Conditions of Admission ● If an applicant's past academic record is considered inadequate, the Admissions Committee reserves the right to reject the student's application, or may admit the student on probation for one quarter only. Further enrollment beyond the probationary period will be granted only upon evidence of satisfactory college achievement.

All applicants must have good health, character, and ability to do college work.

Matriculation ● All undergraduate students enrolled for 5 quarter hours or more must complete the following requirements during their first quarter's enrollment within the regular school year: (1) complete the standardized tests (English, psychological, and achievement, which are used for student advisement and placement); (2) take health examinations; (3) have photographs taken for official files; (4) file with college a complete transcript of previous high school or college records.

Faculty Advisers ● A first-year student is assigned to a faculty adviser who helps the student plan his program of study. An upperclass student is advised by a faculty member of the student's major division.

Health Examinations ● A health examination is required before a prospective student's first enrollment. The college will provide a form on which the report of this examination is to be made. Examinations will be given annually thereafter and at other speci-

fied times in the Student Health Service by college-employed physicians.

Photographs • A college photographer will take pictures of all new students during the first week of registration and matriculation. These pictures are for official files and for the student's identification card. The cost of the photographs is included in the College Service Fee.

Eligibility • Students who do not maintain acceptable grade averages will not be permitted to participate in varsity athletics, dramatics, debate, and other extracurricular activities of the college nor are they eligible to be employed on the campus.

Minimum Residence Requirements • An undergraduate student must earn at least 45 quarter hours in residence on the campus to meet the minimum requirement for an undergraduate degree.

Graduation Requirements

Bachelor of Arts Degree (With Teaching Certificate) • The Bachelor of Arts degree with teaching certificate may be taken in one of the following fields: Fine Arts, Home Economics, Industrial Arts, Business Education, Elementary Education, Secondary Education, Music, Physical Education for Men, Physical Education for Women, English, Foreign Languages, Speech, Drama, Science (with concentrations in either Biological or Physical Science), Mathematics, History and Political Science, Social Studies.

Undergraduate Curriculum • The undergraduate curriculum consists of the following areas:

A. General Education

42 quarter hours from the areas of Humanities, English Composition, Sciences, Social Studies, General Psychology, Personal Living, Physical Education.

B. Professional Education

31 to 38 quarter hours including Psychology of Childhood and Youth, Educational Psychology, Community Life and Problems, American Education, The Elementary School or The Secondary School, Methods and Observation, Student Teaching, Philosophy of Education.

C. Broad Areas of Concentration

1. A major of 48 quarter hours and a minor of 24 quarter hours.
2. General Secondary major with three or four minors.

D. Free Electives

28 to 35 quarter hours.

Plans of Study • A student may choose one of three plans of study to obtain the Bachelor of Arts degree with teaching certificate. They are: (a) Major and Minor Plan; (b) General Secondary Major; (c) Elementary Education Major.

Bachelor of Arts Degree (With Teaching Certificate) Major and Minor Plan • In this plan of study, a major is earned in a field of specialization. A minor and sufficient electives are required to provide a broad and thorough educational background.

PROGRAM

- a. Common Courses listed on page 23.
- b. Major courses required in a field of specialization and not to exceed 48 quarter hours.
- c. One or two minors with a minimum of 24 quarter hours each outside the field of specialization. The number of minors depends upon the field in which the major is taken. Methods courses are not included in the requirements for the minor.
- d. Free electives to complete 180 quarter hours of academic credit.
- e. Six quarter hours of physical education activity courses, 3 quarter hours in the freshman year and 3 quarter hours in the sophomore year.

Bachelor of Arts Degree (With Teaching Certificate) General Secondary Major • Students who take the General Secondary Major prepare to teach several different high school subjects by taking their course work in three or four subject matter fields.

PROGRAM

- a. Common Courses listed on page 23.
- b. Minimum of 35 quarter hours in each of three subject matter fields, or minimum of 24 quarter hours in each of four subject matter fields.
- c. Sufficient electives to complete 180 quarter hours of academic credit.
- d. Six quarter hours of physical education activity courses, 3 quarter hours in the freshman year and 3 quarter hours in the sophomore year.

Bachelor of Arts Degree (With Teaching Certificate) Elementary Education Major • The Elementary Education Major prepares students to teach in the elementary school. Students who complete this major carry on a program of study in various subject matter fields as well as in the education courses required for this major.

PROGRAM

- a. Common Courses listed on page 23.
- b. Major courses listed on page 71, plus adequate preparation in content courses recommended by the student's adviser.

- c. Sufficient electives to complete 180 quarter hours of academic credit.
- d. Six quarter hours of physical education activity courses, 3 quarter hours in the freshman year and 3 quarter hours in the sophomore year.

Bachelor of Arts Degree (Liberal Arts) • The curriculum leading to the Bachelor of Arts degree in Liberal Arts is similar to programs offered in liberal arts colleges. Courses in education are not required for the degree.

Fields in which the degree may be taken are: Fine Arts, Home Economics, or a combination of the two; Physical Sciences, Biological Sciences, Mathematics, or a combination; History, or a combination of Geography, Sociology, Economics; Humanities, English, Speech, Drama, Foreign Languages, or a combination; and Business Education.

This degree is offered only in a Major and Minor plan of study. The major is earned in a field of specialization. A minor, outside of the field of specialization, and sufficient electives are required to provide a broad and thorough educational background.

PROGRAM

- a. Common Courses listed on page 24.
- b. Major courses required in a field of specialization not to exceed 48 quarter hours.
- c. A minor with a minimum of 24 quarter hours outside the major.
- d. Sufficient electives to complete 180 quarter hours of academic credit.
- e. Six quarter hours of physical education activity courses, 3 quarter hours in the freshman year and 3 quarter hours in the sophomore year.

STUDENT TEACHING

Student teaching assignments are made in the campus Laboratory School (Ernest Horn Elementary School and College High School) and in cooperating public schools in the state.

All assignments for student teaching are made with the approval of the Director of Student Teaching. Before assignments are made, students must have: (1) an average grade of "C" in major courses; (2) completed the prerequisite courses in methods and observation; (3) health, personal characteristics, and professional attitudes considered essential for successful teaching.

A student who submits required evidence of at least three years of satisfactory teaching experience may obtain exemption from student teaching. Exemptions are based on quality of teaching experience, kind of school in which experience was obtained, and scholastic standing.

Common Courses

Bachelor of Arts Degree (With Teaching Certificate) • The Common Courses listed here are required of all students who are studying for a Bachelor of Arts degree with teaching certificate.

Freshman Year

Course Number	Course Title	Hours	Credit
Hum. 1, 2, 3	The Basic Course in the Humanities	-	9
Sci. 3	Physical Science	-	3
Sci. 4	Biological Science	-	3
Sci. 5	Earth Science	-	3
Ed. 25	General Psychology and Personal Adjustment	-	5
Eng. 4a	Elementary English Composition	-	5
H.P.E. 61	Personal Living	-	5
			33
H.P.E.	Physical Education Activity Courses (see page 97)	-	3

Sophomore Year

Course Number	Course Title	Hours	Credit
S.S. 81	The Individual and His Social Relations	-	3
S.S. 82	American Life and Institutions	-	3
S.S. 83	Contemporary World Cultures	-	3
Ed. 77	Psychology of Childhood and Youth	-	3
Ed. 78	Educational Psychology	-	3
Ed. 85	Community Life and Problems	-	3
			18
H.P.E.	Physical Education Activity Courses (see page 97)	-	3

Junior Year

Course Number	Course Title	Hours	Credit
Ed. 105	American Education	-	3
Ed. 150a	Introduction to Student Teaching in the Elementary School	-	5
	or		
Ed. 150b	Introduction to Student Teaching	-	2
	and		
Ed. 150c	Methods	-	3
Ed. 214	The Elementary School	-	3
	or		
Ed. 216	The Secondary School	-	3

For a total of 11

Senior Year

Course Number	Course Title	Hours	Credit
Ed. 151	Student Teaching	-	8 to 15
Ed. 295	Philosophy of Education	-	3

11 to 18

COMMON COURSES

Bachelor of Arts Degree (Liberal Arts) • The Common Courses listed here are required of all students who are studying for a Bachelor of Arts degree in Liberal Arts. The courses will be taken in the freshman and sophomore years.

Course Number	Course Title	Hours	Credit
Hum. 1, 2, 3	The Basic Course in the Humanities	-	9
S.S. 81	The Individual and His Social Relations	-	3
S.S. 82	American Life and Institutions	-	3
S.S. 83	Contemporary World Cultures	-	3
Sci. 3	Physical Science	-	3
Sci. 4	Biological Science	-	3
Sci. 5	Earth Science	-	3
Ed. 25	General Psychology and Personal Adjustment	-	5
Eng. 4a	Elementary English Composition	-	5
H.P.E. 61	Personal Living	-	5
H.P.E.	Physical Education Activity Courses (see page 97)	-	6
			48

Graduate Program

Program • Colorado State College of Education offers three advanced programs of professional work leading to the Master of Arts degree, Specialist in Education degree, and Doctor of Education degree. Graduate study was first offered during the summer session of 1913, and the first master's degree was conferred in June, 1914. In 1929 the Board of Trustees authorized the college to provide a program leading to the doctor's degree, and in 1952 the Ed.S. (Specialist in Education) degree was approved.

Organization • Each of the instructional divisions of the college is represented on the Graduate Council. The Graduate Council is the legislative body for graduate work.

Objective • Colorado State College of Education is primarily an institution for the preparation of teachers. In accord with this fundamental objective, the Graduate School grants the teaching degrees of Master of Arts, Specialist in Education, and Doctor of Education. Before receiving one of the degrees, the student should be able (a) to identify problems, (b) to organize and evaluate evidence, and (c) to formulate and defend definite conclusions. To achieve these objectives the Graduate School expects each student to show at his graduation special competence (a) in one or more areas of knowledge (the major and minors) and (b) in independent work (field studies, theses, written reports).

General Requirements • *(Effective Date of These Rules)* • All graduate students admitted to candidacy for the master's degree after June 10, 1954, are subject to the following regulations. Classified students who have not exceeded the time limits and who have been admitted to candidacy prior to June 10, 1954, will fol-

low the rules in force at the time of their admission to candidacy as stated in the catalog of the concurrent date to the time of their registration, *with the exception of the designated paper requirement*. An adjustment of this requirement will be made for all students admitted to candidacy for the master's degree prior to June 10, 1954. A printed statement concerning these adjustments is available in the Office of the Graduate School. Doctoral students not yet admitted to candidacy will follow the rules in force as of June 10, 1954.

Admission • All students interested in graduate courses should file with the Director of the Graduate School certified transcripts of all previous academic credits at least *thirty days before registration*.

Application blanks for admission to graduate courses applicable to the degrees of Master of Arts, Specialist in Education, and Doctor of Education will be provided by the Director of the Graduate School upon request.

Admission to graduate courses does not imply acceptance as a candidate for a degree. For a statement of the requirements for candidacy see the detailed rules governing the granting of each graduate degree.

For admission to graduate courses applicable to the degree of Master of Arts, the student must hold a baccalaureate degree from an accredited college or university authorized by law to grant such a degree, and must show evidence on his undergraduate transcript of ability to pursue graduate study. *The minimum undergraduate preparation for the degree of Master of Arts is twenty-four quarter hours of basic course credit in the field of the graduate major.*

For admission to graduate courses applicable to the degree of Specialist in Education, see Page 35.

For admission to graduate courses applicable to the degree of Doctor of Education, see Page 37.

Courses for Seniors • Senior students, who are within six quarter hours of having completed the requirements for the bachelor's degree may, in their last quarter or summer session of undergraduate study, register for graduate courses and receive graduate credit for them. In all cases the student's course load will be limited and previous arrangements for admission to the Graduate School must be made with the Director of the Graduate School.

Registration and Advisement • For those students who have applied for admission and who have filed their transcripts, the Director of the Graduate School will appoint a major professor. The major professor aids the student in planning a unified program and acts as his permanent adviser. Any change in this relationship must have the approval of the Director of the Graduate School.

Students who have not filed their transcripts before registration will enroll as unclassified graduate students at the desk marked "Unclassified" until an evaluation of their transcripts is possible. When the student is admitted to full graduate standing and assigned a major professor, all courses of graduate rank taken as an

unclassified student will be credited toward the graduate degree, provided they can be made a part of the unified program.

Graduate students who are not candidates for higher degrees will register as unclassified students at the desk marked "Unclassified." However, each student is urged to plan a unified program at the beginning of his graduate experience.

A former graduate student will register directly with his major professor.

All registrations are subject to approval by the Director of the Graduate School.

Student Responsibility • The graduate student is expected to know the requirements for the degree he plans to earn. While the personnel of the Office of the Graduate School will endeavor to aid in every way possible, the responsibility for any error in his own enrollment or in the interpretation of the rules rests with the student.

All rules herein printed presuppose that the student will meet the graduation requirements in the minimum time. In some cases, however, a longer period of time may be necessary to meet the requirements.

Course Load and Credit • The maximum load for graduate credit applicable to a degree is twelve quarter hours in the eight weeks' summer session, three quarter hours in the pre-session, and fifteen hours per quarter in the regular academic year.

Courses bearing catalog numbers of 200 or above carry graduate credit.

Under certain circumstances and with the approval of the major professor, students may offer not more than eight quarter hours in courses numbered 322, "Individual Studies." A typewritten copy of the report in each "Individual Studies" course shall be filed with the Director of the Graduate School. "Individual Studies," 322, will not be counted toward meeting the requirement of one-third of the graduate credit which must be in courses open only to graduate students. Registrations for "Individual Studies," 322, and Practicums (Ed. 301, Ed. 345, Ed. 401, Ed. 445) are not permitted in the pre-session or in absentia.

Graduate credit is not given for any courses taken by correspondence or by extension.

Grading System • Alphabetical grades are used: "A" indicates superior work; "B" indicates work above average; "C" indicates average work; "D" indicates work below average, but passing; "F" indicates failure. Other marks used are "Inc." incomplete; "W" approved withdrawal; "TF" unapproved withdrawal; "WF" failing at withdrawal; "IF" condition not removed; "S" satisfactory; "U" unsatisfactory. An "Inc." must be removed before the end of the succeeding quarter in residence to yield credit. Graduating students must remove an "Inc." before the middle of the succeeding quarter.

Scholastic Average • A minimum grade average of 3.7 (B-) or better is required for graduating with a graduate degree.

Late Enrollment • No student will be permitted to enroll in a course after the first two weeks of the fall, winter, and spring quarters. Registration after the first week of the regular summer quarter must have the approval of the Director of Instruction. No late enrollments will be approved for the two-week pre-session. These regulations apply to new registrations and to students wishing to change programs.

Changes in Programs • Changes in programs will be permitted without penalty until four o'clock on the Friday following registration. After that period all changes will cost one dollar. No student will be permitted to enroll in a course after the first two weeks of the fall, winter, and spring quarters.

Withdrawal from Class • No withdrawals from classes are permitted during the last two weeks of a quarter. When a student registers for a class, he is considered to be a member of that class. If he withdraws, he must have the approval of the Director of the Graduate School.

English Style-Form Standards • The student's written material must conform with the "English Style-Form Standards." This bulletin is available for purchase in the College Bookstore.

The "300" Course Requirement • In the first quarter in residence all graduate students are required to register for the "300" course, "Introduction to Graduate Study." In this course standards for graduate study, research methods, evaluation of printed research, bibliographical tools and other items will be emphasized. In connection with this course English Usage Tests will be required and such other objective tests as the Graduate Council may deem important for beginning graduate students. A typewritten report is also required (see page 31).

Professional Requirements • All students receiving a graduate degree from Colorado State College of Education must have at least 30 quarter hours of undergraduate and/or graduate credit in education and educational psychology regardless of the area in which they major. Students who do not have this professional requirement will be held for the following courses or equivalents: Ed. 25, General Psychology and Personal Adjustment, 5 hours; Ed. 77, Psychology of Childhood and Youth, 3 hours; Ed. 78, Educational Psychology, 3 hours; Ed. 105, American Education, 3 hours; Ed. 150a, Introduction to Student Teaching in the Elementary School, 5 hours or Ed. 150b, Introduction to Student Teaching in the Secondary School, 2 hours and Ed. 150c, Methods, 3 hours; Ed. 214, The Elementary School or Ed. 216, The Secondary School, 3 hours; Ed. 151, Student Teaching, 8 hours; Ed. 295, Philosophy of Education, 3 hours. This makes a total of 33 hours in education.

An evaluation of each undergraduate transcript will be made and the student will be advised as to what deficiencies he has in this professional requirement.

The college grants with each degree a Life Certificate to teach in the State of Colorado. The state certification law requires 30 quarter hours of professional preparation of which six quarter hours must be in "practice teaching."

English Usage Requirement • 1. The English Usage Tests now required in connection with the "300" and "400" courses will be given the first week of the summer session or each quarter.

2. For those students who fail to make the twentieth percentile on the English Usage Tests, a remedial writing laboratory will be required for no credit.

3. For those students who fall in the percentile range of 21-40 of the English Usage Tests, the instructor in the remedial writing laboratory will judge the student's composition and will determine whether the student shall be required to take the remedial writing laboratory.

4. The students falling in the 41st and above percentile may be required to enroll in the remedial writing laboratory if in the judgment of the instructor of the laboratory the student's composition is poor.

5. For the remedial writing laboratory, a materials and service charge of \$10 will be required. This charge is in addition to the regularly published charges of the college.

6. This program includes not only the new prospective students, but also all previous students who have not made the 20th percentile or above on the English Usage Tests or who have not made up this English deficiency.

7. When in the judgment of the instructor of the remedial writing laboratory the student's written work has markedly improved, the English Usage Tests will be repeated and if the student's score falls in the 30th percentile or above and his essay is acceptable, he will be judged to have met the requirement as stated in the Graduate Bulletin: "has satisfactorily demonstrated proficiency in English Usage."

8. Time for and room assignment of the remedial writing laboratory will be announced in the mimeographed instructions for registration and on the graduate bulletin board in Cranford Hall.

Time Limit for Written Work • All written work such as theses, practicums, and research studies must be completed within two years after the fulfillment of course work.

Graduate Credit in Off-Campus Classes • The following policy applies to off-campus classes for graduate credit when the courses are offered by members of the resident faculty.

Students wishing to apply credit in off-campus courses toward a master's degree must conform to the following procedure:

First: They must be admitted to the Graduate School. This may be done (a) by filling out admission blanks received from

the Office of the Graduate School, (b) by filing a certified copy of all undergraduate work taken previously (graduates of CSCE need not file a certified copy of their credentials as they are already in the files of the college), and (c) by obtaining a notification from the Director of the Graduate School that they have been admitted.

Second: All courses must be listed in the official college catalogs as graduate courses. This means courses which are identified by numbers of 200 or above.

Third: The student must abide by all other requirements set forth by the instructor of the course and the Graduate Council.

Fourth: Not more than eight hours credit of off-campus work may apply to a master's degree.

Master of Arts Degree

The degree of Master of Arts is offered in these seven instructional divisions of the college with majors in each division as follows:

DIVISION OF THE ARTS—Industrial Arts, Fine Arts, Home Economics;

DIVISION OF EDUCATION—Elementary Education, Educational Administration**, Secondary Education, Educational Psychology and Guidance, Business Education, Supervision in Elementary Education**;

DIVISION OF HEALTH AND PHYSICAL EDUCATION—Physical Education, Health Education, Supervision of Physical Education**;

DIVISION OF MUSIC—Music, Supervision of Music**;

DIVISION OF THE HUMANITIES—English, Speech and Drama;

DIVISION OF THE SCIENCES—Biological Sciences, Mathematics, Physical Sciences, Science Education;

DIVISION OF THE SOCIAL STUDIES—History, Social Studies.*

Admission to Candidacy • Action on admission to candidacy for the degree of Master of Arts will be taken after the student (1) has been in residence for at least one quarter or summer session earning at least twelve hours of graduate course credit of which 4 hours must be in the "300" course (Introduction to Graduate Study), (2) has achieved a 3.7 grade average or better, (3) has satisfactorily demonstrated proficiency in English Usage (see page 28) and (4) has satisfied all the classification requirements of the Graduate Council, such as undergraduate and professional prerequisites.

*In the Division of the Social Studies, besides the major in History, a teaching major in "Social Studies" is offered. An undergraduate prerequisite of 44 hours in the Social Studies is required of which 12 hours must be in the area of the concentration on the graduate level. The student must present a graduate concentration of 24 hours. Of the remaining 21 hours required for the master's degree, at least 9 hours must be in the field of the Social Studies outside the area of concentration. Concentrations are allowed in History or Political Science.

**These majors require two years of actual teaching experience as a prerequisite.

The student failing to meet the above requirements will be continued on probation for a second quarter. In the event he does not meet requirements for candidacy at this time, he will be informed that no more graduate credit earned by him will be applicable to a master's degree.

Time Requirements • The minimum time requirement for any degree in the college is one academic year or thirty weeks.

The maximum time limit for completion of the graduate program for the master's degree is two full calendar years for students attending during the regular college year, or seven summers if the student attends only in summer sessions. Graduate work that is ten years old will not be counted toward fulfillment of degree requirements.

Graduate work exceeding the time limit, and less than ten years old, will be reduced by one half. If the time limit is to be exceeded, all necessary adjustments must have the approval of the Director of the Graduate School.

Transfer of Credit • In some cases, but only after the student has been admitted to candidacy for the degree of Master of Arts, there may be a transfer of a small amount of graduate credit earned in an accredited college or university regularly granting the master's degree. *Such transfer of credit may reduce load, but it will not reduce the residence requirements, i.e., three full summer sessions or their equivalent (thirty weeks).* All transfer of graduate credit is made only upon the authorization of the Director of the Graduate School, and upon the written petition of the student. All transferred credit must have been earned within the time limits prescribed for the master's degree. Graduate credit is not transferable if earned in off-campus classes or in courses classified as "extension." Transferred credit may not be used to make up "D" or "F" grades.

Minimum Requirements for the Major • For the degree of Master of Arts, the student must have a minimum of sixty-four quarter hours of graduate and undergraduate credit in the major field. At least 24 quarter hours of graduate credit for the degree of Master of Arts must be in the field of the major.

Whenever possible within the framework of the above rules, the student whose undergraduate record shows a high specialization in a few areas at the expense of general cultural background in the so-called liberal arts and sciences may be required by his major professor upon the recommendation of the Director of the Graduate School to present part of his graduate work in the areas of the liberal arts and sciences.

Thesis for the Degree of Master of Arts • (*Under Plan A*) • It shall be the prerogative of the major professor in consultation with the Director of the Graduate School to approve those students who may write a thesis as a partial fulfillment of the requirements for the degree. Such approvals will be given after the student has completed at least twelve hours of course credit of which the "300" course will represent four hours.

Students not writing theses will be under Plan B.

All graduate students working for the master's degree are required to present a typewritten report of considerable length which will demonstrate the research techniques taught in the '300' course, "Introduction to Graduate Study." This report will be approved and evaluated by the instructor of the "300" course and then sent to the major professor for perusal only. On the basis of this report and the results of the English Usage Tests, the major professor will decide whether the student is to be invited to write a thesis as a partial requirement for the master's degree.

Plan A in Detail • (*For students approved for thesis*) • All general requirements for a graduate degree heretofore mentioned in this bulletin apply to this plan. In addition, the student shall:

1. Earn a minimum of 45 quarter hours of graduate credit, one-third of which shall be in courses in the student's major or concentration, which are open only to graduate students.

2. Plan with the major professor a unified program which will contain in the first quarter or session in residence the required "300" course and a graduate course with the major professor.

3. If approved for thesis, register for four hours of thesis credit (course 399) in each of the second and third quarters or summer sessions in residence. Registration for theses in absentia or in the pre-session will not be permitted. Acceptance of approval to present a thesis must be made by the student not later than the second quarter or session in residence and a typewritten outline of the proposed thesis approved by the major professor and the Director of the Graduate School must be filed in the Office of the Graduate School not later than the end of the sixth week of the second quarter or session in residence.

4. At least two weeks before the end of the quarter in which he expects to graduate, present to the Director of the Graduate School four copies of the thesis in final typed form, approved and signed by the major professor and ready for the Director's approval and signature. The thesis should be in the hands of the major professor for final reading by the beginning of the fourth week of the final quarter or session in residence. The thesis shall conform to the standards of the Graduate School as given in the "English Style-Form Standards."

After being signed and bound, three copies of the thesis become the property of the college and one is retained by the student. The original ribbon copy and the first carbon copy are filed in the college library; the third copy is delivered to the student's major professor. A charge of \$8 is made for binding the four copies. Since the thesis is the property of the college, any use made of the data therein for publication purposes must have the approval of the Director of the Graduate School before publication.

5. Provide with each bound copy of the thesis an abstract of the study; in addition an extra copy of the abstract shall be filed with the student's record in the Office of the Graduate School.

6. Pass a written comprehensive examination in the major or concentration. The major professor will be in charge of the examination and will announce the time it is to be given. The student's examination paper, after being evaluated by the major professor, shall be filed in the Office of Graduate School at least ten days before the end of the last quarter or session in residence.

In case of failure to pass the comprehensive examination or any part of it, the student may be permitted, upon written request of the major professor, to retake the test. At least one academic quarter or an eight weeks' summer session must intervene before the examination will be given again. A special examination fee will be charged for this additional test.

7. Apply for a list of graduation requirements not later than 30 days prior to the quarter or session in which the student expects to graduate.

Plan B in Detail • All general requirements for a graduate degree heretofore mentioned in this bulletin apply to this plan. In addition, the student shall:

1. Earn a minimum of 45 quarter hours of graduate credit, one-third of which shall be in courses in the student's major or concentration which are open only to graduate students.

2. Plan with the major professor a unified program which will contain in the first quarter or session in residence the required "300" course and a graduate course with the major professor.

3. Present the typewritten report required in the "300" course which shall conform to the standards as given in the "English Style-Form Standards."

4. Pass a written comprehensive examination in the graduate major or concentration. The major professor will be in charge of the examination and will announce the time it is to be given. The student's examination paper will be evaluated by the major professor and filed in the Office of the Graduate School at least ten days before the end of the last quarter or session in residence.

In case of failure to pass the comprehensive examination or any part of it, the student may be permitted, upon written request of the major professor, to retake the test. At least one academic quarter or an eight weeks' summer session must intervene before the examination will be given again. A special examination fee will be charged for this additional test.

5. Apply for a list of graduation requirements not later than 30 days prior to the quarter or session in which the student expects to graduate.

Creative Project in Lieu of a Thesis • In harmony with the policies of many of the best institutions of higher learning, the Graduate Council will recognize a creative project in the field of fine arts, literature, and music as the equivalent of the conventional type of thesis for the degree of Master of Arts. The student may attempt this type of research only after he has successfully completed the "300" course, (Introduction to Graduate Study) and

has satisfied his major professor that he has reached graduate level in creative ability. Upon the completion of the project, the student shall submit a detailed explanation in the usual written form of the thesis report. In this explanation the student shall give a careful account of his techniques, of the materials from which his problem emerged, and an explanation of the problem's contribution to contemporary thought and life; the mere presentation of the creative project itself is not sufficient. The student is required to observe all the other provisions previously listed for those master's candidates who are writing theses.

Specialist in Education (Ed.S.)

The Advanced Graduate Diploma has been discontinued. Those students who have already started on that program will be permitted to complete the requirements for the diploma, or if qualified, they may change to the program for the Ed.S. degree without loss of credit. Those students who wish to avail themselves of this opportunity should arrange for the change by consulting the Director of the Graduate School.

Limitations on Enrollment for Specialist Degree

1. The Graduate Council reserves the right to limit at any time the number of students permitted to enroll and work for the Ed.S. degree.
2. Students holding both the A.B. and A.M. degrees from Colorado State College of Education will not be permitted to earn the Ed.S. degree here except by special permission of the Graduate Council.
3. It will be understood that the first summer session or regular quarter in residence is a trial session or quarter and that the Graduate Council reserves the right to discourage any student from continuing for the Ed.S. degree.
4. Members of the faculty of Colorado State College of Education are not permitted to earn this degree here except by special permission of the Graduate Council.

Basic Philosophy for New Degree

1. The Ed.S. degree program shall prepare one to be what the name implies, a specialist in some area of education. It is not to be a program of more courses and more credits in the same divisional patterns as those usually found in the present master's and doctor's programs.
2. Each applicant for admission to the program will be considered as an individual case in terms of the area in which he

wishes to specialize, his background and experience preparing him for such specialization, and the possibility of a program being provided to offer him the opportunity he desires. The applicant will be expected to have a very clear idea of a purpose that is neither trite nor trivial. The possession of a master's degree will be required.

3. The programs of ordinary majors and minors such as are used in the master's and doctor's degree programs are not acceptable for this degree since they are in general areas. It would be somewhat meaningless to become a specialist in general, e.g.: "Specialist in Elementary Education." Instead, a student might wish to specialize in areas similar to the following:

- a. The Supervision of Student Teaching.
- b. The Supervision of Science Instruction.
- c. Conservation Education.
- d. Basic Programs in the Secondary School.
- e. Reading in the Elementary School.
- f. Guidance in the Elementary School.
- g. Testing in the Elementary School.
- h. Consultant in School Buildings.
- i. Speech Correction.
- j. Teaching of Spelling and Grammar.
- k. Academic Records.
- l. Curriculum Specialization.

It is not presumed that the college has the facilities, offerings, or staff to support all of the areas that might be suggested by the applicants. Many, if not all, of the programs will cut across divisional and subdivisional lines.

This new program will be regarded as a terminal one and the credits earned will not be transferable to the doctorate program; nor will admission to this program be regarded as an automatic admission to work on the doctorate.

Admission

1. The applicant for admission to this degree program will be required to present a statement of his objective in specializing, a summary of his educational experience, and complete certified transcripts of undergraduate and graduate study. Application blanks for admission are available in the Office of the Graduate School.

2. Upon the receipt of the above documents, the Director of the Graduate School will appoint a committee of at least two representatives of the possible instructional areas included in the proposed objective. This committee shall perform three functions:

- a. Decide whether the specialization interest of the applicant is acceptable and could be met by the college.
- b. Evaluate the applicant's qualifications for undertaking the proposed study.

- c. Outline a basic plan for the student's year of study, course offerings, research, practicum, etc.

This committee's actions will be referred to and reviewed by the Director of the Graduate School who will invite the applicant to begin his work and will acquaint him with the proposed plan of study or notify him of the negative action and reasons therefor. An adviser will be appointed who will be chairman of the supervisory committee.

3. To be considered for this program, all applications and supporting transcripts must be submitted at least thirty days before the beginning of the quarter or summer session in which the student plans to start his study.

4. Because of the necessity of having time to outline the basic plan of study, no applicant will be permitted to come in person and enroll in the Ed.S. degree program without having been approved and invited as stated above.

Prerequisite Requirements for Admission

1. The applicant must possess a master's degree.
2. The applicant must have 30 or more quarter hours in education and psychology.
3. The applicant must have an adequate academic background in the areas involved in his plan of specialization. If inadequate, the adviser and the supervising committee may require course work in addition to the requirements of the Ed.S. degree.
4. The applicant will be required to take the English Usage Tests which are required of all graduate students. Those students who do not make a creditable score (40th percentile or above), and who do not present an acceptable essay, may be discouraged from continuing work applicable to this degree.
5. The applicant must have an acceptable undergraduate and graduate scholastic average (B or better).
6. Two years of successful teaching experience is a prerequisite requirement for admission to work for the Specialist in Education degree.

Specific Requirements for Graduation

All the general requirements for a graduate degree heretofore mentioned in this bulletin apply to this plan. In addition the student shall:

1. Earn a minimum of 45 graduate quarter hours on the campus at Greeley. There will be no transfer of credit. Twenty-four quarter hours of the graduate credit, which will include the credit for the required practicum, shall be earned in courses open only to graduate students (courses numbered 300 or above).

Specialized interests of the student for which no regularly scheduled courses are available will be cared for through Individual Studies (322), Practice in School Administration (345), Practicum (in areas other than administration) (301), and the required Practicum (401).

2. Enroll in the "400" course if he has not had the equivalent in his previous graduate work.

3. Present at least one practicum (401) representing his major interest and for which eight quarter hours of credit will be given. This required practicum shall be enrolled for in the first and second quarters in residence. A written plan for the required practicum shall be filed in the Office of the Graduate School by the end of the eighth week of the first quarter or summer session in residence and must have been approved by the supervising committee.

Enrollments for the practicums or individual studies will not be permitted in the pre-session or in absentia.

At least two weeks before the end of the third quarter or session in residence, four typewritten copies of the report of the practical activity which has been approved by the student's adviser and the supervisory committee shall be filed in the Office of the Graduate School. The four copies will be bound. The original and first carbon copy will be placed in the library, the second carbon copy will be delivered to the faculty adviser, and the third carbon copy will be sent to the student. A binding fee of \$2.00 per copy will be charged. The reports become the property of the college. Any use of them for publication purposes must have the prior approval of the Director of the Graduate School. The report shall conform to the "English Style-Form Standards" of the college.

4. Be in residence for a minimum of one academic year, or three summer sessions of ten weeks, or four eight-week summer sessions.

5. Pass a written comprehensive examination over his specialty and his practicum, and meet such other final requirements as his committee may prescribe. This written examination, when approved, shall be filed with the student's records in the Office of the Graduate School at least ten days before the date of graduation. The adviser shall make all arrangements for this final examination.

6. Complete all requirements for the degree within a period of two academic years or five summer sessions.

7. Apply for graduation requirements not later than 30 days prior to the quarter or session in which the student expects to graduate.

Doctor of Education Degree

Prior to the fall of 1948, the program for the degree of Doctor of Education was exclusively one of alternating on-campus and off-campus activities and was considered as an in-service type of advanced professional education. The program was divided into two parts. One called for the pursuance of certain courses on the

campus during the summer sessions. The other planned for practical research projects to be completed while the student was engaged in professional activities. The Graduate School will continue this in-service type of program and will make ample provision for an adequate doctoral program of courses during the summer session. Hereafter this exclusively summer program will be designated as Plan I.

Beginning with the fall quarter of 1948, students were permitted to register during the academic year for work applicable to the doctorate provided there was an adequate number of course offerings and the student was approved for such work beforehand by the Director of the Graduate School. This plan of two academic years in residence will be designated as Plan II. Under this plan the research studies will be registered for as a part of the regular course load and will be completed on the campus.

Another program designated as Plan III requires residence for three summer sessions and one academic year. Under this plan the research study will be registered for as a part of the regular academic load and will be completed on the campus.

Admission • For admission to graduate courses applicable to the degree of Doctor of Education, the student must possess a master's degree from an acceptable graduate school, apply for admission and present certified transcripts of all previous academic credits at least thirty days before registration. If these records do not show a high quality in past academic credits (B or better), the applicant may be denied admission. Sixty-four quarter hours in the fields of education and psychology are prerequisites for admission to courses applicable to the doctor's degree.

All students enrolled in courses leading to the doctor's degree are admitted on trial until the Graduate Council is able to determine their qualifications for admission to candidacy for the degree. No applicant will be permitted to come in person and expect to enroll in the Ed.D. program without having been approved and admission cleared as stated above.

Limitations on Enrollment for the Doctorate

1. The Graduate Council reserves the right to limit at any time the number of students permitted to enroll for work applicable to the doctorate.

2. It will be understood that the first summer session or regular quarter in residence is a trial session or quarter and that the Graduate Council has the right to discourage any student from continuing for the doctorate.

3. Students holding the A.B. and the A.M. degrees from Colorado State College of Education will not be permitted to register for this degree.

4. Members of the faculty of Colorado State College of Education are not permitted to earn the doctorate here except by special permission of the Graduate Council.

5. Two years of successful teaching experience is a prerequisite requirement for admission to work for the doctor's degree.

Course Program • Each student selects an area of specialization (major) in the field of education, and a supporting area (minor) in education. The research study will be in the area of the student's major.

In the first summer session in residence all students enrolled for courses leading to the doctor's degree must enroll for the course, "Introduction to Graduate Study" (Ed. 400), unless they have already had its equivalent on the graduate level. In connection with the "400" course, English Usage Tests, an objective test in education and psychology and a written report will be required. All new students are required to take these two tests and present a written report even though they are not required to enroll for Ed. 400.

The written report should be of considerable length and should demonstrate the research techniques taught in the "400" course. This required report will be graded by the instructor of the "400" course and referred to the major professor for perusal only.

One-third of the work applicable to the doctor's degree must be in courses open only to graduate students (courses numbered 300 or above). Registration for the research study is not included in this requirement. Only graduate courses taught by members of the faculty with an earned doctor's degree will apply to the Ed.D.

A maximum of 24 quarter hours of graduate course credit may be taken outside the field of education provided the student enrolls in graduate courses taught by members of the faculty with the earned doctor's degree and that the plan for such work is approved jointly by the Director of the Graduate School and the major professor.

Majors: Educational Administration, Educational Psychology and Guidance, Elementary Education, Secondary Education.

Minors: All the above fields, Curriculum, Higher Education, Philosophy of Education.

General Program • By petition to and approval of the Director of the Graduate School the student may plan a general program in education in which he will select three areas in education and psychology instead of a major and a minor.

Research Studies • Normally one research study is required. The student may receive eighteen quarter hours of credit for the study. The student will pay the research fee at the time the outline of the study is presented. The research fee is in addition to the regular tuition fees.

The preliminary outline of the study shall be under the supervision of the major professor and a research and examining committee. This committee will consist of the major professor as chairman, a member of the faculty of the Division of Education representing the student's minor, a second member from the Division of Education, and one member who shall be the representa-

tive of the faculty and who is not a member of the Division of Education. Normally, this committee will be the student's committee throughout his work toward the doctorate. It will be appointed by the Director of the Graduate School and the major professor, both agreeing on the membership of the committee.

Upon the recommendation of the major professor, and with the approval of the Graduate Council, a candidate may write, in lieu of one research study, two studies for nine hours credit each.

At all times the Graduate Council reserves its prerogative of re-evaluating the research studies.

Candidacy for the Degree • To be eligible for formal admission to candidacy for the degree of Doctor of Education, the student shall have earned at least 36 quarter hours of resident graduate credit in the major and minor with better than a "B" average, shall have passed satisfactorily the comprehensive examination, shall have presented an approved outline for the research study, and shall have completed all classification requirements. As a part of the classification requirements, the Graduate Council may require the student to furnish records of acceptable scores on standardized intelligence tests.

Admission to candidacy will be based upon the evidence available: (1) from staff members with whom the student has studied on this campus; (2) from the official transcripts concerning the type and quality of the student's accomplishments in other institutions; (3) from the results of the comprehensive examination, the English Usage Tests, an objective test in education and psychology; and (4) an acceptable outline for the research study. Admission to candidacy will be by action of the Graduate Council upon recommendation of the student's major professor.

Time Requirements • The maximum time limit for earning the doctor's degree is eight summers for those enrolled only in the summer sessions. For those selecting the suggested year program, the time limit is five calendar years. In the event of a manifest hardship delay which exceeds the time limit, the candidate may petition the Graduate Council for an extension which may be granted under such provisions as determined by the Council.

Residence Requirements • The minimum residence time requirement for the degree of Doctor of Education is six regular summer sessions of full-time study, or their equivalent, for those enrolled only in the summer session. For those enrolled during the regular year, the minimum residence requirement will be six regular quarters of full-time study.

Registrations in the pre-session in a course open only to doctoral candidates will be counted as meeting this residence time requirement only when the student is enrolled in the summer session immediately following the pre-session.

Transfer of Credit • Transfer of credit to the extent of twelve quarter hours may be granted toward the doctorate, but in no case will this transfer of credit reduce the residence requirements as given

above. Transfer of credit does not take place until the student has been admitted to candidacy for the degree and then only upon the authorization of the Director of the Graduate School. Any such transfer of credits will be subject to the following rules: (1) that it may be made an integral part of the student's total plan; (2) that it is of excellent quality; (3) that it was earned on the campus of an institution offering the doctor's degree and on the last approved list of the Association of American Universities; (4) that it was earned within five years preceding the date of the student's admission to candidacy for the doctor's degree at Colorado State College of Education.

The Graduate Council reserves the right to suggest to doctoral students the advisability of earning twelve quarter hours of course work on the campus of another institution which was on the last approved list of the Association of American Universities and which offers the doctorate. Off-campus and extension classes will not be included in this suggestion and only those courses previously approved by the major professor, the research and examining committee, and the Director of the Graduate School will be applicable to the degree. The total number of hours earned away from the campus or any transfer cannot exceed twelve quarter hours.

Advisement ● Upon receipt of a statement of the prospective student's field of interest, the Director of the Graduate School will assign him to a member of the faculty, who will act as the major professor for the first quarter and with whom the student will register. This assignment will become permanent automatically unless the major professor or the student makes a written request for a change.

Responsibility of the Major Professor ● It shall be the responsibility of the major professor to advise the student as to the course program in the major and minors, research studies, and the examination.

Research Professor ● At the request of the major professor, a research professor may be appointed for directing a particular research study. When such an appointment is made, the research professor has all the responsibilities and the prerogatives of the major professor in regard to that particular research study.

Specific Requirements ● In addition to all the general requirements for a doctor's degree heretofore mentioned the student shall:

1. Earn a minimum of 90 quarter hours of graduate credit beyond the master's degree. Of this credit 24 hours must be in courses open only to graduate students.
2. Be in residence on the campus of Colorado State College of Education at least six full summer sessions, or two academic years or their equivalent.
3. Present one research study for which the student may receive 18 quarter hours of credit. This study fully approved must be filed in the Office of the Graduate School at least ten days before graduation.

4. Pass satisfactorily the following examinations in addition to the usual course examinations:

(a) Comprehensive examination in major and minor. This examination will take place normally after the student has successfully completed, with better than a "B" average, 36 quarter hours of full-time course work in both the major and minor fields. The examination will be both written and oral and will be comprehensive in nature, covering both major and minor fields. It is the duty of the student to present a written request to the Office of the Graduate School for the examination. The major professor must approve in writing this request before any time will be set or the research and examining committee will be appointed. This committee will be appointed by the Director of the Graduate School and the major professor, both agreeing on the membership of the committee. This committee will consist of the major professor as chairman, a member of the faculty of the Division of Education representing the student's minor, a second member from the Division of Education, and one member who shall be the representative of the faculty and who is not a member of the Division of Education. Normally this committee will be the student's committee throughout his work toward the doctorate. The Director of the Graduate School will set the time for the examination. The written examination in the major will be given by the major professor and in the minor by the member of the Division of Education who regularly teaches courses in the minor and who is a member of the research and examining committee.

The written examinations will be given before the oral and will be available to all members of the research and examining committee prior to the oral examination and finally shall be filed in the student's folder in the Office of the Graduate School. The members of the research and examining committee will evaluate the written and oral examinations as follows:

(1) Satisfactory.

(2) Unsatisfactory with the privilege of additional examinations for which a fee will be charged. One quarter or summer session must intervene before the examination may be given again.

(3) Failure.

In case of failure the student will have eliminated himself from further work applicable to the doctorate and may not present himself for further examinations.

(b) Oral examinations in defense of the research study. When a student has satisfied his research and examining committee that he has completed a research study in a satisfactory manner and in accord with the "English Style-Form Standards" of the college, he shall defend his research in an oral examination before his research and examining committee. *The research study shall be complete in every detail and ready for the final typewritten copies to be made before the student or the major professor may ask the Director of the Graduate School to set the date for the oral examination.* A vita is required for each copy of the research study.

5. Pay \$40 for the publication of each research study. The research study is microfilmed and a 1500-word abstract of the study is lithoprinted. For the purpose of publication the student files in the Office of the Graduate School two extra copies of the abstract of each study. This abstract cannot be more than 1500 words and must include a vita. These are in addition to the copies of the abstract which are bound with the typewritten copies of the research studies. The student receives 150 copies of the lithoprinted abstract and a copy of the annual volume of all abstracts submitted during the year.

6. Pay \$2 per copy for the binding of each research study. At least four copies of each research study, including an abstract in each study, are required to be bound. These copies become the property of the college. After being bound, the original ribbon copy and the first carbon copy are filed in the college library, while the third copy is delivered to the student's major professor. Any use of the study for publication purposes must have the approval of the Director of the Graduate School prior to publication.

7. Apply for final graduation requirements not later than 30 days prior to the session or quarter in residence in which the student expects to graduate.

Division of Air Science and Tactics

Air Force ROTC was first established in 1946 in leading colleges and universities as a part of the Army's ROTC program. Formal control of its own ROTC program was assumed by the Air Force at college level on July 1, 1949, and introduced at Colorado State College of Education in the Fall quarter of 1951. The Air Force ROTC program is the primary source of junior officers for the Air Force today.

The Air Force ROTC program of instruction is integrated with the regular college academic degree requirements to permit the student to receive undergraduate credit for all Air Science courses. Upon successful completion of the Air Force ROTC program and attainment of a degree, the student upon the recommendation of the Professor of Air Science and Tactics may be offered a reserve commission as Second Lieutenant or a Certificate of Eligibility for a commission as Second Lieutenant in the United States Air Force Reserve. If called to duty as a reserve officer, the student has an opportunity to apply for a regular commission in the United States Air Force. Physically qualified commissioned Air Force ROTC graduates are eligible to apply for pilot or aircraft observer training in the grade of Second Lieutenant with all pay and allowances of that grade. Present Air Force monthly pay for a Second Lieutenant is \$355.68 if married and \$338.58 if single. A Second Lieutenant undergoing flight training receives an additional \$100.00 per month.

Purpose: The purpose of the Air Force Reserve Officers' Training Corps program is to supplement the educational background of college graduates to the extent that, in addition to their civilian profession, such graduates will also be fully qualified to serve as officers in the United States Air Force and its related reserve components.

Objectives: 1. To develop in each student a high degree of leadership and those attributes of character and personality essential in Air Force officers and American citizens.

2. To provide each student with the basic knowledge and understanding of our national defense program and the organization and operational problems and principles of the Air Force.

3. To qualify graduates of the Air Force ROTC program to perform the duties of junior officers in the Air Force.

General: The Air Force ROTC program consists of academic courses which normally cover a four-year period of study. The freshman and sophomore AFROTC courses are commonly referred to as the "Basic Course" and are required for all incoming male freshmen. The junior and senior AFROTC courses are commonly referred to as the "Advanced Course" and enrollment in this course is optional and highly selective.

Enrollment in Air Science courses will normally be in the order of their numerical designation. The class standing of the student will normally limit his enrollment as follows:

Freshmen	- -	AS	1a	1b	1c
Sophomores	- -	AS	2a	2b	2c
Juniors	- - -	AS	101a	101b	101c
Seniors	- - -	AS	201a	201b	201c

Exceptions to the above enrollment program may be approved by the Professor of Air Science and Tactics.

Once a student enrolls in either the Basic or Advanced Course, completion of that two-year course becomes a prerequisite for graduation.

A complete distinctive blue Air Force uniform will be issued, on a loan basis, to each student enrolled in the AFROTC program.

Textbooks are also issued, on a loan basis, to each ROTC student.

Deferment: Immediate deferment for students enrolled in the AFROTC program and in good standing is permitted by the National Selective Service Act. This is made possible by the need of the Air Force for college graduates with reserve commissions. This deferment, under present Department of Defense policies, will remain in effect should a national emergency arise.

To qualify for an AFROTC deferment a student must willingly assume the following obligations:

1. To enroll in, and satisfactorily complete, the four-year AFROTC course of instruction (contingent upon remaining in school).

2. Upon graduation and completion of the AFROTC course, to accept and retain in an active status, as a member of a regular or reserve component, for a period of eight years, a reserve commission in the United States Air Force.

3. After graduation to serve on active duty for a period of not less than two years if called by the Secretary of the Air Force.

Deferment of AFROTC students will be terminated if the student:

1. Fails to remain in good standing in either his military or academic courses.

2. Fails to demonstrate proper and sufficient aptitude.

3. Fails to enroll in an AFROTC course during any quarter in which he normally is expected to be in attendance.

4. Fails to attend summer camp when ordered to do so.

Basic Course • All incoming male freshmen are required to enroll in and satisfactorily complete (with exceptions as listed below) the Basic AFROTC Course which requires attendance at military classes three times a week.

Transfer students with 45 or more quarter hours credit are not required to enroll in the Basic Course. Transfer students may enroll in AFROTC courses on an optional and selective basis if they are found to be fully qualified.

Enrollment in the Basic Course is not required of freshman students who have served on active duty for a period of one year or more with any branch of the armed forces.

Freshman students in any one of the following categories will not be permitted to enroll in AFROTC courses and the requirement for completion of the Basic Course as a prerequisite to graduation will be waived in their case:

1. Non-citizen of the United States.

2. Physically unfit.

3. Over 23 years of age.

4. Record of previous convictions by military or civil court.

Students who have previously completed three years of Junior ROTC (high school) will be excused from the requirement to enroll in the Air Science I courses. Such students will be expected to enroll in, and complete, the Air Science II courses.

Veterans desiring to enroll in the AFROTC program will be excused from certain Basic Course requirements as deemed appropriate by the Professor of Air Science and Tactics.

The Basic Course in the Air Force ROTC program is of two years' duration and includes Air Science (AS) 1a, 1b, 1c, 2a, 2b, 2c. Completion of the Basic Course, or credit for equivalent training, is a prerequisite to enrollment in the Advanced AFROTC Course.

The Air Force ROTC freshman enrolls in one of the following courses each quarter: AS 1a, 1b, 1c. The sophomore enrolls

in one of the following courses each quarter: AS 2a, 2b, 2c. One of the three hours of attendance required each week is devoted to outdoor drill instruction. One hour academic credit is allowed for each of the above Air Science courses. The Basic Course is designed to establish an optimum foundation for the development of an Air Force officer and to develop in the student an awareness and understanding of our national defense program and the role of military aviation.

Advanced Course • The Advanced Course is a two-year course of instruction with emphasis placed on subjects which will develop in the student a high growth potential as an Air Force officer. Each quarter of study in the Advanced Course requires attendance at 5 hours of instruction per week. Academic credit allowed for Advanced Air Science is 3 quarter hours each.

Eligibility Requirements • To be eligible for enrollment in the Advanced Course the student must submit an application to the Professor of Air Science and Tactics. This application will include:

1. Documentary evidence of completion of the Basic Course or of equivalent training. (Veterans will submit a photostatic copy of discharge.)
2. Documentary evidence of age. (Applicants cannot be over 25 years of age upon entrance into Advanced Course.)
3. A statement that student will attend an Air Force ROTC summer camp of four weeks' duration during his summer vacation between the junior and senior years.
4. A statement that student has never been a member of a subversive organization.
5. A statement that, upon completion of the course and graduation, student will accept and retain in an active status, as a member of a regular or reserve component for a period of eight years, a reserve commission in the United States Air Force Reserve. Also, that student will serve a minimum of two years on active duty, if called by the Secretary of the Air Force.
6. A statement that the student will arrange his student teaching to permit his continued attendance of military classes on the campus.
7. A statement that student has never been convicted by military or civil court. (A waiver can be requested for those students who have been found guilty of minor violations.)
8. Academic record and results of general survey and screening tests.

Selection for Advanced Course • The college and the Professor of Air Science and Tactics will select those applicants found to be the most highly qualified for enrollment in the Advanced Course. The number of students selected is subject to quota limitations imposed by the Air Force. Maximum enrollment quota in the Advanced Course exists for students physically qualified and desirous of flight training with the Air Force after graduation.

Benefits and Allowances for Advanced Course Cadets •

1. Commission in either the Regular Air Force or the United States Air Force Reserve.
2. Deferment from induction under Selective Service.
3. Officer-type uniform furnished by the government.
4. Monetary allowances:
 - a. 90 cents per day during period of enrollment in Advanced Course. (595 day limit)
 - b. Pay of approximately \$72.80 while in attendance at 4-week summer encampment.
 - c. Travel allowance of 5 cents per mile to and from camp site.
5. Academic credit of 3 hours each quarter.
6. ROTC texts will be furnished on a loan basis.
7. Opportunity for graduate training in civilian institutions after call to active duty.

An Advanced Course student who is discharged from the AFROTC program for any reason, other than the convenience of the government, may be required to refund to the United States government all pay received at a rate of 90 cents per day during his enrollment in the Advanced Course.

Students having been formally enrolled in the Advanced Course and subsequently remaining enrolled on the campus but desiring to drop the AFROTC program for any reason, other than the convenience of the government, will be required to return to the United States government all monies received by the student due to his enrollment in the AFROTC program.

Staff and Equipment • Air Force personnel are detailed by Headquarters, United States Air Force, as instructors in the ROTC Unit. The Professor of Air Science and Tactics, as well as his officer and airmen assistants, are highly qualified and are usually combat duty veterans.

Equipment for instruction is furnished by the Air Force, including many training aids, mock-ups, and visual training charts pertaining to the subjects taught.

Description of Courses

1a. AIR SCIENCE I. *One hour credit.*

An introduction to AFROTC and to aviation, which includes a brief history and the development of aviation, a study of the anatomy of the airplane, and the basic principles of flight. Basic fundamentals of military drill by the individual.

1b. AIR SCIENCE I. *One hour credit.*

A study of the fundamentals of global geography, the factors of world power and the forces which develop international tensions, and the national and international security organizations. Military drill includes execution of flight and squadron maneuvers.

1c. AIR SCIENCE I. *One hour credit.*

The instruments of national military security are discussed in terms of historical development, missions, principal weapons, capabilities, limitations, and joint operations of our armed forces. The role of military aviation in our national defense program is stressed. Military drill provides for the participation in military reviews and ceremonies.

2a. AIR SCIENCE II. *One hour credit.*

Prerequisites, AS I (1a, b, c) or equivalent. An introduction to the elements of aerial warfare with a study of target definition, types of military targets, intelligence procedures related to targets, definition and types of aerial weapons including conventional high-explosive, atomic, rocket-propelled, chemical, biological, and psychological. Military drill provides for officer training in positions of leadership.

2b. AIR SCIENCE II. *One hour credit.*

Prerequisites, AS I (1a, b, c) or equivalent. A continuation of the elements of aerial warfare with a study of the factors governing the design and types of aircraft, the significance of the "air ocean" as a medium for delivery of weapons and problems associated with delivering weapons through the air ocean. Military drill continues to emphasize officer training by requiring student performance in positions of leadership.

2c. AIR SCIENCE II. *One hour credit.*

Prerequisites, AS I (1a, b, c) or equivalent. Conclusion of the elements of aerial warfare with a study of the air base as a platform for the delivery of weapons, types of air bases, problems associated with isolated and extreme climate base locations, engineering aspects in construction and maintenance of air bases, USAF combat and support organizations, and the role and responsibilities of each officer and airman in fulfilling the Air Force mission. Officer training during military drill by requiring student performance in positions of leadership.

101a. AIR SCIENCE III. *Three hours credit.*

Prerequisites, AS I (1a, b, c) and AS II (2a, b, c) or equivalent. An introduction to the Advanced AFROTC Course with a study of the responsibilities and functions of the Air Force Commander, organization of military staffs, principles of effective staff work, laws of learning, nature of thinking and problem solving, series of steps in problem solution, conference techniques in problem solution, nature of the communication process and communication media within the Air Force. Military drill provides leadership training in Flight and Squadron Cadet Officer positions.

101b. AIR SCIENCE III. *Three hours credit.*

Prerequisites, AS I (1a, b, c) and AS II (2a, b, c) or equivalent. A study of military law including crimes and offenses, types of courts martial, trial procedures, and board procedures. Aerodynamics, propulsion, and aircraft engines are also studied. Military drill provides leadership training in Flight and Squadron Cadet Officer positions.

101c. AIR SCIENCE III. *Three hours credit.*

Prerequisites, AS I (1a, b, c) and AS II (2a, b, c) or equivalent. A study of aerial navigation, meteorology, air base organization, air base functions, and functions of air base officers. Military drill provides leadership training in Flight and Squadron Cadet Officer positions.

201a. AIR SCIENCE IV. *Three hours credit.*

Prerequisites, AS III (101a, b, c). Review and critique of summer camp activities. A study of leadership concepts including importance of leadership, responsibilities, and authority of command. Study of Air Force management methods. Military drill provides leadership training in Group and Squadron Cadet Officer positions.

201b. AIR SCIENCE IV. *Three hours credit.*

Prerequisites, AS III (101a, b, c). A study of military aspects of world political geography including its significance to the Air Force power patterns and geopolitical concepts, anatomy of political power, geographical basis of power.

Military drill provides leadership training in Group and Squadron Cadet Officer positions.

201c. AIR SCIENCE IV. *Three hours credit.*

Prerequisites, AS III (101a, b, c). A study of career guidance showing occupational fields open to officers, qualifications necessary, and classification procedures; training in military and civilian institutions available to officers. Study of military aviation and the art of war, principles of war, historical campaigns, history of naval warfare, patterns of land, sea and air warfare. Briefing for commissioned service including assignment, orders, travel, pay and allowances, purchasing uniforms, etc. Military drill provides leadership training in Group and Squadron Cadet Officer positions.

Division of the Arts

The Division of the Arts includes the fields of Fine Arts, Home Economics, and Industrial Arts.

The academic programs are:

1. A major in Fine Arts leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates.
2. A major in Home Economics leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates.
3. A major in Industrial Arts leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates.
4. Minors in Fine Arts, Home Economics, Industrial Arts.
5. A major in Fine Arts and Home Economics leading to the Bachelor of Arts degree (liberal arts).

FINE ARTS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 24, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed on page 49.
3. One minor of 24 quarter hours outside the Division of the Arts (a second minor within the Division is optional).
4. Electives to complete requirements for graduation.

Programs must be planned with the student's adviser.

FINE ARTS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
F.A.	1	Drawing	- - - -	3
F.A.	2	Composition	- - - -	3
F.A.	4	Figure Construction	- - - -	3
F.A.	6	Introduction to Art Education	- - - -	2
F.A.	8	Modeling and Carving	- - - -	2 or 3
		or		
F.A.	17	Pottery	- - - -	2 or 3 or 5
F.A.	11	Introduction to Design	- - - -	4
F.A.	13	Lettering	- - - -	2
F.A.	103	Introduction to Watercolor Painting	- - - -	4
		or		
F.A.	120	Introduction to Oil Painting	- - - -	4
F.A.	105	Color Theory	- - - -	4
F.A.	116	Craft Processes and Design	- - - -	4
F.A.	123	Art in the Secondary School	- - - -	5
		or		
F.A.	127	Art Crafts in the Elementary School	- - - -	3
F.A.	124	Art in the Elementary School	- - - -	5
F.A.	221a	Art History I	- - - -	5
F.A.	221b	Art History II	- - - -	5

For a total of 48

Course program must be planned with the student's adviser.

Fine Arts Minor

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
F.A.	1	Drawing	- - - -	3
F.A.	11	Introduction to Design	- - - -	4
F.A.	13	Lettering	- - - -	2
F.A.	17	Pottery	- - - -	2
F.A.	103	Introduction to Watercolor Painting	- - - -	4
F.A.	116	Craft Processes and Design	- - - -	4
F.A.	124	Art in the Elementary School	- - - -	5

24

Fine Arts Minor for Elementary Education Majors

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
F.A.	3	Drawing for Elementary School Teachers	- - - -	3
F.A.	11	Introduction to Design	- - - -	4
F.A.	12	Lettering for Elementary School Teachers	- - - -	2
F.A.	17	Pottery	- - - -	3
F.A.	103	Introduction to Watercolor Painting	- - - -	4
F.A.	124	Art in the Elementary School	- - - -	5
F.A.	127	Art Crafts in the Elementary School	- - - -	3

24

FINE ARTS MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 25; (2) At least 48 quarter hours in Fine Arts; (3) One minor outside the Division of the Arts; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Courses required for a minor under this program are: F.A. 1, 11, 13, 17, 103 (or 120), 116, 221b.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section in this yearbook. Course work will be outlined by the student's major professor.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

1. DRAWING. *Three hours credit.*

A foundation course open to anyone who wishes to learn to draw. Visual training, technical procedures, the essentials of perspective. Media: chiefly charcoal and pencil.

2. COMPOSITION. *Three hours credit.*

Prerequisite, F.A. I or equivalent. The technical problems of pictorial composition involving the organization of all the visual elements. The course is recommended to precede the courses in painting.

3. DRAWING FOR ELEMENTARY SCHOOL TEACHERS. *Three hours credit.*

The fundamentals of beginning drawing specifically applied to the needs and methods of elementary school teachers.

4. FIGURE CONSTRUCTION. *Three hours credit.*

Prerequisite, F.A. 1 or equivalent. The study of the human figure, its essential anatomy and construction. The figure as an important motif in design and composition. Study from life.

6. INTRODUCTION TO ART EDUCATION. *Two hours credit.*

Prospective teachers are introduced to the objectives, subject matter content and problems of art education, so that they may work more purposefully throughout the period of their professional preparation.

8. MODELING AND CARVING. *Two or three hours credit.*

Creative design in the field of small sculpture. Modeling for various techniques. Sculpture with and without armature, plaster casts, carving in plaster, stone, and wood.

11. INTRODUCTION TO DESIGN. *Four hours credit.*

A study of the basic elements of design and the techniques of organization. Creative projects in abstract and applied fields.

12. LETTERING FOR ELEMENTARY SCHOOL TEACHERS. *Two hours credit.*

Study of letter forms, manuscript writing, poster lettering, blackboard writing, and holiday and unit displays.

13. LETTERING. *Two hours credit.*

The basic letter forms and useful variants. A study of layout and design. The course includes work in manuscript, showcard, and poster.

17. POTTERY. *Two, three, or five hours credit.*

Creative experience in the design and construction of pottery. Various methods are studied: glazing, casting, firing.

20. ART APPRECIATION. *Three hours credit.*

Opportunity and guidance are offered to the student who wishes to discover his own potentialities in creative art experiences in drawing, painting, modeling, pottery, and the crafts.

§65. BEGINNING SCENE DESIGN. (Credit may be obtained in The Arts or Humanities.) *Three hours credit. (Two hours lecture, two hours laboratory.)*

Prerequisites, F.A. 1, 11, or equivalent. A study of the art of the theater from the designer's point of view. Practical experience in working out the art problems involved in production.

100. WEAVING. *Four hours credit.*

A study of the basic fundamentals of threading and weaving on two- and four-harness looms; emphasis on plain and pattern weaving.

103. INTRODUCTION TO WATERCOLOR PAINTING. *Four hours credit.*

Prerequisite, F.A. 1 or the equivalent. A beginning course in watercolor painting.

105. COLOR THEORY. *Four hours credit.*

Prerequisite, F.A. 11. A study of color relationships and organizational principles pertinent to the color unit.

108. CLAY MODELING. *Two or three hours credit.*

The theory and techniques of modeling and casting.

110. COMMERCIAL DESIGN AND ILLUSTRATION. *Three hours credit.*

Prerequisites, F.A. 1 and 4. Procedures and techniques of modern commercial art.

114. DESIGN IN TEXTILES. *Four hours credit.*

Prerequisite, F.A. 11. Experience in the design and methods of decorating textiles, block print, stencil, batik, free brush and silk screen work.

116. CRAFT PROCESSES AND DESIGN. *Four hours credit.*

Prerequisite, F.A. 11. Creative experience in a variety of crafts including leathercraft, simple woodwork and metalcraft, plastics and others.

117. POTTERY. *Two, three or five hours credit.*

The principles of design applied to mass, volume and decoration. Experience in the coil, slab, potter's wheel, casting, glazing and firing. Beginning course.

118. PUPPETRY. *Three hours credit.*

Design and construction of puppets and marionettes adapted to the interests and abilities of the various grade levels. Practical experience in puppet play production.

119. POSTER AND DISPLAY. *Three hours credit.*

Prerequisite, F.A. 13. Advanced poster techniques, including stencil and air-brush. Principal of display applied to organization of exhibit material and modern window setting.

120. INTRODUCTION TO OIL PAINTING. *Four hours credit.*

Prerequisite, F.A. 1 or the equivalent. A beginning course in oil painting.

123. ART IN THE SECONDARY SCHOOL. *Five hours credit.*

Methods of teaching art at the junior high and high school levels. A study of the relation of art activities to the school program.

124. ART IN THE ELEMENTARY SCHOOL. *Five hours credit.*

Methods of teaching art at the elementary school level. Organization of work units and practical creative experience in a wide variety of media.

127. ART CRAFTS IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite for majors, F.A. 124. Practical creative experience in a variety of crafts suitable for the elementary school classroom; includes clay, weaving, papier mache, toy making, puppets, and cardboard and paper construction.

129. FASHION DRAWING. *Two hours credit.*

Prerequisites, F.A. 1 and 4. A course in the techniques of costume and fashion illustration. Work in various media pertinent to the processes of reproduction used in newspaper and magazine advertising.

130. WORKSHOP IN ART FOR ELEMENTARY TEACHERS. *Three hours credit.*

A study and discussion of the problems in the field of the elementary school art program. Helps the teacher to develop an interest and enthusiasm for the teaching of art through lecture-demonstration and class participation of a wide variety of creative art activities.

132. CARTOON AND CARICATURE. *Three hours credit.*

Prerequisites, F.A. 1 and 4. The cartoon figure in commercial art. Principles, techniques, and construction. Pen and ink.

133a,b,c. INDIVIDUAL PROBLEMS IN FINE ARTS. *Two or four hours credit each.*

Open to advanced students who may pursue creative work according to their individual needs.

135a,b,c. LIFE CLASS. *Two hours credit each.*

Prerequisite, F.A. 1. Opportunity to draw from the human figure.

136. TECHNIQUES AND MATERIALS. *Four hours credit.*

The use of wash, oil, Wolfe crayon, watercolor, gouache, pen and ink, and other media in relation to the processes of reproduction in magazine, newspaper, and book illustration.

140. PROBLEMS IN COMMERCIAL DESIGN. *Three hours credit.*

A general study of the forms of commercial design and illustration with specific emphasis upon merchandising and advertising media.

200. TECHNIQUES OF CREATIVE WEAVING. *Four hours credit.*

Prerequisite, F.A. 100 or equivalent. A study of the problems and various processes of weaving. Emphasis on original designing of patterns for color and texture.

201. TECHNICAL PROCEDURES FOR THE ART TEACHER. *Two hours credit.*

This course deals with the problems in the teaching and supervision of art in the public schools.

202. ADVANCED COMPOSITION. *Three hours credit.*

Prerequisites, F.A. 1 and 2. Advanced problems in pictorial and graphic composition.

203. WATERCOLOR PAINTING. *Four hours credit.*

Prerequisites, F.A. 1, 2, and 103 or the equivalent. This course seeks to develop individual expression in creative painting and technical mastery of the medium.

204. FIGURE AND COMPOSITION. *Four hours credit.*

Prerequisites, F.A. 2 and 4 or the equivalent. An advanced study of the human figure in composition. Creative work in a variety of media.

209. PRINT MAKING. *Five hours credit.*

A study of print processes; etching, dry-point, lithograph, stencil, wood-cut, linoleum block, monoprint. Experience is offered in the making of prints and the adaptation of print making to secondary school uses.

211. DESIGN, COLOR AND COMPOSITION PROBLEMS. (Summer Sessions only.) *Three hours credit.*

A study of the elements and principles of design, color relationships and organizational principles of color units and the organization of the visual elements relating to pictorial composition.

212. PROBLEMS IN DESIGN. *Three hours credit.*

Prerequisite, F.A. 11 or the equivalent. A study of the techniques of organization of the design variables. Opportunity for individual growth in solving design problems in areas of student's choice.

216. ENAMELING AND CREATIVE DESIGN IN METAL. *Four hours credit.*

Prerequisite, F.A. 11. An experimental approach to the problem of contemporary jewelry and metalwork. Emphasis on the techniques of enameling on copper, but also including the exploration of combining silver, wood and plastic.

219. THE SILK SCREEN PRINTING PROCESS. *Four hours credit.*

The study of various methods and techniques in contemporary graphic process of silk screening. Applied problems in all the methods with emphasis on serigraphy: blackout, paper stencil, pro-film, tusche, and the photography stencil method.

220. OIL PAINTING. *Four hours credit.*

Prerequisite, F.A. 120 or the equivalent. This course seeks to develop individual expression in creative painting and technical mastery of the medium.

221a. ART HISTORY I. *Five hours credit.*

A study of the development of art from prehistoric time to and including the Gothic Age.

221b. ART HISTORY II. *Five hours credit.*

A study of the development of art from the Renaissance to the present day.

222. ART TODAY. THE HISTORY AND APPRECIATION OF MODERN ART. *Three hours credit.*

A study of the origins and development of contemporary art forms in painting, sculpture and architecture.

225. FIGURE PAINTING. *Four hours credit.*

Prerequisite, F.A. 120 or equivalent. Painting in oils from the human figure.

226. ART EDUCATION TODAY. (Summer Session only.) *Four hours credit.*

A study of current trends in philosophy and method with stress laid upon the creative approach and its relation to personality development as well as community needs. Members of the class may do concentrated work on their own teaching problems.

230. WORKSHOP IN ART FOR ELEMENTARY TEACHERS. *Three hours credit.*

This course is designed to give the graduate student a philosophy of art education, an understanding of and an opportunity to participate in the essential art activities for the elementary school; to develop his interest and enthusiasm for the teaching of art. Emphasis is given to the creative approach and the integration of the art activities with the entire school program.

§232. ADVANCED SCENE DESIGN. (Credit may be obtained in The Arts or Humanities.) *Three hours credit.*

Prerequisite, F.A. 65 or equivalent. The techniques and problems of scenic design involving the aesthetic qualities of settings, costumes, properties, and lighting.

233a,b,c. INDIVIDUAL PROBLEMS IN FINE ARTS. *Two or four hours credit each.*

Open to advanced students who may pursue creative work according to their individual needs.

243. ART IN CONTEMPORARY LIVING. *Three hours credit.*

The student elects three out of the following six areas offered for study: foods and table; ready-to-wear costume; interiors, fabrics, and furnishings; pictures and accessories in the home; woods and upholstery; principles of design and color in daily living.

264. INDUSTRIAL ARTS DESIGN. *Three hours credit.*

Principles of design applied to the various areas of industrial arts.

§279a. ORGANIZATION AND ADMINISTRATION OF THE ARTS PROGRAM. (Credit may be obtained in The Arts or Education.)
Four hours credit.

A course primarily for school administrators, which presents the philosophy, problems of organization, methods and the like of a general arts program.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students. Taught jointly with majors from Industrial Arts and Home Economics.

305. ADVANCED COLOR THEORY. *Four hours credit.*

Prerequisite, F.A. 105 or equivalent. An intensive study of creative color composition.

308. SCULPTURE. *Two, three, or five hours credit.*

The theory and techniques of sculpture, with a study of the processes. Creative work in a choice of plastic media.

§308g. WORKSHOP IN THE PRODUCTION OF AUDIO-VISUAL MATERIALS. (Summer Session only.) (Credit may be obtained in Education or The Arts.) *Four hours credit.*

For description of this course, see page 82.

313. GRAPHIC LAYOUT AND DESIGN. (Summer Session only.) *Four hours credit.*

Prerequisite, F.A. 13 or equivalent. A study of the development of letter forms, and the principles of graphic design. Advanced problems in lettering and composition.

316. CRAFT PROCESSES AND DESIGN FOR SECONDARY SCHOOLS.
Four hours credit.

A study of design and arts/crafts adapted to secondary school levels.

317. CERAMICS. *Two, three, or five hours credit.*

Prerequisite, F.A. 17 or the equivalent. Historical research in design and processes of ceramics ware. Individual creative and technical competence stressed.

322. INDIVIDUAL STUDIES IN ART EDUCATION. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

Provides for independent study in fields of specialization not provided for in formal classes. Qualified students are expected to spend a minimum of twenty-five clock hours for each quarter hour of college credit. Paper required.

324. CREATIVE ACTIVITIES IN THE ELEMENTARY SCHOOL. *Four hours credit.*

Research and creative experience in the various art activities of the elementary school art education program.

327. PROBLEMS AND TECHNIQUES IN HANDCRAFTS FOR ELEMENTARY SCHOOLS. *Three hours credit.*

A workshop study of the recent trends in methods and techniques of craft work suited to the elementary school classroom.

328. THE CURRICULUM IN ART EDUCATION. (Summer Session only.)
Four hours credit.

A review of the best literature on the content and organization of the curriculum in general education, and the professional literature in art education. Analysis and evaluation of courses of study, the building of curriculums and significant units for teaching art.

399. THESIS. *Eight hours credit.*

HOME ECONOMICS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
 2. The 48 quarter hours in the major listed below.
 3. One minor of 24 quarter hours selected in any division.
 4. Free electives to complete requirements for graduation.
- Recommended electives: H.E. 183, 189, 198, 284, Phys. 165.

Programs must be planned with the student's adviser.

HOME ECONOMICS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
H.E. 70	Clothes and Personality	-	-
H.E. 72	Textiles and Elementary Clothing Construction	-	5
H.E. 77	Family Meal Cookery and Service	-	4
H.E. 78	Food Preparation and Service	-	4
H.E. 98	Elementary Nutrition	-	3
H.E. 180	Family Relationships	-	3
H.E. 181	Infant and Child Care	-	4
H.E. 188	Costume Design	-	3
H.E. 191a	Management in Family Living	-	3
H.E. 191b	Home Management Residence	-	2
H.E. 199	Preservation of Food	-	2
H.E. 260	Development and Guidance of the Young Child	-	3
H.E. 275	Home Furnishing	-	3
H.E. 293	Adult Education in Homemaking	-	2
H.E. 295	Tailoring	-	4

48

Credential for Teaching Vocational Homemaking • In order to qualify for a Vocational Homemaking Credential under the State Board for Vocational Education, the following credits are also required:

Course Number	Course Title	Hours	Credit
H.E. 73	Advanced Textiles and Clothing Construction	-	5
H.E. 268	Family Housing	-	2
B.Ed. 254	Consumer Education	-	3
F.A. 116	Craft Processes and Design	-	4
Ed. 228a	Mental Hygiene and Emotional Adjustment	-	3
Ed. 272	Principles of Vocational Education	-	3
Bot. 122	General Bacteriology	-	5
Chem. 40a	Principles of Chemistry	-	5

30

Home Economics Minor

Course Number	Course Title	Hours	Credit
H.E. 70	Clothes and Personality	- - - -	3
H.E. 76	Clothing Selection and Construction	- - - -	5
H.E. 94	Elementary Cookery and Food Service	- - - -	4
H.E. 98	Elementary Nutrition	- - - -	3
H.E. 180	Family Relationships	- - - -	3
H.E. 191a	Management in Family Living	- - - -	3
H.E. 275	Home Furnishing	- - - -	3
			24

Recommended electives for Home Economics minors who want to teach homemaking in the secondary schools:

Course Number	Course Title	Hours	Credit
H.E. 181	Infant and Child Care	- - - -	4
H.E. 192	Methods in the Teaching of Homemaking	- - - -	3
H.E. (selected)		- - - -	5

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section in this yearbook. Course work will be outlined by the student's major professor.

DIETETICS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 24, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed on page 57.

3. One minor of 25 quarter hours preferably in the Division of the Sciences to include Bot. 122, General Bacteriology (5 hours); Chem. 40a, Principles of Chemistry (5 hours); Chem. 40b, General Inorganic Chemistry (5 hours); Chem. 40c, Introductory Organic Chemistry (5 hours); Chem. 247, Biochemistry (5 hours).

4. 27 to 34 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with student's adviser.

DIETETICS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
H.E. 70	Clothes and Personality	- - - -	3
H.E. 72	Textiles and Elementary Clothing Construction	- - - -	5
H.E. 73	Advanced Textiles and Clothing Construction	- - - -	5
H.E. 77	Family Meal Cookery and Service	- - - -	4
H.E. 98	Elementary Nutrition	- - - -	3
H.E. 175	Dietetics	- - - -	3
H.E. 180	Family Relationships	- - - -	3
H.E. 181	Infant and Child Care	- - - -	4
H.E. 187	Institution Management	- - - -	5
H.E. 260	Development and Guidance of the Young Child	- - - -	3
H.E. 275	Home Furnishing	- - - -	3
H.E. 282	Nutrition in Disease	- - - -	3
H.E. 284	Demonstration Techniques	- - - -	2
H.E. 289	Institution Economics	- - - -	2
			48

American Dietetics Association Internship Requirements • In order to qualify for an American Dietetics Association internship, the following credits are also required:

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
H.E. 78	Food Preparation and Service	- - - -	4
H.E. 198	Meal Planning and Service	- - - -	4
H.E. 199	Preservation of Food	- - - -	2
H.E. 285	Experimental Cookery	- - - -	3
H.E. 286	Quantity Cookery	- - - -	4
Econ. 100	Principles of Economics	- - - -	5
Zool. 117	Human Physiology	- - - -	3
			25

HOME AND FAMILY LIVING MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 25; (2) At least 48 quarter hours in Home Economics; (3) One minor of 24 quarter hours selected in any division; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Courses required for a minor under this program are: H.E. 70, 76, 94, 98, 191a, six hours of electives.

DIETETICS MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 25; (2) At least 48 quarter hours in Dietetics; (3) One minor of 25 quarter hours preferably in the Division of the Sciences to include Bot. 122, General Bacteriology (5 hours); Chem. 40a, Principles of

Chemistry (5 hours); Chem. 40b, General Inorganic Chemistry (5 hours); Chem. 40c, Introductory Organic Chemistry, (5 hours); Chem. 247, Biochemistry (5 hours); (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this year-book. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

70. CLOTHES AND PERSONALITY. *Three hours credit.*

A study of the factors which influence one's personality; posture, grooming, the application of art principles to clothing selection for figure and facial types, appropriate accessories and care of clothing.

72. TEXTILES AND ELEMENTARY CLOTHING CONSTRUCTION. *Five hours credit. (Three hours lecture, four hours laboratory.)*

This course deals with basic principles in garment construction and fitting. Commercial patterns are used in applying these principles through the construction of cotton garments. Included is a study of the fibers, yarns, and manufacturing processes fundamental in the purchase, care and use of cotton and linen textile fabrics.

73. ADVANCED TEXTILES AND CLOTHING CONSTRUCTION. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisite, H.E. 72 or equivalent. This course is designed to give students experience in making garments of silk, rayon, nylon or other man-made fabrics, thereby developing greater skill in solving fitting and construction problems. The textile study includes the production of silk, wool, and man-made fibers and the processes in manufacture which influence the characteristics of finished fabrics.

76. CLOTHING SELECTION AND CONSTRUCTION. *Five hours credit. (Three hours lecture, four hours laboratory.)*

This is a non-technical course for non-majors and electors. This course is planned to assist the student in analyzing her personal needs and in developing standards in selection, purchase, use and care of clothing. Garments are constructed so that techniques in construction and use of sewing equipment may be practiced.

77. FAMILY MEAL COOKERY AND SERVICE. *Four hours credit. (Two hours lecture, four hours laboratory.)*

A study of the fundamental processes of cookery. Laboratory work consists of planning, preparing and serving meals. The breakfast, lunch and buffet supper are emphasized. This course open only to majors except by special permission.

78. FOOD PREPARATION AND SERVICE. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Emphasis is given to principles of cooking involved in more difficult food preparation. Laboratory work centers around the planning, preparing, and serving of the family dinner and more elaborate and formal types of meals. This course is open only to majors except by special permission.

94. ELEMENTARY COOKERY AND FOOD SERVICE. *Four hours credit. (Two hours lecture, four hours laboratory.)*

This is a non-technical course in food preparation planned for men or women students desiring more knowledge for the fundamental processes of cookery and food marketing. Simple meals and party refreshments will be planned, prepared and served.

§98. ELEMENTARY NUTRITION. (Credit may be obtained in Home Economics or Health and Physical Education.) *Three hours credit.*

Enables students to select food suited to their needs in the light of the newer knowledge of nutrition and individual physical fitness.

175. DIETETICS. *Three hours credit.*

Prerequisite, H.E. 98. Dietaries for families of various income levels are planned. Emphasis is given to recent developments in human nutrition. The diet of the young child both in group feeding situations and in relation to the diet of the family is studied. Twenty hours laboratory experience arranged per quarter.

180. FAMILY RELATIONSHIPS. *Three hours credit.*

The relationship of the individual to his human contacts. The establishment of the successful American home.

181. INFANT AND CHILD CARE. *Four hours credit.*

A study of the growth pattern from conception through infancy and the third year of life. Course deals with prenatal as well as postnatal factors which influence early development. Emphasis upon guidance and provisions for care. The responsibilities of adults for providing a favorable home environment. Limited observation of children.

§183. HOME NURSING. (Credit may be obtained in Health and Physical Education or Home Economics.) *Two hours credit.*

For description of this course, see page 101.

187. INSTITUTION MANAGEMENT. *Five hours credit. (Four hours lecture, two hours laboratory.)*

The organization and management of various types of institutions. Specific emphasis is given to problems of personnel, the physical plant, and efficient work schedules.

188. COSTUME DESIGN. *Three hours credit. (One hour lecture, four hours laboratory.)*

Prerequisite, H.E. 73 or the equivalent. The development of clothing from primitive peoples to the present fashion industry. Some experience is given in flat pattern designing, draping and adaptation of commercial patterns. Creative problems are planned to develop skill in the application of art principles and an understanding of fitting problems.

189. ADVANCED CLOTHING CONSTRUCTION. *Two hours credit. (One hour lecture, two hours laboratory.)*

Prerequisite, H.E. 188. Garments are constructed from designs created in H.E. 188. This provides the student with an opportunity to develop greater skill in solving construction and fitting problems.

191a. MANAGEMENT IN FAMILY LIVING. *Three hours credit.*

A study of management and its relationship to successful home living. Techniques used in managing the family's resources to achieve desired ends are stressed. Work simplification, efficient planning and management of family finances are studied in detail.

191b. HOME MANAGEMENT RESIDENCE. *Two hours credit.*

Prerequisites, H.E. 77, 78, 191a, or equivalent. Students live for a period of six weeks in the Margaret Roudebush Home Management House on the campus. Here they put into practice desirable standards of home living.

192. METHODS IN THE TEACHING OF HOMEMAKING. *Three hours credit.*

This course is planned for Home Economics minors. A study of the philosophy of homemaking education, characteristics and needs of adolescents, organization of the curriculum, methods and materials. Includes directed observation.

198. MEAL PLANNING AND SERVICE. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Prerequisites, H.E. 77, 78 or equivalent. This course provides more practice in individual and group work in planning, preparing, and serving meals. Opportunities are planned to show how to solve some of the problems of the hostess in serving food on various occasions in the modern American home.

199. PRESERVATION OF FOOD. *Two hours credit. (One hour lecture, two hours laboratory.)*

Prerequisites, H.E. 77, 78 or equivalent. Discussions and laboratory practice in home methods of food preservation by the water bath, pressure cooker, drying, and quick freeze techniques. Observation of commercial methods of food preservation.

§209. NEW TRENDS IN NUTRITION. (Credit may be obtained in Home Economics or Health and Physical Education.) *Four hours credit.*

A detailed study of the value of carbohydrates, fats, proteins, minerals and vitamins in human nutrition. A comprehensive study of nutrition problems in health education. A study of the latest research will be made.

243. ART IN CONTEMPORARY LIVING. *Three hours credit.*

This class deals with the following problems: selection of clothing for the individual man or woman, selection and arrangement of furnishings suitable to the modest home, correct serving of refreshments and informal meals, and attractive, inexpensive table decorations.

§260. DEVELOPMENT AND GUIDANCE OF THE YOUNG CHILD. (Credit may be obtained in Education or Home Economics.) *Three hours credit.*

For description of this course, see page 80.

§261. PARTICIPATION IN PRESCHOOL. (Credit may be obtained in Education or Home Economics.) *Three hours credit.*

For description of this course, see page 80.

§264. WORKSHOP IN PRESCHOOL. (Credit may be obtained in Education or Home Economics.) *Three hours credit.*

For description of this course, see page 80.

268. FAMILY HOUSING. *Two hours credit.*

A study of housing as it relates to family living. Students learn basic principles and acquire information needed for solving housing problems of typical family groups. Students consider the financing of housing, family needs, and procedures in buying, renting, and building. Plans are made for building and remodeling family housing units.

271. TEXTILES. *Three hours credit.*

This course planned primarily for non-majors. It is especially desirable for students who wish to gain valuable information as consumers of textiles. Fibers, yarns, finishing agents will be studied in relation to selection, use and care of fabrics.

275. HOME FURNISHING. *Three hours credit.*

A study of the application of art principles to the selection of furnishings for homes of various types. Emphasis is given to the importance of considering the needs and resources of the family for intelligent choice, arrangement and care of furnishings.

277. NUTRITION AND THE SCHOOL LUNCH PROGRAM. *Four hours credit.*

A study of the school lunch program, its organization and management, its effect on the food habits and nutritional state of the elementary and secondary school pupil, and its place as an integral part of the total school program.

279. PRESERVATION OF FOOD. (Summer Session only.) *Four hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisites, H.E. 77, 78 or equivalent. Open kettle, water bath, pressure cooker, quick freeze, and dehydration methods are discussed and home methods of these types of food preservation are practiced in the laboratory. Commercial canning methods are discussed and observed.

282. NUTRITION IN DISEASE. *Three hours credit.*

Prerequisite, H.E. 98. A study of the fundamental principles involved in the treatment of disease through diet. Ten hours laboratory during the quarter required.

284. DEMONSTRATION TECHNIQUES. *Two hours credit.*

Prerequisites, H.E. 72, 77 or equivalent. Practice in the techniques of demonstrating before audiences. All phases of the Home Economics field will be used to furnish types of demonstrations. Four single periods per week.

285. EXPERIMENTAL COOKERY. *Three hours credit. (Two hours lecture, two hours laboratory.)*

Prerequisites, H.E. 77, 78 or equivalent. An opportunity to determine the effects of temperature, time, and different manipulations on foods. Commercial products are tested and compared with home methods of preparation.

286. QUANTITY COOKERY. *Four hours credit. (Two hours lecture. Four hours laboratory arranged.)*

Prerequisites, H.E. 77, 78 or equivalent. Application of cookery to large quantity preparation. Meal planning for various types of food service. Practice in using labor-saving devices of modern institutional kitchens. Techniques of buying food in large quantity. The facilities of the student dining halls and the school lunch program are available for laboratory assignment.

289. INSTITUTION ECONOMICS. *Two hours credit.*

A study of the records necessary for the efficient administration of various types of institutions. Simple bookkeeping mechanics are developed and elementary principles of food cost accounting are studied. Criteria are established for buying equipment needed in various types of institutions.

291. MANAGING FAMILY RESOURCES. *Four hours credit.*

A study of the management of human and material resources in achieving family goals. Techniques used in managing the family's resources to achieve desired ends are stressed. Work simplification, efficient planning and management of family finances are studied in detail.

292. IMPROVEMENT OF INSTRUCTION IN HOME MAKING. *Four hours credit.*

This course is planned for Home Economics majors and graduate students who wish to take their methods in the summer quarter. A study of the philosophy of homemaking education, characteristics and needs of adolescents, organization of the curriculum, methods and materials.

293. ADULT EDUCATION IN HOME MAKING. *Two hours credit. (One hour lecture, two hours laboratory.)*

A study of the philosophy of adult education, procedures used in promoting and organizing adult programs, and methods used in teaching adults. Includes observation and practice in working with adults.

294. INSTRUCTION AIDS IN HOME ECONOMICS. *Two hours credit.*

Students develop and use criteria in evaluating teaching materials and aids. Selecting, organizing, and storing of aids is included. Visual aids and devices used in teaching various phases of homemaking are planned and prepared.

295. TAILORING. *Four hours credit. (One hour lecture, six hours laboratory.)*

Prerequisite, H.E. 73 or equivalent. Opportunity for developing skill is presented in the construction of lined suits and coats.

298. PROBLEMS IN FOOD SERVICE. (Summer Session only.) *Four hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisites, H.E. 77, 78 or equivalent. A study dealing with the problems in food service which confront the Home Economics teacher. This course will cover the service of food in the home as well as catering for school banquets, receptions and other special school functions where food is served.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students. Taught jointly with majors from Industrial Arts and Fine Arts.

301. SUPERVISION OF STUDENT TEACHING IN HOME ECONOMICS.
One and one-half to four hours credit.

The qualifications, objectives and responsibilities of the supervising teacher are analyzed. Supervision techniques and methods of evaluating the development of the student teacher are stressed.

302. TEACHING PROBLEMS IN HOMEMAKING. (Summer Session only.)
Four hours credit.

Modern methods and trends in homemaking education. Problems of the individual teacher are studied and assistance is given the student in working out practical solutions. Common problems are considered by the entire group.

303. TEACHING HOMEMAKING AND RELATED SUBJECTS. (Summer Session only.) *Four hours credit.*

A study of the philosophy and development of homemaking education. Vocational homemaking programs in reimbursed schools, home experiences and homemaking clubs are emphasized. Related subjects of art and science in homemaking are stressed. Cooperative planning, teaching aids, methods and techniques, evaluation and space and equipment are studied.

306. HISTORY OF COSTUME. (Summer Session only.) *Four hours credit.*

An intensive study of the development of costume through the ages and its influence on the designs of present day costumes. Some study is also given to the growth of the fashion industry in Europe and this country.

307. CLOTHING ECONOMICS. (Summer Session only.) *Four hours credit.*

A study of family and individual clothing problems: standardization, labeling, consumer protection, recent textile developments, consumer purchasing surveys, custom and wholesale production methods. The relation of fashion to manufacturing and consumption of clothing.

322. INDIVIDUAL STUDIES IN HOME ECONOMICS. (Summer Session only.) *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

The course provides for independent study, particularly in those phases of a field of specialization not provided for in formal class courses. A comprehensive written report of each study is required. Admission by special permission of the major professor.

371. ADVANCED TEXTILES. (Summer Session only.) *Four hours credit.*

Prerequisite, H.E. 271 or equivalent. A study of recent textile developments. Problems of individual interest are considered. A study of Oriental, European, English and American textiles, the man-made fibers and other recent developments in textiles.

380. THE TEACHING OF FAMILY LIVING. (Summer Session only.)
Four hours credit.

The needs of adolescents and the place of family living in the curriculum. Objectives, course and unit planning, content, teaching techniques, and evaluation of achievement are included. Reference materials, aids and resources and their use. Students receive help with individual problems.

385. RESEARCH IN FOODS. (Summer Session only.) *Four hours credit.*

Prerequisites, H.E. 77, 78 or equivalent. A study of the recent findings in food research. Opportunity is given for individual investigation in various problems of food preparation. Valid techniques of experimentation are stressed.

396. DRESS DESIGN IN DRAPING. (Summer Session only.) *Four hours credit.*

Prerequisite, H.E. 188 or equivalent. Problems to develop original discrimination and techniques in costume design, developed with the means of draping fabrics.

398. FOOD SERVICE. (Summer Session only.) *Four hours credit.*

This course is planned to give the graduate student further opportunity to develop her skill in the preparation and service of meals. Individual responsibility is stressed and homelike occasions are duplicated as nearly as possible in the laboratory situation.

399. THESIS. *Eight hours credit.*

INDUSTRIAL ARTS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed below.
3. One minor of 24 quarter hours outside the Division of The Arts.
4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

INDUSTRIAL ARTS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
I.A. 34	Introduction to Industrial Arts	2	-
I.A. 141a	Elements of Printing	3	-
I.A. 141b	Elements of Printing	2	-
I.A. 141c	Elements of Printing	3	-
I.A. 50a	Bench Woodwork	3	-
I.A. 50b	Intermediate Woodwork	3	-
I.A. 50c	Machine Woodwork	3	-
I.A. 137a	Problems in Upholstery	2	-
I.A. 153a	Woodturning	2	-
I.A. 55a	Introduction to General Metal	3	-
I.A. 57a	Elements of Art Metal	2	-
I.A. 59a	Elements of Gas and Electric Welding	2	-
I.A. 155a	Elements of Machine Lathe Operation	2	-
I.A. 61a	Principles of Drafting	3	-
I.A. 61b	Principles of Drafting	2	-
I.A. 61c	Principles of Drafting	3	-
I.A. 161d	Principles of Drafting	2	-
I.A. (selected) *		6	-

*Required courses in the major. Select six hours from:

48

Course Number	Course Title	Hours	Credit
I.A. 234	History of Industrial Arts	4	-
I.A. 235	Philosophy of Industrial Arts	3	-
I.A. 236	Principles of General Shop Organization	3	-
I.A. 238	Current Theory and Practice in the Arts	3	-
I.A. 240	Course Organization in Industrial Arts	3	-
I.A. 241	The Place of the Arts in General Education	3	-

Industrial Arts Minor

Course Number	Course Title	Hours	Credit
I.A. 50a	Bench Woodwork	- - - -	- - - - 3
I.A. 50b	Intermediate Woodwork	- - - -	- - - - 3
I.A. 50c	Machine Woodwork	- - - -	- - - - 3
I.A. 61a	Principles of Drafting	- - - -	- - - - 3
I.A. 61b	Principles of Drafting	- - - -	- - - - 2
I.A. 61c	Principles of Drafting	- - - -	- - - - 3
I.A. (electives)	- - - - -	- - - -	- - - - 7

 24

Alternate minor may consist of Woodwork - 8 hours, Metalwork - 8 hours, and Drafting - 8 hours. Consult instructors in each area of work about the selection of courses.

Ed. 150b,c, Introduction to Student Teaching and Methods in the Secondary School (5 hours credit), does not count toward the minor but is recommended as an elective.

Course substitutions will be made for students who expect to become craft counselors, playground instructors, et cetera.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section in this yearbook. Course work will be outlined by the student's major professor.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

34. INTRODUCTION TO INDUSTRIAL ARTS. *Two hours credit.*

The basis for the development of a modern philosophy of industrial arts. Orientation to problems of teaching and teacher preparation. Required of all freshman majors in Industrial Arts.

46a,b. BOOKBINDING. *Two to five hours credit.*

Practical problems presented to develop basic elementary skills in hand bookbinding. Unit a. Beginning kinds of fastening sheets together and elementary types of binding applicable to an elementary arts program. *Three hours credit.* Unit b. Intermediate binding problems with a unit of bookcrafts. Binding with limited "home-made" equipment is covered for all types of hand binding. *Two hours credit.*

50a. BENCH WOODWORK. *Three hours credit.*

Courses "a", "b", and "c" progress from elementary to more advanced work. Study of woods, materials and supplies parallel development of skills.

50b. INTERMEDIATE WOODWORK. *Three hours credit.*

A continuation of 50a, with emphasis on more advanced hand woodworking processes.

50c. MACHINE WOODWORK. *Three hours credit.*

Prerequisites, 50a,b or equivalent. Experience in the use of common machines found in the average woodworking shop.

54a,b. WORKSHOP IN INDUSTRIAL ARTS FOR ELEMENTARY TEACHERS. *Three hours credit each.*

Development of basic skills through elementary work in wood, metals, and other materials easy to get. Adaptation of work to classroom or small shop. Creative work with limited equipment.

55a. INTRODUCTION TO GENERAL METAL. *Three hours credit.*

First in a sequence of metal courses. Basic shop procedures, objectives, and relationship to other types of work in metal. Emphasis on elementary bench metal, sheet metal, and forge practice.

57a. ELEMENTS OF ART METAL. *Two hours credit.*

Prerequisite, 55a. Elementary course in art metalwork including bowl and tray construction, etching, pierce work, soft and hard soldering, planishing and finishing of copper and aluminum.

57b. ADVANCED ART METAL AND METAL SPINNING. *Three hours credit.*

Prerequisite, 57a. A course in advanced art metal concerned with the construction of copper, aluminum, brass, German silver, and giving experience in extreme raising, chasing and repousse, and metal spinning.

59a. ELEMENTS OF GAS AND ELECTRIC WELDING. *Two hours credit.*

Prerequisite, 55a. An introductory course in the field of gas and electric welding of mild steel and simple fabrication of projects.

59b. ADVANCED GAS AND ELECTRIC WELDING. *Three hours credit.*

Prerequisite, 59a. Advanced course in gas and electric welding which will include flat, horizontal, vertical, and overhead welding, bronze welding, cast iron welding, use of low temperature alloy rods, and the fabrication of projects and teaching aids peculiar to this area.

61a,b,c. PRINCIPLES OF DRAFTING. *Two to eight hours credit.*

Practical problems in drafting and planning as accomplished in the following courses:

Unit a. Geometric construction, orthographic projection, sectional views, auxiliary projection, and pencil tracing. *Three hours credit.*

Unit b. Revolution, isometric, inking, oblique, and cabinet drawing. *Two hours credit.*

Unit c. Perspective, dimetric, shading, freehand sketching, and blueprinting. *Three hours credit.*

137a,b. PROBLEMS IN UPHOLSTERY. *Two hours credit each.*

Techniques and processes in upholstery using various types for all grade levels.

141a,b,c,d. ELEMENTS OF PRINTING. *Two to ten hours credit.*

Experience with the fundamental operations used in a school graphic arts shop; information as to tools, machines, and materials; the place of printing in community life, and the relationship between printing and other subjects of the curriculum.

Unit a. *Three hours credit.*

Unit b. *Two hours credit.*

Unit c. *Three hours credit.*

Unit d. *Two hours credit.*

146c,d. BOOKBINDING. *Two to five hours credit.*

Prerequisites, 46a,b. Advanced binding problems, including leatherbinding and advanced bookcrafts.

Unit c. Magazine binding in heavy buckrams, including appropriate sewing in terms of use of book. Course includes a unit on book repairing. *Three hours credit.*

Unit d. Half-goat bindings of magazines. Special unit on gold lettering, and an advanced unit in bookcrafts is presented. *Two hours credit.*

147a,b. PROBLEMS IN LEATHERWORK. *Two to five hours credit.*

Development of basic techniques in leatherwork. Tool designing and tool making for camps and school shops. Study of tanning and relation of work to other areas.

Unit a. *Three hours credit.*

Unit b. *Two hours credit.*

148a,b. GENERAL PLASTICS. *Two to five hours credit.*

An opportunity to become proficient in working with the many kinds of plastics for either a unit or general shop.

Unit a. *Two hours credit.*

Unit b. *Three hours credit.*

149. BOOKBINDING FOR SCHOOL LIBRARIANS. *Three hours credit.*

Opportunity to develop skills in library binding and repairing. A study of hand-made equipment, purchasing of supplies, and economical ways of binding books.

150d. ADVANCED FURNITURE AND CABINET MAKING. *Three hours credit.*

Prerequisites, 50a,b or equivalent. Emphasis on machine use. Students design and construct period and modern pieces of furniture. Study of production methods in industry. Advanced upholstery and woodfinishing techniques.

150e. WOODFINISHING. *Two hours credit.*

Prerequisite, 50a or equivalent. Techniques and processes in woodfinishing. Experience with traditional and new types of materials. A study of the needs of public school shops in this area of work.

151a. EQUIPMENT AND MAINTENANCE PROBLEMS IN WOOD. *Three hours credit.*

Prerequisites, 50 a,b,c. Upkeep and repair of woodworking tools and machines. Selection and purchase of woodworking tools, machines and supplies for a school shop.

151b. EQUIPMENT AND MAINTENANCE PROBLEMS IN METALS. *Three hours credit.*

Prerequisites, 55a, 57a or equivalent. Upkeep and repair of metalwork tools and machines. Selection and purchase of metalwork tools, machines and supplies for a school shop.

153a,b. WOODTURNING. *Two hours credit each.*

Prerequisite, 50a or equivalent.

Unit a. Development of basic skills in woodturning.

Unit b. The use of the lathe to supplement bench and machine woodwork.

155a. ELEMENTS OF MACHINE LATHE OPERATION. *Two hours credit.*

Prerequisite, 55a. An introductory unit concerned with the basic operations performed on a machine lathe including straight and taper turning, thread cutting, and other operations.

155b. ADVANCED MACHINE TOOL OPERATION. *Three hours credit.*

Prerequisite, 155a. Advanced course in machine lathe operation and elementary work with the shaper, milling machine and surface grinder.

157a. ELEMENTS OF JEWELRY WORK. *Two hours credit.*

Prerequisites, 55a, 57a or equivalent. An introduction into the basic process of jewelry construction including silver soldering, sawing, filing, ring constructions, simple silversmithing and setting stones.

157b. ADVANCED JEWELRY AND LAPIDARY WORK. *Three hours credit.*

Prerequisite, 157a. This course is designed to give advanced work in jewelry construction and silversmithing with the student cutting and polishing his own setting as an introduction to lapidary work.

161d,e,f. PRINCIPLES OF DRAFTING. *Two to seven hours credit.*

Prerequisites, 61 a,b,c. Practical problems in drafting and planning as accomplished in the following courses:

Unit d. Intersections and pattern development. *Two hours credit.*

Unit e. Beginning architectural drafting. *Three hours credit.*

Unit f. Machine drafting and graphic methods in education. *Two hours credit.*

163a,b. GENERAL SHOP ELECTRICITY. *Two to five hours credit.*

Elementary principles of electricity that are applicable to projects in the junior and senior high schools. An opportunity will be given to make such projects. Second course will include a unit on house wiring.

Unit a. *Two hours credit.*

Unit b. *Three hours credit.*

232. IMPROVEMENT OF INSTRUCTION IN THE ARTS. *Three hours credit.*

An analysis of current difficulties and weaknesses in teaching the arts. Curriculum problems, objectives, methods and administrative and community pressures are studied.

233. MATERIALS OF INDUSTRY. *Three hours credit.*

A study of the origin of the materials used in industrial arts classes and processes involved in the manufacture of each material. Methods of presenting the related information and consumer knowledge of each material area are considered.

234. HISTORY OF INDUSTRIAL ARTS. *Four hours credit.*

A study of the origin, movements, and leaders responsible for theories and philosophies of industrial arts. First half of course includes studies up to 1870; second half deals with progress from 1870 to the present.

235. PHILOSOPHY OF INDUSTRIAL ARTS. *Three hours credit.*

Prerequisite, 234 or equivalent. A study of the conflicts in the teaching of industrial arts. Relationship of philosophy to actual practice.

236. PRINCIPLES OF GENERAL SHOP ORGANIZATION. *Three hours credit.*

The purposes and philosophy underlying the organization of general shops.

237. DEVELOPMENT OF INSTRUCTIONAL AIDS IN INDUSTRIAL ARTS. *Three hours credit.*

Visual aids, instruction sheets, charts, graphs, and other instructional devices are planned and developed. The student will select, plan, and construct, where appropriate, various instructional aids.

238. CURRENT THEORY AND PRACTICE IN THE ARTS. *Three hours credit.*

Current controversial issues which confront the teacher of the arts: problems of standardization, laboratory organization, administrative and community attitudes, and correlation with other departments.

239. ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION. *Three hours credit.*

A study of the purposes and programs of industrial education in secondary schools, including industrial arts and vocational-industrial education. Special emphasis upon the program of vocational-industrial education as provided through the Smith-Hughes Act, the George-Dean Act, and other pieces of federal legislation.

240. COURSE ORGANIZATION IN INDUSTRIAL ARTS. *Three hours credit.*

Criteria underlying the organization of a course of study in industrial arts. Techniques by which courses are developed or revised. Each student prepares a course of study in the field of his interest.

241. THE PLACE OF THE ARTS IN GENERAL EDUCATION. *Three hours credit.*

Incorrect concepts of the different areas of the arts are studied. Philosophies, objectives and current methods of teaching the arts are presented.

242a,b,c. ADVANCED THEORY AND PRACTICE OF TYPOGRAPHIC DESIGN. *Three hours credit each.*

Prerequisites, 141a,b,c or equivalent. Treats printing as a great art and deals with the origin, development and application of the principles of design in the field of typography.

247. ADVANCED CONSTRUCTION PROBLEMS. *Three hours credit.*

Prerequisites, 50a,b,c or equivalent. A course for advanced woodworking students with emphasis on application of steel square to construction problems.

248a,b. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN BOOKBINDING. *Three hours credit each.*

Methods of relating the bindery to the library and the classroom. Organization of binding as a general shop unit. Development of courses to meet individual needs. Second course provides opportunity to do creative work in gold and leather on bindings.

250. CONTEMPORARY FURNITURE DESIGN AND FABRICATION. *Five hours credit.*

A brief introduction of recognized periods of furniture design leading to the present concept of functionalism and the techniques of fabricating contemporary design.

254. THE ARTS IN RECREATION. *Three hours credit.*

The organizing of various types of craft work for a recreational program. Problems of finance; opportunity to develop proficiency.

255. THE USE OF NEW MATERIALS. *Three hours credit.*

A study of the newer materials of industry and methods of adapting them for use on both junior and senior high school levels.

256. ADVANCED ART METAL. *Three hours credit.*

Prerequisites, 55a, 57a or equivalent. This will be an advanced course in art metal and metal spinning including work in extreme raising, repousse, chasing, use of sectional chucks and others.

257. ADVANCED GENERAL METALWORK. *Three hours credit.*

Prerequisite, 55a or equivalent. This shall serve as an advanced course in bench metalwork, machine lathe, welding, jewelry and lapidary work. This will include an elementary unit in foundry work in the casting of aluminum.

258. ADVANCED LEATHERCRAFT. *Three hours credit.*

Prerequisite, 255 or equivalent. Advanced techniques in leathercraft. Methods of organization and teaching problems. Development of course material suitable to a unit or general shop.

259. ADVANCED PLASTICS. *Three hours credit.*

Prerequisite, 255 or equivalent. Advanced work in the field of plastics. Fabrication of projects for a unit or general shop, together with methods of organizing such work. Development of a course suitable to a general shop.

264. INDUSTRIAL ARTS DESIGN. *Three hours credit.*

Principles of design as they apply to the several areas of industrial arts.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and research in the arts. Criteria for the selection of graduate work in industrial arts for subsequent quarters. Study of research techniques. Required of all graduate majors in Industrial Arts. Taught jointly with Home Economics and Fine Arts majors.

301. SEMINAR IN INDUSTRIAL ARTS. *Three hours credit.*

An opportunity for students doing independent research to report and receive criticism.

302. A CRITIQUE OF MODERN INDUSTRIAL ARTS. *Three hours credit.*

A course in which several instructors participate. Men of divergent points of view present and defend ideas of common interest to today's industrial arts teacher.

322. INDIVIDUAL STUDIES IN INDUSTRIAL ARTS. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

Opportunity for independent study not provided in regular classes. Open only to qualified students. Typewritten paper required.

333a,b,c. INDIVIDUAL PROBLEMS IN INDUSTRIAL ARTS. *One to four hours credit for one problem; a maximum of twelve hours credit is permitted.*

Open to selected students for special work not offered in regular classes.

343. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN THE GRAPHIC ARTS. *Three hours credit.*

The techniques and objectives of the graphic arts; their historical development and place in our cultural background; art in printing; shop planning, equipment and management; course content and organization.

344. PROBLEMS OF DESIGN IN THE GRAPHIC ARTS. *Three hours credit.*

Course is centered around graphic arts problems found in individual projects, with emphasis upon methods of teaching students to recognize, appreciate and use the principles of design on the printed page.

351. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN WOODWORKING. *Three hours credit.*

Prerequisites, 50a,b,c or equivalent. Critical study of current practices. A "refresher" course for teachers who have been away from the field. Includes techniques in both bench and machine work.

352. PROBLEMS IN WOODWORKING. *Three hours credit.*

Prerequisite, 351 or equivalent. A study of the problems the specialized teacher of woodworking in secondary schools must meet.

359. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN METALWORK. *Three hours credit.*

Prerequisites, 55a, 57a or equivalent. This course shall include objectives, course content, shop organization, evaluation and methods of teaching the various phases of metalwork.

360. PROBLEMS OF THE METAL SHOP. *Three hours credit.*

Prerequisite, 359 or equivalent. Advanced course in the organization of both unit and general metal shops and shop practice handled on the seminar basis, giving the graduate students an opportunity to work on problems they have confronted in the field.

362a,b. PROBLEMS IN DRAFTING AND PLANNING. *Three hours credit each.*

Prerequisites, 61a,b,c. Objectives, course content, and teaching procedures of all units in drafting. Courses are set up in terms of individual needs.

368a,b. ADVANCED ARCHITECTURAL DRAFTING. (Summer Session only.) *Four hours credit each.*

Prerequisite, 161e or equivalent. Advanced home and school building planning. Laws, standards, and computation of cost. Open to school administrators as well as industrial arts teachers.

399. THESIS. *Eight hours credit.*

Division of Education

The Division of Education offers the following programs:

1. An undergraduate and graduate major in Elementary Education.
2. An undergraduate major in General Secondary leading to the Bachelor of Arts degree in the Division of Education for students who do not select a major in any one of these Divisions—Arts, Health and Physical Education, Humanities, Music, Sciences, Social Studies. This program requires one of the following two plans: (a) four subject matter minors of at least 24 quarter hours each in four different teaching fields or (b) three subject matter minors of at least 35 quarter hours each in three different teaching fields.
3. A graduate major in Educational Administration.
4. A graduate major in Educational Psychology and Guidance.
5. A graduate major in Secondary Education.
6. An undergraduate and graduate major in Business Education.
7. A minor in Library Science.

GENERAL SECONDARY MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. Three subject matter minors of at least 35 quarter hours each in three teaching fields.

(or)

Four subject matter minors of at least 24 quarter hours each in four teaching fields.

Programs must be planned with the student's adviser in the Division of Education. Students starting this major should consult first with the Chairman of the Division of Education.

ELEMENTARY EDUCATION MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed below.

3. 52 to 59 quarter hours of electives to complete 180 quarter hours of academic credit required for graduation. Electives will be selected in consultation with the Adviser to Elementary Majors from these fields: art, English, geography, history, home economics, music, science, and sociology.

Elementary Education majors will find it valuable to be able to play simple piano accompaniments. Students may enroll for group piano instruction.

Programs must be planned with the student's adviser.

ELEMENTARY EDUCATION MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
Ed. 210	Improvement of Instruction in Reading in the Elementary School	- - - -	3
Ed. 211	Improvement of Instruction in Language in the Elementary School	- - - -	3
Ed. 211e	Teaching Handwriting and Spelling in the Elementary School	- - - -	2
Ed. 212	Improvement of Instruction in Arithmetic in the Elementary School	- - - -	3
Ed. 213	Improvement of Instruction in Social Studies in the Elementary School	- - - -	3
Eng. 221	Literature in the Elementary School	- - - -	3
F.A. 124	Art in the Elementary School	- - - -	5
Geog. 48	United States	- - - -	4
H.P.E. 88a,b,c	Physical Education Activities for the Elementary School	- - - -	4
H.P.E. 201	Health Education in the Elementary School	- - - -	4
Hist. 75	Unit Survey of United States History	- - - -	4
Mus. 149	Music Methods and Materials for Elementary Teachers	- - - -	3
Sci. 191	Methods of Teaching Science in the Elementary School	- - - -	4
Sp. 112	Children's Theater	- - - -	-
	or		
Sp. 117	Oral Interpretation	- - - -	3
			48

Elementary Education Minor

Course Number	Course Title	Hours	Credit
Eng. 221	Literature in the Elementary School	- - - -	3
F.A. 124	Art in the Elementary School	- - - -	5
Mus. 149	Music Methods and Materials for Elementary Teachers	- - - -	3
H.P.E. 88a,b,c	Physical Education Activities for the Elementary School	- - - -	4
Sci. 191	Methods of Teaching Science in the Elementary School	- - - -	4
Ed. (elective) ‡		- - - -	6
			25

‡Selection may be made from Ed. 210, 211, 212, 213.

Nursery School Minor

Course Number	Course Title	Hours	Credit
Ed. 260	Development and Guidance of the Young Child	- - - -	3
Ed. 261	Participation in Preschool	- - - -	3
Ed. 264	Workshop in Preschool	- - - -	3
H.E. 98	Elementary Nutrition	- - - -	3
H.E. 181	Infant and Child Care	- - - -	4
Sp. 16	Voice and Diction	- - - -	4
Electives		- - - -	4
			24

Recommended Electives for Nursery School Minor

Course Number	Course Title	Hours	Credit
Ed. 240	Parent Education	- - - -	2
Ed. 262	Kindergarten Education	- - - -	5
H.E. 180	Family Relationships	- - - -	3
Sp. 164	Introduction to Remedial Speech	- - - -	3
Sp. 265a	Remedial Speech Laboratory	- - - -	1

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section in this yearbook. Course work will be outlined by the student's major professor.

Library Science Minor

The following program offers 24 quarter hours of credit to meet the North Central Association requirements for a teacher-librarian in a high school having a student enrollment of 499 or less.

The following courses are required:

Course Number	Course Title	Hours	Credit
Ed. 280	Organization and Administration of a School Library	- - - -	4
Ed. 281	Classification and Cataloging	- - - -	4
Ed. 282a	Materials for School Libraries	- - - -	4

The remaining twelve hours may be selected from the following courses:

Ed. 208a	Audio-Visual Materials in Education	- - - -	4
Ed. 282b	Materials for School Libraries	- - - -	4
Eng. 221	Literature in the Elementary School	- - - -	4
Eng. 226	Literature and Materials in the Secondary School	- - - -	4
I.A. 149	Bookbinding for School Librarians	- - - -	3

Elementary teachers may elect the above library courses.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

25. GENERAL PSYCHOLOGY AND PERSONAL ADJUSTMENT. *Five hours credit.*

Designed to help students adjust to their physical and social environment in such areas as effective study, learning and maturation, motivation, perception, emotional control, personality development, and methods of studying human behavior through an understanding and application of some of the basic principles governing human behavior.

26. CAMP FIRE GIRLS' LEADERSHIP. *Two hours credit.*

Training for leadership in educational, character-building extracurricular activities for girls. The course leads to the National Training Course Certificate of the Camp Fire Girls.

27. BOY SCOUT LEADERSHIP. *Two hours credit.*

Designed to give students a general knowledge of the aims and content of the Boy Scout program, with emphasis on the methods that can be used to teach the program to boys.

28. GIRL SCOUT LEADERSHIP. *Two hours credit.*

General knowledge of the aims and content of the Girl Scout program. Designed especially for young women interested in becoming leaders of Girl Scout troops.

52. TEACHING OF READING AND ARITHMETIC IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Deals with approved methods and materials useful for teaching reading and arithmetic in rural or small elementary schools.

55. TEACHING OF HISTORY AND GEOGRAPHY. (Summer Session only.) *Four hours credit.*

A methods course in teaching history and geography in the elementary school as separate subject matter courses or as a unified social studies course.

77. PSYCHOLOGY OF CHILDHOOD AND YOUTH. *Three hours credit.*

Prerequisite, Ed. 25 or equivalent. A course designed to assist prospective teachers to build competence in understanding and guiding the physical, mental, social, and emotional development of children and youth; emphasizes total psychological development from school age to maturity.

78. EDUCATIONAL PSYCHOLOGY. *Three hours credit.*

Prerequisites, Ed. 25, 77 or equivalent. A course designated to assist prospective teachers to build competence in directing pupil learning based upon psychological principles of learning, motivation, readiness, practice, transfer, individual differences, and evaluation.

85. COMMUNITY LIFE AND PROBLEMS. *Three hours credit.*

Prerequisite, Ed. 25. Sophomore required for teaching credential. Designed to give prospective teachers an experience in study of typical kinds of community life. Each student will elect to participate during the term in some community activity or to make a simple type of community survey.

§88a. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) *Two hours credit. (One hour lecture, one hour laboratory, one hour outside assignment.)*

For description of this course, see page 100.

§88b. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) *One hour credit. (Two hours laboratory, one hour outside assignment.)*

For description of this course, see page 100.

§88c. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) *One hour credit. (Two hours laboratory, one hour outside assignment.)*

For description of this course, see page 100.

105. AMERICAN EDUCATION. *Three hours credit.*

Prerequisites, Ed. 77, 85 or equivalent. Junior required for teaching credential. Objectives of education, techniques of educational thinking, characteristics and trends in the American school system, the general program of education, levels of education, federal-state-local relations, problems of teacher education, and welfare.

120. INDIVIDUAL EDUCATIONAL RESEARCH. *Two to eight hours credit.*

Qualified undergraduate students outline and spend a minimum of twenty-five clock hours per quarter hour on a problem. Two copies of a well-written paper must be filed before credit is given, one with instructor and one with chairman of division.

150a. INTRODUCTION TO STUDENT TEACHING IN THE ELEMENTARY SCHOOL. *Five hours credit.*

Prerequisites, Ed. 78, 105. Directed participation in a teaching situation two hours per day, five days per week, under the supervision of a master elementary teacher in the Laboratory School. To be taken concurrently with Ed. 214.

150b. INTRODUCTION TO STUDENT TEACHING IN THE SECONDARY SCHOOL. *Two hours credit.*

Prerequisites, Ed. 77, 78, 105, 216. Student is assigned to a specific class in his major and minor area under the supervision of a master teacher in the Laboratory School. He will meet with the class and the supervising teacher five days per week and arrange for one additional conference hour. To be taken concurrently with Ed. 150c; arrangements for assignment should be made with the Director of the Laboratory School before planning other work for the quarter.

150c. METHODS OF TEACHING IN THE SECONDARY SCHOOL. (Industrial Arts, English, Foreign Languages, Speech, Science, Mathematics, Business Education, Social Studies.) *Three hours credit.*

Methods of teaching in the junior-senior high school. Curriculum and classroom organization, testing and evaluation, procedures and materials, relationship of the special area to the total secondary program. Teaching techniques are a point of emphasis. To be taken concurrently with Ed. 150b.

150d. OBSERVATION AND PARTICIPATION IN ELEMENTARY SCHOOL MUSIC. *Three hours credit.*

Prerequisites, Ed. 105 and Music 50c. For further and more concentrated experience in school music on the elementary level. The student actively participates in the classes in which he observes, and studies classroom teaching procedures and methods and values with an eye to his own future student teaching.

150e. OBSERVATION AND PARTICIPATION IN SECONDARY SCHOOL MUSIC. *Two hours credit.*

Prerequisites, Ed. 105 and Music 50c. Advanced methods and instructional problems in high school music teaching, observation and participation in a designated music class in college or high school; class discussion of students' problems occurring in observation and participation.

150g. METHODS AND OBSERVATION OF TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, junior standing and all required divisional courses numbered under 100. A study of mental, emotional, physical and social needs of children of elementary school age levels, and the planning of a program, selection of materials and methods of teaching physical education at these levels.

150h. METHODS AND OBSERVATION OF TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL. *Two hours credit.*

Prerequisite, junior standing and all required divisional courses numbered under 100. A study of planning, materials, and methods in physical education for the secondary school based on mental, physical, and social needs of the student at various age levels.

150i. INTRODUCTION TO STUDENT TEACHING IN HOME ECONOMICS. *Two hours credit.*

This course must be taken with or following Ed. 150j. Students observe classes and participate directly in teaching individuals and groups of pupils in the Laboratory School. Experiences in planning with pupils supervising their activities and evaluating progress are included. Students become familiar with teaching aids and procedures.

150j. METHODS AND OBSERVATION OF TEACHING HOME ECONOMICS IN THE SECONDARY SCHOOL. *Three hours credit.*

The course is planned for Home Economics majors. It is a study of the philosophy of homemaking education, organization of the curriculum, methods and techniques of teaching homemaking, selection and use of teaching aids and evaluation procedures.

150k. METHODS AND OBSERVATION OF TEACHING ART IN THE ELEMENTARY SCHOOL. *Three hours credit.*

A study of the methods of organizing and teaching art in the elementary school. Includes the observation of teaching techniques, the recognition of individual growth and levels of development, the evaluation of child art, and an acquaintance with the elementary school art materials and teaching aids.

150L. METHODS AND OBSERVATION OF TEACHING ART IN THE SECONDARY SCHOOL. *Two hours credit.*

Prerequisite, Ed. 105. Methods of teaching fine arts in the junior-senior high school. Classroom organization, the recognition of development and individual growth, techniques and materials, and teaching techniques are points of emphasis and observation.

151. STUDENT TEACHING. *Four to fifteen hours credit.*

Prerequisites: Elementary majors, Ed. 25, 52, 77, 78, 85, 105 and 150a; Secondary majors, Ed. 25, 77, 78, 85; methods and observation, 105, 216. Includes planning teaching, teaching under the direction of supervising teacher, evaluating teaching in conference with supervising teacher, improving teaching through repeated practice and re-evaluation, and participation in school and school-community activities.

152. INTERNSHIP IN ADVANCED STUDENT TEACHING. *One to eight hours credit.*

Prerequisite, Ed. 151. An invitational program for individuals showing professional promise following completion of regular student teaching assignment. Experience under the direct supervision of a Laboratory School supervisor.

§188. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) (Summer Session only.) *Four hours credit.*

For description of this course, see page 101.

§191. METHODS OF TEACHING SCIENCE IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 135.

§201. IMPROVEMENT OF SCIENCE INSTRUCTION IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 135.

§202. IMPROVEMENT OF SCIENCE INSTRUCTION IN THE SECONDARY SCHOOL. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 135.

§206. SPECIAL PROBLEMS IN TEACHING SCIENCE. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 135.

207. PERSONALITY OF YOUNG CHILDREN. *Two hours credit.*

Prerequisite, a course in psychology. The development of personality from birth through the elementary school years including techniques for developing fine traits, and methods of diagnosis and treatment of problems of personality development which arise in the home and school.

208a. AUDIO-VISUAL MATERIALS IN EDUCATION. *Four hours credit.*

Introduces students to most audio-visual materials and devices available for improving instruction; each type is demonstrated, and psychological basis for use is discussed as well as its characteristics, advantages and disadvantages; designed to be of value to all interested in education.

208b. AUDIO-VISUAL ADMINISTRATION WORKSHOP. *Three hours credit.*

A workshop designed for administrators and teachers interested in improving instruction through organizing effective and efficient administration and use of audio-visual devices. Problems of classroom layout and darkening, budgeting, selection, evaluation, scheduling and ordering, purchase, in-service instruction of teachers in utilization and projection and production of simple materials will be included.

208c. EDUCATIONAL RADIO AND TELEVISION WORKSHOP. *Three hours credit.*

Covers educational aspects of educational and commercial radio and television broadcasting, types of programs available for school use, problems of scheduling and using live broadcasting and telecasting, the use of records, tape recordings and transcriptions in improving instruction, the development and use of "audio" libraries and includes production of various types of radio programs.

210. IMPROVEMENT OF INSTRUCTION IN READING IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, Ed. 150a or public school teaching experience. A detailed consideration of the content to be taught and the methods and materials to be used in the teaching of reading from the kindergarten through the sixth grade.

210a. READING IN THE PRIMARY GRADES. *Four hours credit.*

The nature of reading, the curriculum in reading from the preparatory period through the primary grades, the selection of effective materials of teaching, methods and techniques of teaching, and the use of various types of tests.

210d. REMEDIAL READING IN THE ELEMENTARY SCHOOL (Theory). *Four hours credit.*

Prerequisite, a course in the teaching of reading. A lecture and demonstration course dealing with remedial reading from grades one through six, testing and diagnosis of problem cases, and techniques and devices for use in remedying the difficulties.

210e. LABORATORY COURSE IN REMEDIAL READING. *Four hours credit.*

This course must be taken concurrently or following Ed. 210d. A practice course with actual remedial cases with whom the techniques of diagnosis and treatment of reading difficulties are used.

210f. READING READINESS. *Two hours credit.*

Prerequisite, a general reading course or primary reading. Presents theories, research, and practices regarding readiness for reading in the first grade and on through the elementary school, as well as readiness for reading in the subject matter fields.

210g. TEACHING SPANISH-AMERICAN CHILDREN. (Summer Session only.) *Four hours credit.*

Prerequisite, Ed. 210 or 210a or both. The scope of bilingualism, methods, materials and techniques for teaching non-English speaking children, emphasizing foundational work in oral English for beginners, and a guidance program through the grades.

211. IMPROVEMENT OF INSTRUCTION IN LANGUAGE IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, Ed. 150a or public school teaching experience. This course is the basic course in the teaching of language in the elementary school. It considers the scope and nature of an adequate program of instruction in language, and is concerned primarily with the identification of content to be taught and methods and materials to be used.

211a. LANGUAGE IN THE PRESCHOOL AND PRIMARY GRADES. *Three hours credit.*

A course in oral language from preschool through grade three, and written lan-

guage and the related skills of spelling and penmanship from first grade through grade three. Curriculum content, materials, and techniques will be studied.

211e. TEACHING HANDWRITING AND SPELLING IN THE ELEMENTARY SCHOOL. *Two hours credit.*

The psychology and teaching of spelling and handwriting. Consideration is given to the research done in both subjects with special emphasis on the implications for classroom teaching.

212. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, Ed. 150a or public school teaching experience. Selecting what to teach, the grade placement of content, methods and materials of teaching, and means of evaluating achievement.

§213. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Education or Social Studies.) *Three hours credit.*

Prerequisite, Ed. 150a or public school teaching experience. Selection and organization of content, learning activities, problem solving, social skills and attitudes through the first six grades. Emphasis is placed upon materials and methods for teaching a unified and correlated social studies program.

214. THE ELEMENTARY SCHOOL. *Three hours credit.*

To be taken concurrently with Ed. 150a. The course deals with the following aspects of the elementary school: (1) its development and purposes, (2) its forms of organization, (3) the types of school records which the teacher uses, (4) problems of evaluating pupil progress and of promotion and retention, (5) the curricular offerings and the teacher's responsibility in determining these, (6) the members of the school staff and the teacher's relation to each.

215a. PRINCIPLES AND PHILOSOPHY OF GUIDANCE. *Three hours credit.*

Prerequisite, senior or graduate standing. Purposes and scope of guidance services, including meanings and concepts, basic elements of such services, the personnel involved, and the organization and evaluation of programs.

215b. TOOLS AND TECHNIQUES OF GUIDANCE. *Four hours credit.*

Prerequisite, senior or graduate standing. The study of the tools and techniques of guidance, including school records, measurement, interview, case study, group guidance, placement and follow-up, and the use of referral resources.

215c. OCCUPATIONAL INFORMATION AND ANALYSIS IN VOCATIONAL GUIDANCE. *Three hours credit.*

Experience in using, reviewing, and evaluating occupational information. Study of sources and types of material, occupational filing plans, and practical techniques at the secondary school level.

215d. GUIDANCE IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, senior or graduate standing. The purposes and scope of guidance at the elementary level, with emphasis placed on the functions of guidance in relation to children's needs, the functions of different guidance workers are indicated and an analysis is made of representative programs of elementary schools.

215e,f. GUIDANCE WORKSHOP. (Summer Sessions only.) *Three hours credit each.*

Prerequisite, senior or graduate standing. This course is designed to provide concentration of time and study on a special problem in guidance. The needs and interests of class members will determine to a certain extent the course content.

§215h. PSYCHOLOGY OF PERSONNEL MANAGEMENT. (Credit may be obtained in Business Education or Education.) *Four hours credit.*

For description of this course, see page 91.

216. THE SECONDARY SCHOOL. *Three hours credit.*

Prerequisite, Ed. 105. An introductory course orienting the beginning teacher to general problems of secondary education including: objectives, needs of youth, curriculum, student activities, guidance, and teaching methods.

216a. JUNIOR HIGH SCHOOL WORKSHOP. (Summer Sessions only.)
Three hours credit.

A practical problems course designed to deal with the organization, administration, and curriculum practices of the junior high school; based on the needs as determined by the participants in the workshop. Discussion topics will include guidance, homeroom practices, activities, time-allotment, subject matter areas, and functions of the junior high school.

216b. THE JUNIOR HIGH SCHOOL. *Three hours credit.*

The junior high school will be analyzed in terms of historic development and purpose. Current problems of administration, instruction, and student activities will be treated. A synthesis of desired junior high school practice will be developed.

217. EXTRACURRICULAR ACTIVITIES. *Three hours credit.*

Prerequisite, Ed. 105. Topics covered include school government, athletics, debating, literary and social clubs, school papers, musical and dramatic activities, and civic clubs and projects.

§218. AVIATION AND SPACE FLIGHT FOR TEACHERS. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 134.

227a. IMPROVING THE MARKING SYSTEM. *Two hours credit.*

An educational experience designed to familiarize teachers and administrators with various evaluating and reporting techniques and instruments being used in different secondary schools. Special emphasis will be given to the development of a marking and reporting system to be used in the individual's own school situation.

§228a. MENTAL HYGIENE AND EMOTIONAL ADJUSTMENT.
(Credit may be obtained in Education or Health and Physical Education.) *Three hours credit.*

Prerequisite, one course in psychology. A general course designed to give an understanding of the problems and principles of mental hygiene observed in normal community and school life.

228b. THE PSYCHOLOGY OF EXCEPTIONAL CHILDREN. *Three hours credit.*

Prerequisite, one course in psychology. A study of brilliant, retarded, physically handicapped, and emotionally maladjusted children, with emphasis on methods of adjusting instruction to the needs of these children.

228c. PSYCHOLOGY AND EDUCATION OF THE MENTALLY RETARDED CHILD. *Four hours credit.*

Prerequisite, Ed. 228b. A study of the social, emotional, physical and mental characteristics of the mentally retarded child; methods of diagnosis and classification. The organization of special class programs and special teaching procedures.

229. BASIC PRINCIPLES OF MEASUREMENT. *Three hours credit.*

A basic course dealing with principles of educational and psychological measurement applied to the construction and use of tests in the elementary and secondary schools.

229a. INSTRUMENTS AND TECHNIQUES OF MEASUREMENT AND EVALUATION. *Three hours credit.*

A study of the instruments and techniques, both standardized and informal, which are commonly used for measuring and evaluating the outcomes of instruction in the elementary and secondary schools.

229b. MEASUREMENT OF APTITUDES. *Three hours credit.*

A study of the measurement of aptitudes including special aptitudes as well as general intelligence. Major emphasis will be placed on the prediction of proficiency in various occupations and curriculums.

§230. CAMP LEADERSHIP. (Credit may be obtained in Health and Physical Education or Education.) *Three hours credit.*

For description of this course, see page 102.

236. TECHNIQUES OF TEACHING IN RURAL SCHOOLS. (Summer Session only.) *Four hours credit.*

Prerequisite, Ed. 25. This course offers opportunities to become familiar with and to evaluate new teaching techniques adapted to the instructional programs of rural schools.

237. COMPARATIVE EDUCATION. (Summer Session only.) *Four hours credit.*

The philosophy and practices of education in foreign countries, usually including education in Germany, France, Russia, Norway, Great Britain, China, Australia, Canada, Mexico and certain South American countries.

240. PARENT EDUCATION. *Two hours credit.*

This course deals with problems of starting and continuing programs of parent education in public schools. The selection of sponsoring organizations, organizing parent education groups, meeting the educational interests and needs in child study, home education, and home-school cooperation are emphasized.

241. ADMINISTRATION OF VILLAGE AND CONSOLIDATED SCHOOLS. *Three hours credit.*

A study of the problems of small schools from the administrative standpoint, such as curriculums, supervision, transportation, records, etc. For undergraduate subject matter majors and students with limited administrative experience. Students who elect this course should not take Ed. 342, 343, 344.

242a,b. SCHOOL ADMINISTRATION WORKSHOP. (Summer Sessions only.) *Three hours credit each.*

Problems in the field of school administration proposed by members of the workshop will be studied intensively on a group basis. Salary schedules, improvement of teachers in service, tenure, budgetary control are sample problems which lend themselves to intensive study.

243. SCHOOL LAW FOR TEACHERS. *Three hours credit.*

Law concerning the rights, duties and possible liabilities of teachers and the relationship from a legal point of view of teachers and students, administrators, school boards, the public and public agencies.

245. CURRICULUM CONSTRUCTION. *Three hours credit.*

An appraisal of theories and practices of curriculum making; presentation of a modern, functional philosophy of curriculum making; and survey of the applications of this functional theory to the major areas of living. (First of sequence in curriculum: Ed. 245, 246, 247.)

245b. SPECIAL PROBLEMS IN CURRICULUM IN THE ELEMENTARY AND SECONDARY SCHOOL. (Summer Sessions only.) *Three hours credit.*

The purpose of this course is to give joint consideration to the applications of curriculum on both the elementary and secondary levels. The course will be taught jointly by two teachers, one a specialist in elementary education and the other a specialist in secondary education.

246. ADVANCED CURRICULUM CONSTRUCTION. *Three hours credit.*

This course discusses what to teach in the major areas of living including communication, health, economic life, home and family life, citizenship, leisure, religious-moral experience and personality development. Second of sequence in curriculum.

247. EDUCATIONAL SOCIOLOGY AND COMMUNITY ORGANIZATION. *Three hours credit.*

Surveys and appraises the implication of outside-the-school cultural agencies, and attempts to help administrators and teachers utilize the resources of the community in a broad educational program in and out of the school. Third of sequence in curriculum.

248. WORKSHOP IN COMMUNITY PROBLEMS. *Three hours credit.*

Provision is made for students to work on individual problems relating to the community. A carefully organized project is required.

249. PROBLEMS OF INTERGROUP RELATIONS. *Two hours credit.*

A course dealing with the evidence as to all types of intergroup relations—race,

nationality, minority groups, income groups, urban and rural groups—and with methods of teaching and measuring intergroup relations.

§251. SPEECH FOR THE CLASSROOM TEACHER. (Credit may be obtained in Humanities or Education.) *Four hours credit.*

For description of this course, see page 118.

252. SUPERVISION OF BEGINNING TEACHERS. *Four to eight hours credit.*

Prerequisite, teaching experience and permission of instructor. A seminar, workshop approach designed to aid supervising teachers, coordinators, and principals in directing inexperienced teachers. Emphasis will be directed, toward the six professional roles of the teacher: the teacher (1) as the director of learning; (2) as a guidance counselor; (3) as a member of the school community; (4) as a liaison agent between the school and the community; (5) as a mediator of the culture; and (6) as a member of the profession. Professional laboratory experiences in the supervision of student teachers will be scheduled when possible in the Laboratory School. The written analysis of the workshop, laboratory phase of the program will constitute a practicum in supervision.

§255. CONSUMER EDUCATION IN THE SCHOOLS. (Credit may be obtained in Business Education or Education.) *Three hours credit.*

For description of this course, see page 92.

§260. DEVELOPMENT AND GUIDANCE OF THE YOUNG CHILD. (Credit may be obtained in Education or Home Economics.) *Three hours credit.*

The physical, emotional and social growth processes as they apply in understanding the total development of the child of nursery and preschool years. A short study of the functions, procedures and physical setting of the nursery school and preschool is included. Students must be able to arrange two hours per week for observation and participation in nursery school or preschool. Actual participation in the use of good guidance procedures is emphasized in these experiences.

§261. PARTICIPATION IN PRESCHOOL. (Credit may be obtained in Education or Home Economics.) *Three hours credit.*

Prerequisite, Ed. 260 or permission of instructor. Experience with children in the nursery and preschool situation supplemented by readings and discussions. Emphasis on child growth, through children's interests and activities.

262. KINDERGARTEN EDUCATION. *Five hours credit.*

A course covering the research, theory, and best practices for the education in kindergartens of four- and five-year-old children. Organization, housing, and equipping of new kindergartens, the readiness program for first grade, and parent education will have pertinent handlings within the course.

263. ADMINISTRATION AND SUPERVISION OF THE ELEMENTARY SCHOOL. *Three hours credit.*

This course deals with types of elementary school organization, administrative relationships of principal to superintendent and teachers, administration of school services, theory and practice in grouping and grading pupils, promotion-retention policies, supervision of instruction, in-service education of teachers, and school-community relationships. Emphasis is on selection, use and evaluation of supervisory techniques.

§264. WORKSHOP IN PRESCHOOL. (Credit may be obtained in Education or Home Economics.) *Three hours credit.*

Prerequisite, Ed. 260. A study of the materials of nursery and preschool as they are needed and prepared by the teacher. Musical and dramatic play instruments, paint, clay and related art materials are utilized. Their sources, construction and arrangement are emphasized.

§268. TECHNIQUES OF REMEDIAL SPEECH IN THE CLASSROOM. (Credit may be obtained in Humanities or Education.) *Four hours credit.*

For description of this course, see page 118.

270. TECHNIQUES OF ADULT EDUCATION. *Two hours credit.*

This course will emphasize the development of adult education movements in this country, the psychology and philosophy of adult education, and methods and techniques in practical application.

§271. SAFETY EDUCATION. (Credit may be obtained in Health and Physical Education or Education.) *Three hours credit.*

For description of this course, see page 103.

272. PRINCIPLES OF VOCATIONAL EDUCATION. *Three hours credit.*
A study of the philosophy and development of vocational education, legislation, state policies, school programs, and non-school agencies and programs.

272a,b,c. WORKSHOP IN VOCATIONAL EDUCATION. (Summer Sessions only.) *One to three hours credit.*

The workshop in vocational education is set up to help school people work out the problems of organizing and administering vocational education. Particular attention is given to local, state and federal relationship under existing legislation.

§275. ELEMENTARY STATISTICS. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 144.

277. CHILD PSYCHOLOGY. *Three hours credit.*

A study of the growth, adjustments, and capacities of children from conception through the elementary school years. Emphasis is placed upon what to do in guiding the development of normal children.

278. PSYCHOLOGY OF ADOLESCENCE. *Three hours credit.*

Prerequisite, senior or graduate standing. With emphasis on the total personality, this course deals with the adolescent in terms of his physical, mental, social and emotional growth and development, and suggests methods of guiding the adolescent toward a wholesome realization of his potentialities.

§279a. ORGANIZATION AND ADMINISTRATION OF THE ARTS PROGRAM. (Credit may be obtained in The Arts or Education.) *Four hours credit.*

For description of this course, see page 54.

§279b. ADMINISTRATION AND SUPERVISION OF THE MUSIC PROGRAM. (Credit may be obtained in Music or Education.) *Three hours credit.*

For description of this course, see page 127.

280. ORGANIZATION AND ADMINISTRATION OF A SCHOOL LIBRARY. *Four hours credit.*

This course includes a consideration of order and circulation procedures, supervising student personnel, the role of the librarian in the development of curriculum and guidance programs, the relationships of the librarian with teachers and administrators and with other local and state agencies.

281. CLASSIFICATION AND CATALOGING. *Four hours credit.*

In this course the student learns the fundamentals of classification according to the Dewey System and the construction of a dictionary catalog for the school library. It will include all necessary processes from the time books are acquired until they are ready for circulation. Attention is also given to the library care of pamphlets and audio-visual materials.

282a. MATERIALS FOR SCHOOL LIBRARIES. *Four hours credit.*

Evaluation of materials for school libraries. Study and principles of book selection, book selection aids and discussion of reading levels and interests of young people.

282b. MATERIALS FOR SCHOOL LIBRARIES. *Four hours credit.*

Discussion of reference work and materials including compilation of bibliographies for classroom use.

§289. SOCIODRAMA. (Credit may be obtained in Social Studies or Education.) *Three hours credit.*

For description of this course, see page 154.

§290. SOCIOMETRY. (Credit may be obtained in Social Studies or Education.) *Two hours credit.*

For description of this course, see page 154.

§291. SOCIAL PSYCHOLOGY. (Credit may be obtained in Social Studies or Education.) *Two hours credit.*

For description of this course, see page 154.

292. HIGHER EDUCATION IN THE UNITED STATES. *Three hours credit.*

An overview of the history, philosophies, curriculums, organization, and administration of American colleges and universities with emphasis on their present status and problems.

293. THE JUNIOR AND COMMUNITY COLLEGE. *Three hours credit.*

Prerequisite, Ed. 105. The history, functions, present status, and problems of the junior college and the community college.

§294. CRITICAL THINKING. (Credit may be obtained in Humanities or Education.) *Four hours credit.*

For description of this course, see page 118.

295. PHILOSOPHY OF EDUCATION. *Three hours credit.*

Prerequisites, Ed. 105 and 214 or 216. Educational aims, values and criteria, democracy and education, different systems of educational philosophy, the nature of thinking, method and subject matter.

296. HISTORY OF MODERN EDUCATION. *Three hours credit.*

This course is based on the material in the most recent texts on history of education with emphasis on modern education.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students who expect to receive the degree of Master of Arts.

301. PRACTICUM. *Three or four hours credit.*

Open only by invitation to resident graduate students. This course includes practical professional activity of at least two hours daily for one quarter for three or four hours of credit in school administration, counseling, experimental methodology or other areas of education and psychology. In addition to the laboratory experience, the student is required to present an extensive written report emphasizing a review of the literature about the project, procedures used, and conclusions reached. The report must be typewritten and, after being approved by the instructor, filed in the Graduate Office.

§303. SEMINAR IN SCIENCE EDUCATION. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course, see page 135.

§305. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE SECONDARY SCHOOL. (Credit may be obtained in Social Studies or Education.) *Three hours credit.*

For description of this course, see page 149.

§308g. WORKSHOP IN THE PRODUCTION OF AUDIO-VISUAL MATERIALS. (Summer Session only.) (Credit may be obtained in Education or The Arts.) *Four hours credit.*

A laboratory course in which the student selects concepts needing illustration from instructional problems and produces audio-visual materials to illustrate these concepts. Materials produced include charts, graphic materials, models, exhibits, slides, recordings, and filmstrips.

310. IMPROVEMENT OF INSTRUCTION IN READING IN THE ELEMENTARY SCHOOL. (Summer Session only.) *Four hours credit.*

Prerequisite, graduate status. A detailed consideration of the content to be taught and the methods and materials to be used in the teaching of reading from the kindergarten through the sixth grade. The material in this course is presented on an advanced graduate level.

310a. SPECIAL PROBLEMS IN THE SUPERVISION OF READING. *Three hours credit.*

Prerequisite, Ed. 210. This seminar course covers important problems in the teaching and supervision of reading in the elementary school, varying somewhat in content from year to year. Problems pertaining to such matters as the con-

ment of an adequate instructional program in reading, independence in word identification, meaning difficulties in reading, the selection and use of textbooks and other instructional aids, and the construction of lessons on important skills usually are included.

311. IMPROVEMENT OF INSTRUCTION IN LANGUAGE IN THE ELEMENTARY SCHOOL. (Summer Session only.) *Four hours credit.*

Prerequisite, graduate status. This course is the basic course in the teaching of language in the elementary school. It considers the scope and nature of an adequate program of instruction in language, and is concerned primarily with the identification of content to be taught and methods and materials to be used. The material in this course is presented on an advanced graduate level.

311a. SPECIAL PROBLEMS IN THE SUPERVISION OF LANGUAGE.
Three hours credit.

Prerequisite, Ed. 211. This seminar course will cover important problems in the teaching and supervision of language in the elementary school, varying slightly from year to year. Problems pertaining to such matters as the content of an adequate instructional program in language, speaking and writing clearly and exactly, the mechanics of expression, creative writing, the selection and use of textbooks and other instructional aids, and the construction of lessons on important items usually are included.

312. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN THE ELEMENTARY SCHOOL. (Summer Session only.) *Four hours credit.*

Prerequisite, graduate status. Selecting what to teach, the grade placement of content, methods and materials of teaching, and means of evaluating achievement. The material in this course is presented on an advanced graduate level.

312a. SPECIAL PROBLEMS IN THE SUPERVISION OF ARITHMETIC.
Three hours credit.

Prerequisite, Ed. 212 or equivalent. A seminar course which covers the important problems in the teaching and supervision of arithmetic in the elementary school. The content may vary slightly from year to year depending upon the interests of the students enrolled.

§313. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Education or Social Studies.) (Summer Session only.) *Four hours credit.*

Prerequisite, graduate status. Selection and organization of content, learning activities, problem solving, social skills and attitudes through the first six grades. Emphasis is placed upon materials and methods for teaching a unified and correlated social studies program. A study of the literature and techniques of research in the area of the graduate major. The material in this course is presented on an advanced graduate level.

§313a. SPECIAL PROBLEMS IN THE SUPERVISION OF SOCIAL STUDIES. (Credit may be obtained in Education or Social Studies.)
Three hours credit.

This is a seminar course. It is based on the interests and needs of students who enroll in the course. Current trends in curriculum improvement, supervisory objectives and techniques in current use, recent research in methodology, areas of living, social growth and development of children, and the administration of the emerging curriculum are typical topics of interest.

314a. CONSTRUCTION OF COURSES OF STUDY IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, graduate status. A consideration of problems involved in constructing courses of study; selection of personnel for authorship; statement of objectives; and organization of content and learning experiences. Criteria will be set up for evaluating courses of study in specific, subject matter areas.

314b. THE ELEMENTARY SCHOOL CURRICULUM. *Three hours credit.*

Prerequisite, graduate status. Surveys and appraises the various types of curriculum organization applicable to the elementary school. Also considers basic curriculum problems in selected subject matter areas.

315a. ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES. *Three hours credit.*

The organization and administration of guidance services in the public school

system, with emphasis being placed on types of organizations, use of records, in-service training of workers, evaluation, and the role of various staff members.

315b. COUNSELING TECHNIQUES. *Three hours credit.*

Prerequisite, at least one course in guidance. An intensive study of the use of the interview for all guidance purposes. Emphasis is given to such approaches as the "directive," "nondirective," and "eclectic" methods, with opportunity provided for their application.

315c. PERSONNEL WORK IN COLLEGES AND UNIVERSITIES. *Three hours credit.*

Prerequisite, graduate status. General discussion of the administrative principles and functions of student personnel work including admission policies, college orientation, housing, program planning, and interpretation of tests.

315d. CLINICAL METHODS IN COUNSELING. *Four or five hours credit.*

Prerequisites, Ed. 215a, 215b, 228a, 315b, and 327. A survey of and practice in clinical methods in counseling and psychotherapy in relation to mental deficiency, special abilities and disabilities, behavior problems, and personality disorders.

316. SECONDARY EDUCATION. *Three hours credit.*

An advanced course in secondary education concerned with specific problems in the areas of: the evolution of secondary education, student activities, curriculum, guidance, measurement, marking, reporting, evaluation and most recent educational practices. Emphasis is placed upon outstanding personalities, professional literature, and findings of regional and national surveys, committees, and commissions.

322. INDIVIDUAL STUDIES IN EDUCATION. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

Qualified students outline a definite problem and spend a minimum of twenty-five clock hours for each quarter hour of college credit. Two typewritten copies of a well-written paper must be filed before credit is given, one with the instructor who directs the study and one with the Director of the Graduate School.

327. PERSONALITY DEVELOPMENT. *Three hours credit.*

Prerequisites, Ed. 25 and teaching experience or its equivalent. The course is designed to build an understanding of the psychological factors and principles underlying personality development and adjustment.

328. GROUP DYNAMICS IN HUMAN RELATIONS. *Three hours credit.*

Prerequisite, Ed. 228a. A course designed to give an understanding of the principles of group dynamics as applied to group situations including the classroom.

329a. INDIVIDUAL TESTS OF INTELLIGENCE. *Three hours credit.*

Prerequisite, consent of instructor. The history and description of the Revised Stanford-Binet Intelligence Scale, the Wechsler-Bellevue Intelligence Scale and the Wechsler Intelligence Scale for Children; their use in schools, and the interpretation of results.

329b. LABORATORY COURSE IN INDIVIDUAL TESTS OF INTELLIGENCE. *Two hours credit.*

Prerequisites, Ed. 329a and consent of instructor. This course provides laboratory experience in administering any one of the following individual tests of intelligence: the Revised Stanford-Binet Intelligence Scale, the Wechsler-Bellevue Intelligence Scale and the Wechsler Intelligence Scale for Children.

§341. PUBLIC FINANCE (Credit may be obtained in Social Studies or Education.) (Summer Session only.) *Four hours credit.*

For description of this course, see page 150.

342. SCHOOL ADMINISTRATION—FEDERAL, STATE, LOCAL. (First course.) *Five hours credit.*

Prerequisites, 12 hours in education and experience. Federal relations to education, the state as the fundamental educational unit, local administrative units, duties and the powers of the superintendent, and the administration of personnel.

343. SCHOOL ADMINISTRATION—SCHOOL FINANCE. (Second course.) *Five hours credit.*

Prerequisites, 12 hours in education and experience. Child accounting, business

administration, preparation and use of the budget, cost accounting and fiscal control, indebtedness, short-time borrowing, and bonds.

344. SCHOOL ADMINISTRATION—SCHOOL BUILDINGS. (Third course.) *Three hours credit.*

Prerequisites, 12 hours in education and experience. School building plans, specifications, construction, maintenance, operation, insurance, and purchase and care of supplies and equipment.

345. PRACTICE IN SCHOOL ADMINISTRATION. *Three to six hours credit.*

Selected graduate students may study in a public school system under the joint supervision of the college and the superintendent of schools, on an individual program set up to provide each student practical experiences in public school administration suited to his needs. In addition to the laboratory experience, the student is required to present an extensive written report emphasizing a review of the literature about the project, procedures used, and conclusions reached. The report must be typewritten and, after being approved by the instructor, filed with the Director of the Graduate School.

346. SCHOOL BUILDING PROBLEMS. *Four hours credit.*

Prerequisite, Ed. 344. Technical problems in building school plants, types of material and mechanical equipment, construction practices and supervision of construction. Includes interpretation of blueprints and specifications.

350. PRINCIPLES AND PRACTICES IN TEACHER EDUCATION. *Two hours credit.*

An orientation course designed primarily for first-year faculty members. The philosophy, organization and administration of the college are studied, including the instructional divisions, student personnel, public relations, business and finance, laboratory school, graduate school, instructional materials.

352. STUDENT SUPERVISION. *Three to eight hours credit.*

A laboratory course to give practical experience, under close supervision, in directing the work of the student teachers. Open to those students who are preparing for supervisory positions and show promise from student teaching or public school experience of undertaking such positions.

364. IMPROVEMENT OF ELEMENTARY SCHOOL INSTRUCTION. (For superintendents.) (Summer Session only.) *Four hours credit.*

This course for superintendents attempts to provide answers to three questions concerning each of the subjects commonly taught in the elementary school. These questions are: (1) What should be taught? (2) What methods and materials are effective? (3) How may pupil achievement be measured?

365a. JUNIOR-SENIOR HIGH SCHOOL ADMINISTRATION AND SUPERVISION. *Three hours credit.*

Prerequisite, Ed. 216 or its equivalent. This course covers the nature of secondary school administration; the duties and responsibilities of the principal; and deals specifically with a resource list of problems and practices of secondary school administrators.

365b. PROBLEMS IN JUNIOR-SENIOR HIGH SCHOOL ADMINISTRATION AND SUPERVISION. *Three hours credit.*

Prerequisite, Ed. 216 or its equivalent. The emphasis in this course is on the promotion and coordination of all aspects of administration which make a direct contribution to the improvement of instruction through the curriculum and the extracurriculum program. The induction of new teachers, the promotion of in-service training for staff members as well as the improvement of the curriculum as an administrative problem, and testing and evaluation are integral portions of this course. Individual and group project approaches are employed.

367. RECONSTRUCTING SECONDARY EDUCATION. *Three hours credit.*

Prerequisite, Ed. 216 or equivalent. An educational experience designed to study current problems confronting teachers relative to curriculum and instruction. Emphasis will be given to actual problems taken from in-service situations. These problems will be the bases for cooperative committee study and development of recommendations for improved practices.

369. EXPERIMENTATION IN THE SECONDARY SCHOOL. (Summer Session only.) *Four hours credit.*

Prerequisites, Ed. 216, 367, or equivalent. Secondary school organization, curriculum, and instructional practices as developed by the secondary school of Colorado State College of Education provide the approach in this course to the study of various plans for the improvement of secondary education.

§372. CURRICULUM IN SECONDARY SCHOOL MATHEMATICS. (Credit may be obtained in Science or Education.) *Three hours credit.*

For description of this course, see page 144.

§373. PROBLEMS IN THE TEACHING OF SECONDARY MATHEMATICS. (Credit may be obtained in Science or Education.) *Three hours credit.*

For description of this course, see page 144.

§374. SEMINAR IN PROBLEMS OF TEACHING SECONDARY MATHEMATICS. (Credit may be obtained in Science or Education.) *Three hours credit.*

For description of this course see page 145.

§375. ADVANCED STATISTICS. (Credit may be obtained in Science or Education.) *Four hours credit.*

For description of this course see page 145.

376. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES. *Three hours credit.*

Prerequisite, Ed. 77 or 78 or equivalent. The nature and extent of differences among individuals and differences between such groups as men and women, age, class, race and nationality; factors related to these differences; and the application of the facts of human variability to educational, vocational, social and personnel work.

378. PSYCHOLOGY OF LEARNING. *Four hours credit.*

Prerequisite, Ed. 77 or 78 or equivalent. The several theories of learning are examined critically for the purpose of developing a working control of the learning process by the student.

379. TRENDS IN EDUCATIONAL PSYCHOLOGY AND GUIDANCE. *Four hours credit.*

Prerequisite, Ed. 77 or 78 or equivalent. A course designed to summarize educational applications of recent psychological research in the areas of human growth and development, the learning process, mental hygiene, guidance, educational outcomes and their appraisals, and implementation of the curriculum.

§390. DESIGN AND ANALYSIS OF EXPERIMENTS IN EDUCATION. (Credit may be obtained in Science or Education.) (Summer Session only.) *Four hours credit.*

For description of this course, see page 145.

392. TECHNIQUES OF SUPERVISION IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Prerequisite, public school teaching or superior work in student teaching. Content of course is planned to meet needs of those preparing for supervising teachers in laboratory schools or for public school supervision. Topics include general direction of pre-service laboratory work and of in-service growth. Emphasis given to planning, teaching techniques, curriculum construction.

395. ADVANCED PHILOSOPHY OF EDUCATION. (Summer Session only.) *Four hours credit.*

Educational aims, values and criteria, democracy and education, different systems of educational philosophy, the nature of thinking, method and subject matter. (This course is differentiated in this separate section for graduate students.)

396. HISTORICAL FOUNDATIONS OF EDUCATION. *Three hours credit.*

Prerequisites, Ed. 105 and 214 or 216. This course is designed to study important historical and philosophical backgrounds for the interpretation of present day educational issues.

397. CONCEPTIONS OF MIND IN EDUCATIONAL THEORY. *Three hours credit.*

Traces the historical development of three major conceptions of mind and shows the relation of each to the aims of education.

398. CURRENT EDUCATIONAL TRENDS AND ISSUES. *Three hours credit.*

Appraises the current studies in such areas as objectives, experimentation, evaluation, administration, levels of education, non-governmental controls, program of education, teacher education and welfare.

399. THESIS. *Eight hours credit.*

400. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

Prerequisite, master's degree. Open only to graduate students who are pursuing courses beyond the master's degree, and is required of all such students who plan to become candidates either for the degree of Specialist in Education or Doctor of Education.

401. PRACTICUM (Specialist in Education.) *Eight hours credit.*

Practical professional activity or project, which culminates in an extensive written report of the project, emphasizing procedures used and conclusions reached.

423a,b,c. DOCTORAL RESEARCH STUDY. *Maximum eighteen hours credit.*

442a. SCHOOL ADMINISTRATION—SCHOOL LAW. (*Fourth course.*) *Four hours credit.*

Prerequisites, twelve hours in education, experience and graduate classification. One month of general school law with emphasis on court decisions and one month of state school law, each student making an intensive study of the school laws of his own state. Carefully outlined materials are given to class members to guide their study.

442b. SCHOOL ADMINISTRATION—PUBLIC RELATIONS. (*Fifth course.*) *Four hours credit.*

Prerequisites, twelve hours in education, experience and graduate classification. Studies the purpose and function of school public relations as they apply to the various publics. Discusses the many aspects of school-community relations; analyzes the publics and suggests methods and media of adequately informing the publics about the schools.

443. SCHOOL ADMINISTRATION—SPECIALIZED AGENCIES. (*Sixth course.*) (*Summer Session only.*) *Four hours credit.*

Prerequisite, twelve hours in education, experience and graduate classification. Administration of adult education, federal-supported classes, such as agriculture, home economics and distributive occupations, libraries, health agencies, military training, and other specialized and allied educational agencies.

444. SCHOOL ADMINISTRATION—DEVELOPING EDUCATIONAL LEADERSHIP. (*Seventh course.*) *Four hours credit.*

Prerequisite, master's degree. The selection, preparation, and placement of educational leaders in the public schools. How leadership emerges and develops. Techniques of community leadership and the use of community resources in developing an educational program.

445. PRACTICE IN COLLEGE ADMINISTRATION. *Three to six hours credit.*

Selected graduate students may study in the administrative offices under the supervision of the administration, on an individual program set up to provide each student practical experiences in college administration suited to his needs. In addition to the laboratory experience, the student is required to present an extensive written report emphasizing a review of the literature about the project, procedures used, and conclusions reached. The report must be typewritten and, after being approved by the instructor, filed with the Director of the Graduate School.

492. THE COLLEGE TEACHER. *Three hours credit.*

Presents college teaching as a profession including selection and preparation of instructors and the status, services and rewards of the profession. Also concerned with the application of psychology to college teaching, problems in improving college instruction, and the research function of the college instructor.

493. THE COLLEGE AND UNIVERSITY CURRICULUM. *Three hours credit.*

Outlines the major curricular offerings of American colleges and universities including general education, liberal arts education, vocational and professional education including teacher preparation and the academic administration involved in building and improving a curriculum.

494. COLLEGE ADMINISTRATION. *Three hours credit.*

Describes the organization and administration of American higher education. Includes administrative problems concerned with faculty policy, finance, student personnel, publications, and instruction. Takes up government and administration at all levels from the departmental offices to the board of trustees.

BUSINESS EDUCATION MAJOR**Bachelor of Arts Degree (With Teaching Certificate)**

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed below.
3. One minor of 24 quarter hours outside the field of Business Education.
4. 28 to 35 quarter hours of free electives to complete the 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

BUSINESS EDUCATION MAJOR**Bachelor of Arts Degree (With Teaching Certificate)**

Required courses in the major:

Course Number	Course Title	Hours	Credit
B.Ed. 1	Beginning Typewriting	- - - -	2
B.Ed. 2	Intermediate Typewriting	- - - -	2
B.Ed. 10	Beginning Gregg Shorthand	- - - -	4
B.Ed. 11	Intermediate Gregg Shorthand	- - - -	4
B.Ed. 12	Shorthand Transcription	- - - -	4
B.Ed. 13	Advanced Typewriting and Office Practice	- - - -	4
B.Ed. 20	Principles of Accounting I	- - - -	4
B.Ed. 21	Principles of Accounting II	- - - -	4
B.Ed. 41	Introduction to Business	- - - -	4
B.Ed. 60	Office Practice: Calculating Machines	- - - -	2
B.Ed. 131	Business Law I	- - - -	3
B.Ed. 252	Office Management	- - - -	-
	or		
B.Ed. 256	Business Organization and Management	- - - -	-
	or		
B.Ed. 261	Retail Store Operation and Management	- - - -	3
B.Ed. 254	Consumer Education	- - - -	3
B.Ed. 272	The Business Curriculum	- - - -	5

Recommended electives in areas other than Business Education: Economics 100 or 102 or 200 or 277; Geography 112.

Qualifying examinations may be taken for exemption from B.Ed. 1, 2, 10, 11, 20, but passing these examinations does not give credit toward a degree in Business Education.

Certification for Distributive-Teacher Coordinator

The following credits are required in most states for certification as a Distributive-Teacher Coordinator. Your program for certification for specific states should be planned with your adviser.

Course Number	Course Title	Hours	Credit
B.Ed. 71	Principles of Retailing	- - - -	3
B.Ed. 72	Retail Salesmanship	- - - -	3
B.Ed. 73	Merchandise Information	- - - -	5
B.Ed. 90*	Supervised Business Experience I	- - - -	4
B.Ed. 190*	Supervised Business Experience II	- - - -	4
B.Ed. 262	Administration of Distributive Education	- - - -	3
B.Ed. 264	Principles of Marketing	- - - -	3
Ed. 272	Principles of Vocational Education	- - - -	3
			28

*Additional full-time employment in an approved retail occupation for at least 12 consecutive weeks is required before you will be recommended for placement as a Distributive-Teacher Coordinator.

Business Education Minor

Course Number	Course Title	Hours	Credit
B.Ed. 1	Beginning Typewriting	- - - -	2
B.Ed. 2	Intermediate Typewriting	- - - -	2
B.Ed. 13	Advanced Typewriting and Office Practice	- - - -	4
Ed. 150c*	Methods of Teaching Business Education in the Secondary School	- - - -	3
B.Ed. (electives)**	- - - - -	- - - -	13
			24

*B.Ed. 253, Improvement of Instruction in the Business Subjects, (two hours credit) or B.Ed. 272, The Business Curriculum (five hours credit) may be substituted for Ed. 150c with the permission of the minor adviser.

**Eight quarter hours or the passing of a proficiency test is required in Colorado for certification to teach shorthand, typewriting or bookkeeping in high schools.

Suggested electives: 10, 11, 12, 20, 21, 41, 131, 252 or 256 or 261, 254.

BUSINESS EDUCATION MAJOR

Bachelor of Arts Degree (Liberal Arts)

The following program is required:

(1) Common Courses listed on page 24; (2) B.Ed. 20, 21, 41, 115, 131, 252 or 256 or 261, 254; (3) Sufficient electives to total 48 quarter hours; (4) One minor of 24 quarter hours outside the field of Business Education. Programs must be planned with the student's adviser. Courses required for a minor are B.Ed. 20, 41, 252 or 261 plus sufficient electives to total 24 quarter hours.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this year-

book. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

1. BEGINNING TYPEWRITING. *Two hours credit.*

A beginning course in typewriting. Emphasis will be given to both personal and vocational use. Students with one year of high school typewriting or the equivalent who can pass a qualifying examination may be exempted from this course.

2. INTERMEDIATE TYPEWRITING. *Two hours credit.*

Prerequisite, B.Ed. 1 or equivalent. The second course in typewriting. Emphasis will be strictly on vocational use. Students who have had two years of high school typewriting or the equivalent and who can pass a qualifying examination may be exempted from this course.

10. BEGINNING GREGG SHORTHAND. *Four hours credit.*

Prerequisite, B.Ed. 1 or equivalent. Course comprises complete theory of Gregg shorthand simplified. Students who have had one year of high school shorthand or the equivalent may be exempted from this course upon passing a qualifying examination.

11. INTERMEDIATE GREGG SHORTHAND. *Four hours credit.*

Prerequisite, B.Ed. 10 or equivalent. Course comprises intensive review of Gregg shorthand theory and completion of the text, *Gregg Dictation Simplified*. Students who have had two years of high school shorthand or the equivalent may be exempted from this course upon passing a qualifying examination.

12. SHORTHAND TRANSCRIPTION. *Four hours credit.*

Prerequisites, B.Ed. 2 or equivalent and B.Ed. 11 or equivalent. A combination of materials equivalent to the third quarters of shorthand and typewriting. Emphasis is upon rapid and accurate transcription, speed dictation, punctuation, and other office skills. The class will meet two hours a day, four days a week.

13. ADVANCED TYPEWRITING AND OFFICE PRACTICE. *Four hours credit.*

Prerequisite, B.Ed. 2 or equivalent. A combination of instruction in typewriting, the use of office machines, and experience in the administrative offices of the college. The class will meet two hours a day, four days a week.

20. PRINCIPLES OF ACCOUNTING I. *Four hours credit.*

A beginning course in accounting. Students who have previously studied book-keeping or accounting may be exempted from this course by passing a qualifying examination. Common business transactions are recorded in various journals, summarized in general and subsidiary ledgers, and the effect of these transactions is reported on classified financial statements.

21. PRINCIPLES OF ACCOUNTING II. *Four hours credit.*

Prerequisite, B.Ed. 20 or equivalent. The emphasis in this course is on negotiable instruments, accruals, adjusting current assets and fixed assets, the combined cash journal, and the voucher system. A practice set is completed.

22. PRINCIPLES OF ACCOUNTING III. *Four hours credit.*

Prerequisite, B.Ed. 21 or equivalent. Special accounting problems of businesses organized as partnerships, corporations, or by departments are studied. Some emphasis is given to accounting for a manufacturing business. Financial statements are analyzed by using percentages and ratios. A practice set is completed.

41. INTRODUCTION TO BUSINESS. *Four hours credit.*

This is a general exploratory and orientation course in the areas of business and commerce. A background is provided for the study of subsequent courses in business.

60. OFFICE PRACTICE: CALCULATING MACHINES. *Two hours credit.*

A course in the operation of rotary calculators, key driven calculators, ten-key and full-bank adding machines.

71. PRINCIPLES OF RETAILING. *Three hours credit.*

A study of the growth and position of independent, chain, and mail-order stores. Business policies, methods, and basic factors involved in planning, selecting, buying, pricing and selling merchandise are studied.

72. RETAIL SALESMANSHIP. *Three hours credit.*

Principles and practices of retail selling. Primary emphasis is upon store selling.

73. MERCHANDISE INFORMATION. *Five hours credit.*

A study of the characteristics and merchandising of both textiles and non-textiles. Emphasis is placed on their analysis.

90. SUPERVISED BUSINESS EXPERIENCE I. *Four hours credit.*

Prerequisites, approval of instructor prior to registration, approved part-time employment, B.Ed. 72. Students work in Greeley stores a minimum of 300 clock hours afternoons and Saturdays, and meet two hours a week for a seminar on related problems with emphasis on sales techniques.

115. BUSINESS CORRESPONDENCE. *Three hours credit.*

Prerequisite, ability to typewrite. The basic principles and practices in the preparation of business correspondence. Emphasis placed on business situations out of which correspondence arises.

127. PAYROLL ACCOUNTING. *Two hours credit.*

A study is made of the laws influencing the payroll records businesses must keep. Payroll routine and reports are studied and practiced.

128. FEDERAL INCOME TAX FOR INDIVIDUALS. *Three hours credit.*

Study and application of the principles in preparing federal income tax returns for individuals.

131. BUSINESS LAW I. *Three hours credit.*

This course introduces the student to law and its social and personal applications as especially applicable to business. It considers courts and procedure, the law, its origin and development. Main topics included are: contracts, sales, and negotiable instruments.

132. BUSINESS LAW II. *Three hours credit.*

Prerequisite, B.Ed. 131. Main topics included are: employer-employee, agency, bailments, carriers and real property.

190. SUPERVISED BUSINESS EXPERIENCE II. *Four hours credit.*

Prerequisites, approval of instructor prior to registration, approved part-time employment, B.Ed. 90. Students work in Greeley stores a minimum of 300 clock hours afternoons and Saturdays, and meet two hours a week for a seminar on related problems including store operation, advertising and display, and merchandising.

§215h. PSYCHOLOGY OF PERSONNEL MANAGEMENT. (Credit may be obtained in Business Education or Education.) *Four hours credit.*

A study of the principles and techniques of personnel management with attention given to their psychological foundations.

233. APPLIED BUSINESS LAW. *Four hours credit.*

The law of the following fields is applied to business experiences: contracts, negotiable instruments, agency, sales, security arrangements, real property, torts, crimes and business associations. Insofar as possible the experiences of the students are used and the legal significance of these experiences is studied.

252. OFFICE MANAGEMENT. *Three hours credit.*

The emphasis in this course is on the functions of the office and office organization; work in the office; office layout, equipment, supplies, and forms; personnel problems in the office; and costs and control of office work.

253a,b,c,d,e,f. IMPROVEMENT OF INSTRUCTION IN THE BUSINESS SUBJECTS. (Summer Session only.) *Two hours credit each.*

This course primarily for students who have had methods courses and teaching

experience. Emphasis is upon improving instruction in each of the areas studied: (a) bookkeeping; (b) office practice; (c) distributive education; (d) short-hand; (e) typewriting; (f) general business.

254. CONSUMER EDUCATION. *Three hours credit.*

This course deals with the problems of the consumer in the management of his income and the buying of goods and services.

§255. CONSUMER EDUCATION IN THE SCHOOLS. (Credit may be obtained in Business Education or Education.) *Three hours credit.*

A study of the need for consumer education, objectives, methods of organizing a program in the school, the contribution of various subject matter areas, and materials and methods of teaching consumer education.

256. BUSINESS ORGANIZATION AND MANAGEMENT. *Three hours credit.*

Deals with different types of organization which have been used in the conduct of business and how business is organized to conduct services. Both large and small business organizations are studied.

257. PRINCIPLES OF INSURANCE. *Three hours credit.*

The different types of insurance coverage available and the kinds of policies are presented in this course. Primary emphasis is placed on life insurance. Each student will develop a tentative insurance program.

258. PRINCIPLES OF ADVERTISING. *Three hours credit.*

The principles of advertising are studied in this course and applied to the different advertising mediums. Advertising campaigns are studied and developed.

261. RETAIL STORE OPERATION AND MANAGEMENT. *Three hours credit.*

Functions of the main divisions of retailing. Emphasis is on the responsibilities of the store manager and current operating practices.

262. ADMINISTRATION OF DISTRIBUTIVE EDUCATION. *Three hours credit.*

A survey of the field of cooperative distributive education will be introductory. The course will then stress the organization, administration and supervision of such a program.

264. PRINCIPLES OF MARKETING. *Three hours credit.*

The purpose of this course is to give students an understanding of the place of marketing in our economic system. The field of retailing, which is a part of marketing, will be given but little emphasis because of its being covered in a separate course.

265. JOB ANALYSIS. *Three hours credit.*

The importance, use, and procedures of job analysis in course construction and on-the-job training.

266. DEVELOPMENT OF DISTRIBUTIVE EDUCATION INSTRUCTIONAL MATERIAL. (Summer Session only.) *Four hours credit.*

Instructional material will be collected from original sources and qualified and organized into distributive education course outlines.

272. THE BUSINESS CURRICULUM. *Five hours credit.*

The business curriculum in the high school is the basic consideration in this course. This is the final course in business education for prospective teachers.

277. ADULT PROGRAMS IN BUSINESS EDUCATION. (Summer Session only.) *Four hours credit.*

A practical course on basic techniques of organizing, promoting, supervising an adult program. Selecting and training of teachers, course building, forms of effective presentation, public relations and community organization are included. Two supervisory courses, Job Relations Training and Job Instruction Training are given so that enrollees may be certified to teach them on an adult level.

278. ADVANCED SALES TECHNIQUES. (Summer Session only.) *Four hours credit.*

A practical intensive course to develop skill in selling and to furnish subject matter and cases for use in distributive education on both high school and adult levels.

280a,b,c,d. WORKSHOP IN BUSINESS EDUCATION. (Summer Sessions only.) *Three hours credit each.*

Through cooperative effort problems in business education will be solved. Each year a new theme will be used as a point of departure in the discussion of business education problems.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of research techniques and their application to business education. Required of all business education majors who are candidates for the master's degree.

322. INDIVIDUAL STUDIES. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

This course provides an opportunity for the graduate student to engage in individual research in the field of business education.

370. ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION. *Four hours credit.*

This course deals with the problems of administrators and supervisors who are interested in business education as well as heads of departments of business education.

372. ADVANCED CURRICULUM PROBLEMS. (Summer Session only.) *Four hours credit.*

High school curriculums and courses of study in business subjects will be planned and developed in this course.

373. CURRENT PROBLEMS IN BUSINESS EDUCATION. *Four hours credit.*

Current problems in business education are studied and discussed by individuals, committees and the class.

399. THESIS. *Eight hours credit.*

Division of Health and Physical Education

The Division of Health and Physical Education includes programs for both men and women.

The academic programs are:

1. A major in Physical Education for women leading to the Bachelor of Arts degree with teaching certificate.
2. A major in Physical Education for men leading to the Bachelor of Arts degree with teaching certificate.
3. A teaching minor in Physical Education for men and women planning to teach in secondary schools.
4. A teaching minor in Physical Education for men and women planning to teach in elementary schools.
5. A teaching minor in Health Education.
6. A graduate major in Physical Education leading to the Master of Arts degree.
7. A graduate major in Supervision of Physical Education leading to the Master of Arts degree.
8. A graduate major in Health Education leading to the Master of Arts degree.

PHYSICAL EDUCATION MAJOR FOR WOMEN

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, except the physical education activity courses of the freshman and sophomore years. H.P.E. 80, 81, and 83 will be substituted for the six hours of physical education activity courses required in the common program.
2. The 48 quarter hours in the major listed below.
3. One minor of 24 quarter hours outside the Division of Health and Physical Education. An additional minor in Health Education within the Division is optional.
4. 4 to 11 quarter hours of free electives to complete the 180 quarter hours of academic credit for graduation.

Programs must be planned with the student's adviser.

PHYSICAL EDUCATION MAJOR FOR WOMEN

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number		Course Title	Hours	Credit
H.P.E.	62	First Aid	- - - -	2
H.P.E.	82	Techniques of Hockey and Soccer	- - - -	2
H.P.E.	84	Techniques of Tennis and Softball	- - - -	2
H.P.E.	85	Techniques of Tumbling	- - - -	2
H.P.E.	90	Techniques in Folk Dance	- - - -	2
H.P.E.	92	American Square and Social Dance	- - - -	2
H.P.E.	93	Techniques in Contemporary Dance	- - - -	2
H.P.E.	94	Problems in Dance Composition	- - - -	2
H.P.E.	120a,b	Anatomy and Physiology	- - - -	6
H.P.E.	122	Kinesiology	- - - -	4
H.P.E.	129a,b,c	Teaching of Sports for Women	- - - -	6
H.P.E.	176	Evaluation in Physical Education	- - - -	3
H.P.E.*	201	Health Education in the Elementary School	- - - -	
		or		
H.P.E.*	202	Health Education in the Secondary School	- - - -	4
H.P.E.	232	Problems of Individual Gymnastics	- - - -	3
H.P.E.	235	History and Principles of Physical Education	- - - -	3
H.P.E.	272	Recreation Leadership	- - - -	3

48

*Students planning to teach in the elementary school will take H.P.E. 201; those planning to teach in the secondary school will take H.P.E. 202.

PHYSICAL EDUCATION MAJOR FOR MEN

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23. H.P.E. 70 and 71 will be substituted for four of the six hours of physical education activity courses required in the common program. The remaining two hours of the common requirement in this area will be selected with the assistance of the student's adviser.

2. The 48 quarter hours in the major listed below.
3. Two minors of 24 hours each. One minor may be in Health Education and the other minor will be outside the Division of Health and Physical Education.

A methods course (Ed. 150) is required in one minor outside the Division of Health and Physical Education.

4. 4 to 11 quarter hours of free electives to complete 180 quarter hours of academic credit for graduation.

Programs must be planned with the student's adviser.

PHYSICAL EDUCATION MAJOR FOR MEN

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
H.P.E. 62	First Aid	2	2
H.P.E. 73	Theory and Practice of Basketball	2	2
H.P.E. 74	Theory and Practice of Swimming and Wrestling	2	2
H.P.E. 75	Theory and Practice of Track and Baseball	2	2
H.P.E. 76	Theory and Practice of Football	2	2
H.P.E. 90	Techniques in Folk Dance	2	2
H.P.E. 92	American Square and Social Dance	2	2
H.P.E. 120a,b	Anatomy and Physiology	6	6
H.P.E. 122	Kinesiology	4	4
H.P.E. 161	Coaching of Football	2	2
H.P.E. 162	Coaching of Basketball	2	2
H.P.E. 163	Coaching of Track and Field	2	2
H.P.E. 164	Coaching of Baseball	2	2
H.P.E. 176	Evaluation in Physical Education	3	3
H.P.E.* 201	Health Education in the Elementary School		
or			
H.P.E.* 202	Health Education in the Secondary School	4	4
H.P.E. 235	History and Principles of Physical Education	3	3
H.P.E. 270	Organization and Administration of Physical Education and Athletics	3	3
H.P.E. 272	Recreation Leadership	3	3
			48

*Students planning to teach in the elementary school will take H.P.E. 201; those planning to teach in the secondary school will take H.P.E. 202.

Physical Education Minor for Women (Elementary Level)

Course Number	Course Title	Hours	Credit
H.P.E. 62	First Aid	2	2
H.P.E. 85	Techniques of Tumbling	2	2
H.P.E. 88a,b,c	Physical Education Activities for the Elementary School	4	4
or			
Ed. 150g	Methods and Observation of Teaching Physical Education in the Elementary School	3	3
H.P.E. 90	Techniques in Folk Dance	2	2
H.P.E. 95	Rhythmic Activities for the Elementary School	2	2
H.P.E. 201	Health Education in the Elementary School	4	4
H.P.E. 272	Recreation Leadership	3	3
Electives		5 or 6	5 or 6

For a total of 24

Physical Education Minor for Women (Secondary Level)

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
H.P.E. 25	Fundamentals of Body Movement	- - -	1
H.P.E. 62	First Aid	- - -	2
H.P.E. 80	Techniques of Individual Sports	- - -	2
H.P.E. 81	Techniques of Volleyball and Basketball	- - -	2
H.P.E. 82	Techniques of Hockey and Soccer	- - -	2
H.P.E. 84	Techniques of Tennis and Softball	- - -	
	or		
H.P.E. 85	Techniques of Tumbling	- - -	
	or		
H.P.E. 129b	Teaching of Sports for Women	- - -	2
H.P.E. 90	Techniques in Folk Dance	- - -	2
H.P.E. 92	American Square and Social Dance	- - -	2
H.P.E. 202	Health Education in the Secondary School	- - -	4
H.P.E. 272	Recreation Leadership	- - -	3
Ed. 150h	Methods and Observation of Teaching Physical Education in the Secondary School (Women)	- - -	2
			<hr/> 24

Physical Education Minor for Men (Elementary Level)

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
H.P.E. 62	First Aid	- - -	2
H.P.E. 70	Theory and Practice of Gymnastics and Matwork	- - -	2
H.P.E. 88a,b,c	Physical Education Activities for the Elementary School	- - -	4
	or		
Ed. 150g	Methods and Observation of Teaching Physical Education in the Elementary School	- - -	3
H.P.E. 90	Techniques in Folk Dance	- - -	2
H.P.E. 95	Rhythmic Activities for the Elementary School	- - -	2
H.P.E. 201	Health Education in the Elementary School	- - -	4
H.P.E. 272	Recreation Leadership	- - -	3
Electives		- - -	5 or 6
			<hr/> For a total of 24

Physical Education Minor for Men (Secondary Level)

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
H.P.E. 62	First Aid	- - -	2
H.P.E. 73	Theory and Practice of Basketball	- - -	2
H.P.E. 75	Theory and Practice of Track and Baseball	- - -	2
H.P.E. 76	Theory and Practice of Football	- - -	2
H.P.E. 161	Coaching of Football	- - -	2
H.P.E. 162	Coaching of Basketball	- - -	2
H.P.E. 202	Health Education in the Secondary School	- - -	4
H.P.E. 270	Organization and Administration of Physical Education and Athletics	- - -	3
H.P.E. 272	Recreation Leadership	- - -	3
Ed. 150h	Methods and Observation of Teaching Physical Education in the Secondary School (Men)	- - -	2
			<hr/> 24

Health Education Minor (Men and Women)

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
H.P.E.	98	- - - - Elementary Nutrition - - - -	- - - -	3
		or		
H.P.E.	209	- - - - New Trends in Nutrition - - - -	- - - -	4
H.P.E.	201	- - - - Health Education in the Elementary School		
		or		
H.P.E.	202	- - - - Health Education in the Secondary School		4
H.P.E.	208	- - - - Community Health Problems - - - -	- - - -	4
H.P.E.	213	- - - - Health Counseling and Appraisal - - - -	- - - -	2
H.P.E.	228a	- - - - Mental Hygiene and Emotional Adjustment		3
H.P.E.	271	- - - - Safety Education - - - -	- - - -	3
Ed.	277	- - - - Child Psychology		
		or		
Ed.	278	- - - - Psychology of Adolescence - - - -	- - - -	3
Electives		- - - -	- - - -	1 or 2

For a total of 24

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

Physical Education Activity Program for Women • During their first year, women students should enroll for a class in dance, one group sport, and one individual sport, each carrying one hour of credit per quarter. After the first year, students may register for any one-hour course not previously taken, for a total of six hours credit. Courses meeting these requirements are numbered from 1 to 60 inclusive. Courses may be repeated with approval of divisional faculty members. A total of six quarters of physical education activity courses is required.

Women students registered for physical education activity courses are required to obtain a locker padlock in the College Bookstore. Combinations for padlocks may be obtained in Gunter Hall, Room 109.

Women may purchase regulation gymnasium suits from the College Bookstore. These suits are required.

To be excused from physical education activity courses, students must have the approval of the faculty of the Division of Health and Physical Education.

Physical Education Activity Program for Men • During their first year, men students should enroll for H.P.E. 1, 2, 3, each carrying one hour of credit per quarter. After the first year, students may register for any one-hour course not previously taken, for a total of six hours credit. Courses meeting these requirements are numbered 1 to 60 inclusive. Courses may be repeated with approval of divisional faculty members. A total of six quarters of physical education activity courses is required.

Men students registered for physical education activity courses are required to obtain a locker padlock in the College Bookstore. Combinations for padlocks and locker assignments may be obtained in the equipment room in the basement of Gunter Hall.

To be excused from physical education activity courses, students must have the approval of the faculty of the Division of Health and Physical Education.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this year-book. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

NON-PROFESSIONAL COURSES

1. FALL SPORTS. *One hour credit.*
Seasonal program. Advised for all first-year men students.
2. WINTER INDOOR SPORTS. *One hour credit.*
Seasonal program. Advised for all first-year men students.
3. SPRING SPORTS. *One hour credit.*
Seasonal program. Advised for all first-year men students.
5. TAP DANCE. *One hour credit.*
- 6a. BEGINNING CONTEMPORARY DANCE. *One hour credit.*
- 6b. INTERMEDIATE CONTEMPORARY DANCE. *One hour credit.*
Prerequisite, H.P.E. 6a.
- 6c. ADVANCED CONTEMPORARY DANCE. *One hour credit.*
Prerequisite, H.P.E. 6a or 6b or permission of instructor. Advanced analysis and practice of axial and locomotor movement.
7. FOLK DANCE. *One hour credit.*
8. BEGINNING SOCIAL DANCE. *One hour credit.*
9. AMERICAN SQUARE DANCE. *One hour credit.*
10. FIELD HOCKEY. *One hour credit.*
11. SOFTBALL. *One hour credit.*
12. SOCCER. *One hour credit.*
15. VOLLEYBALL. *One hour credit.*
16. SWIMMING. *One hour credit.*
- 16a. BEGINNING SWIMMING. *One hour credit.*
- 16b. INTERMEDIATE SWIMMING. *One hour credit.*
Prerequisites, 16a or beginner's test or ability to swim in deep water.
- 16c. ADVANCED SWIMMING. *One hour credit.*
Prerequisite, 16b or intermediate test of knowledge of fundamental strokes.
18. BASKETBALL. *One hour credit.*
19. INDIVIDUAL SPORTS. *One hour credit.*
22. MATWORK. *One hour credit.*
- 22a. PYRAMIDS. *One hour credit.*
- 22b. DOUBLE TUMBLING. *One hour credit.*
- 22c. GYMNASTICS. *One hour credit.*
23. TENNIS. *One hour credit.*
25. FUNDAMENTALS OF BODY MOVEMENT. *One hour credit.*
Individual analysis of posture; exercises prescribed for individual needs; instruction and practice in doing everyday movements with maximum efficiency.
26. SPEEDBALL. *One hour credit.*
- 45a. FRESHMAN FOOTBALL; 45b, VARSITY FOOTBALL. *One hour credit each.*

46a. FRESHMAN BASKETBALL; **46b,** VARSITY BASKETBALL. *One hour credit each.*

47. WRESTLING. *One hour credit.*

48a. FRESHMAN GYMNASTICS; **48b,** VARSITY GYMNASTICS. *One hour credit each.*

49a. FRESHMAN SWIMMING; **49b,** VARSITY SWIMMING. *One hour credit each.*

52a. FRESHMAN BASEBALL; **52b,** VARSITY BASEBALL. *One hour credit each.*

53a. FRESHMAN TRACK; **53b,** VARSITY TRACK; **53c,** CROSS COUNTRY. *One hour credit each.*

54a. FRESHMAN TENNIS; **54b,** VARSITY TENNIS. *One hour credit each.*

61. PERSONAL LIVING. *Five hours credit.*

The relationship of health practices and attitudes to everyday living patterns is stressed. Effort is made to assist the student in designing desirable health patterns that will meet the individual's needs.

62. FIRST AID. *Two hours credit.*

This course emphasizes the prevention of accidents and the standard procedure in caring for emergencies.

63. ADVANCED FIRST AID. *One hour credit.*

Prerequisite, H.P.E. 62.

64. INSTRUCTOR'S COURSE IN FIRST AID. *One hour credit.*

Prerequisite, H.P.E. 63.

65. SENIOR LIFE SAVING. *One hour credit.*

Prerequisite, ability to pass the preliminary swimming requirements.

66. WATER SAFETY INSTRUCTOR'S COURSE. *One hour credit.*

Prerequisite, H.P.E. 65.

PROFESSIONAL COURSES

Courses 70 to 99 are for divisional majors and minors.

70. THEORY AND PRACTICE OF GYMNASTICS AND MATWORK (Men). *Two hours credit.*

Fundamental skills on parallel bars, rings, side horse, horizontal bar, trampoline, and mats.

71. THEORY AND PRACTICE OF MINOR SPORTS (Men). *Two hours credit.*

Fundamental skill techniques in minor sports.

73. THEORY AND PRACTICE OF BASKETBALL (Men). *Two hours credit.*

Fundamental skill techniques in basketball.

74. THEORY AND PRACTICE OF SWIMMING AND WRESTLING (Men). *Two hours credit.*

Fundamental skill techniques in swimming and wrestling.

75. THEORY AND PRACTICE OF TRACK AND BASEBALL (Men). *Two hours credit.*

Fundamental skill techniques in track and baseball.

76. THEORY AND PRACTICE OF FOOTBALL (Men). *Two hours credit.*

Prerequisite, enrollment limited to Physical Education majors and minors. Fundamental skill techniques in football.

80. TECHNIQUES OF INDIVIDUAL SPORTS (Women). *Two hours credit.*

Fundamental skills, strategies and rules of individual sports.

81. TECHNIQUES OF VOLLEYBALL AND BASKETBALL (Women). *Two hours credit.*

Prerequisite, enrollment limited to Physical Education majors and minors. Fundamental skills, team play, and rules.

82. TECHNIQUES OF HOCKEY AND SOCCER (Women). *Two hours credit.*

Prerequisite, enrollment limited to Physical Education majors and minors. Fundamental skills, team play, and rules.

83. TECHNIQUES OF SWIMMING (Women). *Two hours credit.*

Prerequisites, knowledge of strokes, intermediate swimmer's test, or H.P.E. 166. The teaching of swimming, including the techniques of diving and advanced and synchronized swimming.

84. TECHNIQUES OF TENNIS AND SOFTBALL (Women). *Two hours credit.*

Fundamental skills, team play, and rules.

85. TECHNIQUES OF TUMBLING (Women). *Two hours credit.*

Fundamental skills and techniques in tumbling and stunts. Practical experience in organizing tumbling games, contests, and demonstrations.

§88a. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) *Two hours credit. (One hour lecture, one hour laboratory, one hour outside assignment.)*

Prerequisite, physical education activity courses related to elementary schools. Designed for, required of and restricted to majors and minors in elementary education and physical education minors (elementary level). Content deals with the basic principles recognized in planning physical education program for elementary school pupils. Emphasis given to play activities as well as the regular physical education program.

§88b. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) *One hour credit. (Two hours laboratory, one hour outside assignment.)*

Prerequisite, H.P.E. 88a. Designed for, required of and restricted to majors and minors of elementary education and physical education minors (elementary level). Emphasis given to the physical education program and play activities appropriate for elementary school pupils during the winter months.

§88c. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) *One hour credit. (Two hours laboratory, one hour outside assignment.)*

Prerequisite, H.P.E. 88b. Designed for, required of and restricted to majors and minors in elementary education and physical education minors (elementary level). Emphasis given to the physical education program and play activities appropriate for elementary school pupils during the spring months.

90. TECHNIQUES IN FOLK DANCE. *Two hours credit.*

A presentation of the materials, methods, and techniques necessary for teaching folk dances.

92. AMERICAN SQUARE AND SOCIAL DANCE. *Two hours credit.*

Fundamental skills, methods, and materials necessary in the teaching of square and social dance. Practical experience in organizing and conducting square dances.

93. TECHNIQUES IN CONTEMPORARY DANCE. *Two hours credit.*

The analysis and techniques of movement qualities and their use in relation to time and space.

94. PROBLEMS IN DANCE COMPOSITION. *Two hours credit.*

A study of the history of music for the dance, of music and dance forms, experience in composition in these forms, and the use of music as dance accompaniment.

95. RHYTHMIC ACTIVITIES FOR THE ELEMENTARY SCHOOL.
Two hours credit.

A presentation of materials, methods and techniques of teaching rhythmic activities for the elementary school. Particular stress will be placed on creative rhythms and the source and selection of materials to be used.

§98. ELEMENTARY NUTRITION. (Credit may be obtained in Home Economics or Health and Physical Education.) *Three hours credit.*

For description of this course, see page 59.

120a,b. ANATOMY AND PHYSIOLOGY. *Three hours credit each.*

The study of structure and functions of the human body, including digestive, circulatory, respiratory, reproductive, nervous, excretory, and endocrine systems.

122. KINESIOLOGY. *Four hours credit.*

This course gives detailed work on the skeletal and muscular systems. Advised especially for students wanting to go into physical therapy work.

129a,b,c. TEACHING OF SPORTS FOR WOMEN. *Two hours credit each.*
Prerequisites, H.P.E. 81, 82, 83, 84. A consideration of the basic techniques of fall, winter, and spring sports, emphasizing teaching procedures.

161. COACHING OF FOOTBALL. *Two hours credit.*

Prerequisite, H.P.E. 76, or 45a, or 45b, or permission of the instructor. The technique and strategy of coaching football with emphasis upon type of formations, defense, play series, rules, and football coaching in general.

162. COACHING OF BASKETBALL. *Two hours credit.*

Prerequisite, H.P.E. 73, or 46a, or 46b, or permission of the instructor. Theory and practice in scouting, charting, scoring, timing, and officiating. Principles of successful modern offensive and defensive play. Procedures in developing and utilizing playing personnel.

163. COACHING OF TRACK AND FIELD. *Two hours credit.*

Prerequisite, H.P.E. 75, or 53a, or 53b, or permission of the instructor. A study of the techniques of coaching the various events in track and field, the rules, and the methods of conducting track meets.

164. COACHING OF BASEBALL. *Two hours credit.*

Prerequisite, H.P.E. 75, or 52a, or 52b, or permission of the instructor. Techniques and procedures in developing individual and team play. Defensive baseball: pitching, catching, infielding, outfielding, strategy. Offensive baseball: batting, base-running, strategy.

176. EVALUATION IN PHYSICAL EDUCATION. *Three hours credit.*

Prerequisite, senior standing or permission of instructor. Designed to give the student a foundation in techniques of evaluation including elementary statistical procedures, the preparation and administration of skill and written tests, and the use of other evaluative materials in the field.

§183. HOME NURSING. (Credit may be obtained in Health and Physical Education or Home Economics.) *Two hours credit.*

The chief purpose of this course is to develop the ability to give simple nursing care to a sick person in the home. The principles of care are stressed and nursing procedures demonstrated and practiced.

§188. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Credit may be obtained in Health and Physical Education or Education.) (Summer Session only.) *Four hours credit.*

Designed to furnish the elementary teacher with materials and laboratory experiences in physical education activities for the elementary school program or activity period.

201. HEALTH EDUCATION IN THE ELEMENTARY SCHOOL. *Four hours credit.*

Prerequisite, H.P.E. 61. A course designed to give the prospective elementary teacher a foundation in school health education including methods and materials for health instruction, the promotion of healthful school living, and an understanding of the health service program.

202. HEALTH EDUCATION IN THE SECONDARY SCHOOL. *Four hours credit.*

Prerequisite, H.P.E. 61. A course designed to give the prospective secondary teacher a foundation in school health education including methods and materials for health instruction, the promotion of healthful school living, and an understanding of the health service program.

203. HEALTH EDUCATION WORKSHOP. (Summer Sessions only.)
Three hours credit.

Prerequisites, upper division or graduate status and permission of the instructor. The workshop will be concerned with the practical problems of the organization and administration of school health programs. Consideration will be given to health instruction, medical and nursing services, nutrition, school lunch programs, safety, mental hygiene, and environmental sanitation. Student will actively participate in group conferences on methods, activities, procedures, materials for health education.

208. COMMUNITY HEALTH PROBLEMS. *Four hours credit.*

A course designed to acquaint the teacher with health problems in a community.

§209. NEW TRENDS IN NUTRITION. (Credit may be obtained in Home Economics or Health and Physical Education.) *Four hours credit.*

For description of this course, see page 60.

213. HEALTH COUNSELING AND APPRAISAL. *Two hours credit.*

Prerequisite, H.P.E. 201 or 202. To acquaint students with materials and techniques that will enable them (1) to recognize symptoms of physical and emotional disorders in pupils and (2) to refer the pupils to proper authorities for help in overcoming the disorders.

§228a. MENTAL HYGIENE AND EMOTIONAL ADJUSTMENT.
(Credit may be obtained in Education or Health and Physical Education.) *Three hours credit.*

For description of this course, see page 78.

§230. CAMP LEADERSHIP. (Credit may be obtained in Health and Physical Education or Education.) *Three hours credit.*

Offered during Pre-Session at a mountain campsite. A functional course designed to prepare college students for probable leadership service in summer camps.

232. PROBLEMS OF INDIVIDUAL GYMNASTICS. *Three hours credit.*

Prerequisites, H.P.E. 120a,b and 122. The science of muscular action in relation to postural defects and treatment.

235. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. *Three hours credit.*

Prerequisites, H.P.E. 120a,b, senior or graduate standing. A study of the history of physical education from the Ancient Greeks to the present time, followed by the basic foundations and principles upon which the profession is built.

255. CONTEMPORARY DANCE TECHNIQUES. *Four hours credit.*

Prerequisite, H.P.E. 93 or permission of instructor. Basic work and movement analysis including laboratory work in composition.

256. MUSIC IN CONTEMPORARY DANCE. *Four hours credit.*

Prerequisite, H.P.E. 94 or permission of instructor. The techniques of playing percussion instruments with compositions of rhythmic studies for such instruments, and a more advanced study of music form and analysis in relation to dance.

265a,b. ADVANCED TECHNIQUES IN TEACHING MAJOR SPORTS TO MEN. *Two hours credit each.*

Prerequisite, teaching or coaching experience. Designed to assist the in-service teacher of major sports for men with special problems in the field of (a) football, (b) basketball, including organization, strategy, personnel.

266a,b. ADVANCED TECHNIQUES IN TEACHING MINOR SPORTS TO MEN. *Two hours credit each.*

Prerequisite, teaching or coaching experience. Designed to assist the in-service

teacher of minor sports for men with special problems in the field of (a) wrestling, (b) track, including organization, strategy, personnel.

267. ADVANCED TECHNIQUES IN TEACHING SPORTS TO GIRLS. *Four hours credit.*

Prerequisite, Ed. 150h or teaching experience. A course in advanced teaching and officiating of girls' sports.

268. THE ADMINISTRATION OF THE SCHOOL RECREATION PROGRAM. *Four hours credit.*

Designed to cover all aspects of the school recreation program including before-school, noon-hour, after-school, evening, and week-end activities. The course emphasizes the administrative and supervisory problems involved in a total school program.

269. ORGANIZATION AND ADMINISTRATION OF A PHYSICAL EDUCATION PROGRAM FOR GIRLS. *Four hours credit.*

The organizational and administrative aspects of girls' physical education program.

270. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS. *Three hours credit.*

The organizational and administrative problems of physical education and athletics on the high school level: aims and objectives, management of athletics, the physical plant, intramurals, and administrative policies.

§271. SAFETY EDUCATION. (Credit may be obtained in Health and Physical Education or Education.) *Three hours credit.*

Comprehensive course for probable administrators of safety programs in public schools.

272. RECREATION LEADERSHIP. *Three hours credit.*

Readings, reports and projects covering the philosophy, methods, and materials for the recreation leader.

275. METHODS AND MATERIALS IN DRIVER EDUCATION. *Four hours credit.*

This course emphasizes the underlying characteristics and psychology of drivers, the development of laws, and the basic principles of automobile driving and operation. Completion of course requirements insures certification by the Colorado Department of Education.

280. CARE OF ATHLETIC INJURIES. *Four hours credit.*

Prerequisites, H.P.E. 62, 120a,b, and 122. Laboratory required. Intensive course in care and treatment of athletic injuries with much time devoted to each specific injury. The etiology, pathology, signs and symptoms, treatment, and adapted activities will be given for the major injuries.

288. HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. *Three hours credit.*

Designed for the elementary teacher utilizing both laboratory and lecture techniques in developing a functional program of health and physical education in the elementary school.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students who intend to receive the degree of Master of Arts.

304. SCHOOL HEALTH ADMINISTRATION. *Four hours credit.*

This course is designed to acquaint the administrator and the health educator with the total health program. Problems are considered which deal with the various areas of the school health program such as: health instruction, health services, school safety, school lunches, mental health, and environmental health. In addition, special attention is devoted to the legal aspects of the school health program, administrative interrelationships, and evaluation procedures.

310. SEMINAR IN HEALTH EDUCATION. *Four hours credit.*

Prerequisite, H.P.E. 201 or 202. Intensive consideration to individual student problems as related to the various areas of the field.

312. TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION. *Four hours credit.*

A survey of tests and measurements in health and physical education, their uses and methods of construction, and presentation of necessary statistical material for test interpretation.

322. INDIVIDUAL STUDIES IN HEALTH AND PHYSICAL EDUCATION. *One to four hours credit for one problem; a maximum of eight hours credit permitted.*

The purpose of this course is to provide for independent study, particularly in special phases of a field of specialization not provided for in a formal class course. Paper required.

325. PHYSIOLOGY OF EXERCISE. *Four hours credit.*

Prerequisite, H.P.E. 120a,b. Effect of muscular activities on the various systems and organs of the body.

336. THE SCIENCE OF BODY MECHANICS. *Four hours credit.*

A course designed to give fundamental material in the relationship of bones and muscles to movement; the analysis of movement in various activities, and the recognition of and exercises for remediable defects. Emphasis will be placed on problems of individual students in relationship to home or school situations. Students having taken both H.P.E. 122 and 232 will not be accepted for enrollment.

340. CURRICULUM IN HEALTH AND PHYSICAL EDUCATION. *Four hours credit.*

Principles involved in curriculum construction. Experience provided in building curriculums.

344. SUPERVISION OF PHYSICAL EDUCATION. *Four hours credit.*

Prerequisites, Ed. 150g, 150h, or permission of instructor. Concepts, principles, organization, and techniques of supervision for use by superintendents, supervisors, and teachers in the construction or supervision of a physical education program.

355. ADVANCED TECHNIQUES AND COMPOSITION FOR CONTEMPORARY DANCE. (Summer Session only.) *Four hours credit.*

Prerequisite, H.P.E. 93 or permission of instructor. A continuation of H.P.E. 255 stressing problems in composition to be presented in performance before an audience.

356. WORKSHOP IN CONTEMPORARY DANCE. (Summer Session only.) *Four hours credit.*

Prerequisites, H.P.E. 255, 355, or permission of instructor. Problems connected with the staging of dance performances.

377. ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. *Four hours credit.*

This course deals with the complete organization and administration of the community recreation program. It treats the ten essential areas of this subject: the fact-finding survey, legal aspects, municipal organization, organization of recreation department, financing, records and reports, publicity, cooperation and relationships, leadership, program.

399. THESIS. *Eight hours credit.*

Division of the Humanities

The Division of the Humanities includes the fields of English, Speech, Drama, and Foreign Languages.

The academic programs are:

1. A major in English leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates.

2. A major in Foreign Languages leading to the Bachelor of Arts degree with teaching certificate.
3. A major in Speech or Drama leading to the Bachelor of Arts degree with teaching certificate.
4. A combined program in Speech and Drama leading to the Master of Arts degree with teaching certificate.
5. Minors in English, Foreign Languages, Speech, or Drama.
6. A program leading to the Bachelor of Arts degree (liberal arts).

ENGLISH MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed below.
3. At least one minor of 24 quarter hours. If the minor is Speech or Drama a second minor will be required either in Foreign Languages or outside the Division of the Humanities.
4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

ENGLISH MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
Eng. 4a, 4b, 210	Elementary English Composition,		
(Select two)	Advanced Composition - - - -	7 or 8 or 9	
Eng. 50	Shakespeare - - - - -		3
Eng. (selected) *	- - - - -		13
Eng. 60	American Literature to the Civil War - -		4
Eng. 61	American Literature Since the Civil War -		4
Eng. 110a or b			
or c	Creative Writing - - - - -		2
Eng. 211	The English Language - - - - -		4
Eng. 257	History of Ideas in English Literature - -		3
Sp. 5	Fundamentals of Speech - - - - -		2
	or		
Sp. 16	Voice and Diction - - - - -		4
Sp. 114	Introduction to the Theater - - - - -		3
*Selected from:		For a total of	48
Eng. 49	English Poetry from Chaucer to Milton -		3
Eng. 51	The Restoration and 18th Century - -		3
Eng. 52	The Romantic Movement - - - - -		3
Eng. 53	Victorian Prose and Poetry - - - - -		3
Eng. 54	Contemporary English and American		
	Literature - - - - -		4

English Minor

Course Number	Course Title	Hours Credit
Eng. 4a, 4b, 210 (select two)	Elementary English Composition, Advanced Composition - -	7 or 8 or 9
Eng. 58a	Survey of English Literature (700-1800)	4
Eng. 58b	Survey of English Literature (1800-1945)	4
Eng. 58c	Survey of American Literature	4
Eng. 226	Literature and Materials in the Secondary School - - - -	4

For a total of 24

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

ENGLISH MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 24; (2) The English requirements listed for the major on page 105 with the exception that substitutions may be made with the consent of the adviser; (3) One minor; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Courses required for a minor under this program are: Eng. 58a, 58b, 58c, 211, and eight hours of composition.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

HUMANITIES

1, 2, 3. THE BASIC COURSE IN THE HUMANITIES. *Three hours credit each.*

A systematic historical study of the great philosophic ideas from Greek times to the present. These ideas are developed from a study of the literature, painting, sculpture, architecture and music of the periods studied. This course is further designed to develop active creative interests in the arts.

240. ADVANCED COURSE IN THE HUMANITIES. *Four hours credit.*

Offered jointly by various members of the staff, this course consists of an intensive humanistic treatment of a few great works and great themes in literature in correlation with the other arts.

ENGLISH

4a. ELEMENTARY ENGLISH COMPOSITION. *Five hours credit.*

The basic needs for correct, acceptable usage in writing, with practice in written expression.

4b. ELEMENTARY ENGLISH COMPOSITION. *Four hours credit.*

Continuation of Eng. 4a with special emphasis on matters of style.

49. ENGLISH POETRY FROM CHAUCER TO MILTON. *Three hours credit.*

A study of the poetry of England from the end of the Middle Ages through the Renaissance, including such authors as Chaucer, The Pearl Poet, Spenser, Sidney, Marlowe, Jonson, Shakespeare, Donne, Herbert, Herrick, and Milton.

50. SHAKESPEARE. *Three hours credit.*

A basic Shakespeare course for the English major with a special stress on plays that are usually taught in the public schools.

51. THE RESTORATION AND EIGHTEENTH CENTURY. *Three hours credit.*

A study of major writers of the period with attention to their influence on subsequent ideas and literary forms.

52. THE ROMANTIC MOVEMENT. *Three hours credit.*

The development of English Romanticism; its social and philosophical backgrounds. Wordsworth, Coleridge, Byron, Shelley, and Keats; with some consideration of the essayists and minor poets.

53. VICTORIAN PROSE AND POETRY. *Three hours credit.*

A study of the poems and more important prose works of the major Victorian writers, and of their relation to the life of the times.

54. CONTEMPORARY ENGLISH AND AMERICAN LITERATURE. *Four hours credit.*

A study of the development of English and American poetry, fiction, and drama since 1920, showing the relationships between the two literatures in a period when the interaction becomes extensive.

58a. SURVEY OF ENGLISH LITERATURE (700-1800). *Four hours credit.*

Comprehensive readings in English literature following its development from Beowulf to the Romantic Movement.

58b. SURVEY OF ENGLISH LITERATURE (1800-1945). *Four hours credit.*

Comprehensive readings in English literature following its development since the Romantic Movement.

58c. SURVEY OF AMERICAN LITERATURE. *Four hours credit.*

Readings of major writers from the beginning to the present with particular attention to democratic values.

60. AMERICAN LITERATURE TO THE CIVIL WAR. *Four hours credit.*

A study of a body of American literature produced in the 17th, 18th, and 19th centuries. The course includes textual criticism of the major works.

61. AMERICAN LITERATURE SINCE THE CIVIL WAR. *Four hours credit.*

A study of American literature in the late 19th and 20th centuries. The course includes reading and criticism of important writers.

110a,b,c. CREATIVE WRITING. *Two hours credit each.*

Opportunity to write creatively under criticism with emphasis upon the individual's own purposes and experiences.

200a,b,c,d. WORKSHOPS IN THE TEACHING OF ENGLISH. (Summer Sessions only.) *Three hours credit each.*

A series of workshops in special problems in the teaching of English, conducted by authorities in the field.

201. JOURNALISM—THE SCHOOL NEWSPAPER AND ANNUAL. *Three hours credit.*

Instruction in all phases of preparation and publication of school newspapers and annuals.

202. EXPLORATORY READING. (Summer Session only.) *Four hours credit.*

Contemporary literature as it relates to the needs of adolescents.

203. NEW APPROACHES TO THE TEACHING OF GRAMMAR. *Four hours credit.*

A consideration of the psychological, linguistic, and functional principles which affect the teaching of grammar. The development of new materials for grammar instruction in the light of these principles.

210. ADVANCED COMPOSITION. *Three hours credit.*

A course intended for upper division and graduate students to increase competence in expository writing. Special emphasis will be placed upon the correct presentation of the results of research. Attention will be given to footnotes, bibliography, methods of library research, manuscript form and style.

211. THE ENGLISH LANGUAGE. *Four hours credit.*

The course presents a history of the development of the English language, the historical basis of usage and grammar, the sources of the English vocabulary, and the problem of communication.

221. LITERATURE IN THE ELEMENTARY SCHOOL. *Three hours credit.*

A survey of children's literature that is appropriate for grades through the sixth. Chief emphasis on modern selections. Consideration of interests and abilities governing the choice of literature in the first six grades.

226. LITERATURE AND MATERIALS IN THE SECONDARY SCHOOL. *Four hours credit.*

Materials for teaching English in secondary schools. Principles for the selection of literature for high school pupils, and critical study of selected readings.

231. THE SHORT STORY. *Three hours credit.*

The study of typical modern short stories to observe the methods of modern writers and the interpretation of our present-day life embodied in this form of literature.

232. TECHNIQUES OF THE NOVEL. *Five hours credit.*

Ten novels will be studied intensively as illustrations of such techniques as impressionism, expressionism, and stream of consciousness. Points of view such as naturalism and realism will also be studied.

235. CONTEMPORARY AMERICAN DRAMA. *Three hours credit.*

A comprehensive view of the best dramatic literature of the modern American theater; lectures, discussions, and readings from a selected list of contemporary dramas.

239. THE FORMS AND MEANING OF POETRY. *Four hours credit.*

A study of some of the formal aspects of poetry (prosody, stanzaic and "named" forms, and the like), of types (lyric, narrative, dramatic), and of the poets' use of language.

255c. ELIZABETHAN DRAMA EXCLUSIVE OF SHAKESPEARE. *Three hours credit.*

The drama from 1558 to 1642; the major dramatists, stage conditions, acting companies, and changes in dramatic form and subjects reflecting the life of the times.

257. HISTORY OF IDEAS IN ENGLISH LITERATURE. *Three hours credit.*

A synthesis of the literary periods in English literature through a study of ideas.

258a. READINGS IN ENGLISH LITERATURE FROM 700-1800. (Summer Session only.) *Four hours credit.*

A survey of English literature from Beowulf to the Romantic Movement.

258b. READINGS IN ENGLISH LITERATURE FROM 1800-1945. (Summer Session only.) *Four hours credit.*

A survey of English literature from the Romantic Movement to the present time.

258c. READINGS IN AMERICAN LITERATURE TO 1865. (Summer Session only.) *Four hours credit.*

A survey of the beginnings of American literature until the time of the Civil War.

258d. READINGS IN AMERICAN LITERATURE SINCE 1865. (Summer Session only.) *Four hours credit.*

A survey of modern American literature.

289a. LITERATURE OF THE OLD TESTAMENT. *Three hours credit.*

A study of the Old Testament writings to develop an appreciation of their literary value. Study is made of the historical background of the various writings, and the ideas that were developed by the writers.

289b. LITERATURE OF THE NEW TESTAMENT. *Three hours credit.*

A study of the New Testament writings, the period in which they were written and the ideas that were developed by the writers.

290. LATIN-AMERICAN LITERATURE IN TRANSLATION. *Four hours credit.*

The nature, fundamental aspects and development of literature in Latin America, including Brazil, are studied. Readings, oral and written reports, and discussions cover literature of special interest from the colonial through the revolutionary and modern periods—the epic, romantic gaucho and realistic types.

291. FRENCH LITERATURE IN TRANSLATION. *Four hours credit.*

A rapid survey of French literature from the eleventh century to the present, stressing the relation of French literary movements to European cultural history and the influence of French writers upon western civilization. Lectures, individual readings, and reports.

0300. REMEDIAL WRITING LABORATORY FOR GRADUATE STUDENTS. *No credit.*

A required remedial writing laboratory for graduate students whose English usage ability is low and who need help. No credit will be granted for the course. An extra fee for services and materials will be charged.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students who intend to receive the degree of Master of Arts.

301. BRITISH LIFE AND LITERATURE SINCE 1920. *Four hours credit.*

Special study of Joyce, Lawrence, Forster, Huxley, Virginia Woolf, and T. S. Eliot. Contemporary literature related to other features of British life.

302. THE AMERICAN CRITICS. *Four hours credit.*

A seminar for graduate students in theory and practice of criticism of literature in America. The major critics and the recognizable "schools" are analyzed.

303. RECENT ENGLISH AND AMERICAN POETS. *Four hours credit.*

Prerequisite, Eng. 239. A history of recent poetry in English from the Imagists to the present.

304. THE GREEK DRAMA. *Four hours credit.*

A study of the dramas of Aeschylus, Sophocles, Euripides and Aristophanes to note the development of dramatic technique and the developing ideas from the beginnings of classicism, through the golden age, to decadence.

311. THE ENGLISH ROMANTIC MOVEMENT. *Four hours credit.*

The origin, purpose and nature of the Romantic Movement. A study of the poetry and criticism of Wordsworth, Coleridge, Shelley, Keats and Byron; the prose of Lamb, Hazlitt and DeQuincey.

312. OLD ENGLISH. *Five hours credit.*

Anglo-Saxon grammar and vocabulary. Reading of important documents from the period—Alfred's Translations, Charters and Historical Documents, Anglo-Saxon poetry, etc. Emphasis on background for contemporary grammar.

313. CHAUCER AND MIDDLE ENGLISH. *Five hours credit.*

Writings of Geoffrey Chaucer (especially *The Canterbury Tales* and *Troilus and Cressida*) in Middle English; selected writings to illustrate both the literary qualities and linguistic aspects of Middle English.

314. SHAKESPEARE SEMINAR. *Four hours credit.*

Detailed study of three of the great plays, introduction to Shakespearean scholarship, and a review of Shakespearean criticism. Offered only when five or more students request the course.

315. MILTON SEMINAR. *Four hours credit.*

A study of Milton's prose and poetry. Offered only when five or more students request the course.

316. SEMINAR IN TENNYSON AND BROWNING. *Five hours credit.*

A review of the shorter poems of both men and a special stress on some of the longer works (*Maud, Idylls of the King, The Ring and the Book*) and an introduction to the critical writings about Tennyson and Browning. Offered only when five or more students request the course.

317a,b. SEMINAR IN MAJOR AMERICAN WRITERS. *Four hours credit each.*

A study of selected American writers, with special emphasis on their relation to the currents of American thought. Reports by each member of the class will be determined by the interest of the student. Offered only when five or more students request the course.

318. SEMINAR IN RESTORATION AND EIGHTEENTH CENTURY DRAMA. *Four hours credit.*

A study of the types of plays written between 1660 and 1800, with particular attention to heroic tragedy, comedy of manners, and sentimental drama, as represented by such writers as Dryden, Wycherley, Etherege, Otway, Congreve, Steele, Addison, Goldsmith, and Sheridan. Offered only when five or more students request the course.

322. INDIVIDUAL STUDIES IN ENGLISH. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

Qualified students outline definite problems and present a typewritten paper.

323. SEMINAR IN TEACHING THE HUMANITIES. *Four hours credit.*

A consideration of the purpose of the humanities as a field for the discovery of human knowledge. The various plans for integrating the humanities are studied. The development of teaching materials is a part of the course work. Offered only when five or more students request the course.

324. SEMINAR IN COMMUNICATIONS. *Four hours credit.*

A study of the purpose of communications as a part of general education. The various types of communication courses offered in college general education programs will be studied. Each student will prepare and present practical materials for use in such courses. Offered only when five or more students request the course.

325. SEMINAR IN WORLD LITERATURE. *Five hours credit.*

Taught jointly by several members of the division, each presents one or more of the great literary masterpieces of the world. These will be considered in chronological order though no attempt will be made to carry on a historical study. Offered only when five or more students request the course.

326. RECONSTRUCTING THE ENGLISH CURRICULUM. *Four hours credit.*

A study of the place of English in the curriculum of the secondary school, with a consideration of appropriate materials and their placement.

399. THESIS. *Eight hours credit.***FOREIGN LANGUAGES MAJOR****Bachelor of Arts Degree (With Teaching Certificate)**

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed on page 111.
3. One minor of 24 quarter hours either within or outside the Division of the Humanities. If within the Division, it will be selected from Speech, Drama, or English.
4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

FOREIGN LANGUAGES MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

FOR BEGINNING STUDENTS IN LANGUAGES	<i>Hours</i>	<i>Credit</i>
1. Three years of one language (French or Spanish) - - - - -	36	
2. One year of a second language - - - - -	12-15	

FOR STUDENTS WITH LANGUAGE IN HIGH SCHOOL

1. If a student has had two or more years of a single language in high school, he may start his college work with the intermediate course in that language, taking 21 quarter hours of college work in it - - - - - 21
2. Second language will be selected by the student - - - - - 24
3. Advanced work in either (1) or (2) above - - - - - 3

Please Note—College credit will not be given for language courses taken in high school.

FOREIGN LANGUAGES

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 24; (2) The Foreign Language requirements listed for the major on this page; (3) One minor; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Minor in Foreign Languages • The requirements are 24 quarter hours in one language.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this year-book. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

FRENCH

1, 2, 3. ELEMENTARY FRENCH. *Five hours credit each.*

Introduction to spoken and written French, with emphasis on oral work. Principles of pronunciation and grammar; exercise in speaking, reading, and writing. Credit is not given until three quarters are completed.

5. INTERMEDIATE FRENCH COMPOSITION. *Three hours credit.*

Prerequisite, two years of high school French or one year of college French. Grammar review, study of idioms, imitative composition. Drill in use of the phonetic alphabet.

6. INTERMEDIATE FRENCH READING AND CONVERSATION. *Three hours credit.*

Prerequisite, two years of high school French or one year of college French. A study in French of French political and cultural history, with lectures, reading and conversation. (This course may be taken without having had French 5.)

7. INTERMEDIATE FRENCH FICTION. *Three hours credit.*

Prerequisite, two years of high school French or one year of college French. Short stories and plays. Conversation based on the reading. (This course may be taken without having had French 5 or 6.)

205, 206, 207. SURVEY OF FRENCH LITERATURE. *Four hours credit each.*

Prerequisite, two years of college French or the equivalent. A study of French literature from the eleventh century to the present. Lectures, reading, recitation, and individual reports in French. Each course may be taken independently. French 205, Medieval and Renaissance Literature; French 206, Classicism; French 207, Romanticism and Modern Literature.

225. EIGHTEENTH CENTURY FRENCH LITERATURE. *Three hours credit.*

Prerequisite, two years of college French or the equivalent. Literature, society, and trends of thought in eighteenth century France. Readings, lectures and discussion in French.

226. FRENCH ROMANTICISM. *Three hours credit.*

Prerequisite, two years of college French or the equivalent. The Romantic Movement in France in relation to the movement elsewhere in Europe. Readings, lectures and discussion in French.

227. TWENTIETH CENTURY FRENCH LITERATURE. *Three hours credit.*

Prerequisite, two years of college French or the equivalent. Lectures in French on writers and literary trends of this century, with extensive individual readings and reports.

GERMAN**1, 2, 3. ELEMENTARY GERMAN.** *Five hours credit each.*

The course aims to develop the ability to speak practical German accurately and fluently, and to read the language in direct comprehension. In the last quarter the reading is differentiated to suit individual purposes and may include simple scientific German. Credit is not given until three quarters are completed.

5. INTERMEDIATE GERMAN COMPOSITION. *Three hours credit.*

Prerequisite, two years of high school German or one year of college German. Review of grammar; imitative composition, oral drill.

6. INTERMEDIATE GERMAN READING AND CONVERSATION. *Three hours credit.*

Prerequisite, two years of high school German or one year of college German. Reading of modern German fiction, with conversation based on the reading. (This course may be taken without having had German 5.)

7. INTRODUCTION TO GERMAN CLASSICS. *Three hours credit.*

Prerequisite, German 5 or 6 or the equivalent. Reading and discussion of one classical play and short poems of the classical period.

ITALIAN**1, 2, 3. ELEMENTARY ITALIAN.** *Five hours credit each.*

A three-quarter sequence, with emphasis on pronunciation and vocabulary. Basic grammar, simple reading, and conversation. Credit is not given until three quarters are completed.

5. INTERMEDIATE ITALIAN. *Four hours credit.*

Prerequisite, two years of high school Italian or one year of college Italian. Advanced grammar with daily written composition and practice in conversation. Outside reading and reports.

LATIN**1, 2, 3. ELEMENTARY LATIN.** *Four hours credit each.*

A terminal course designed especially for students who wish Latin as a background for the study of English and other modern languages, for science and the professions. Emphasis is on vocabulary, word derivation, comparative grammar. Credit is not given until three quarters are completed.

5, 6, 7. INTERMEDIATE LATIN. *Three hours credit each.*

Prerequisite, two years of high school Latin or one year of college Latin. Reading of an anthology containing selections of intermediate grade, accompanied by constant intensive grammar review. Each course may be taken independently.

205, 206, 207. SURVEY OF LATIN LITERATURE. *Three hours credit each.*

Prerequisite, four years of high school Latin or two years of college Latin. A chronological study of Latin literature of the classical period covering five centuries. Each course may be taken independently.

SPANISH**1, 2, 3. ELEMENTARY SPANISH.** *Five hours credit each.*

A three-quarter sequence in the basic elements of Spanish through the aural-oral conversational approach; intensive and extensive use of aural-oral materials; writing and reading exercises; the use of audio-visual aids and devices to provide practical materials for pronunciation comprehension, adequate construction, and fluency of expression in the language. Credit is not given until three quarters are completed.

5. INTERMEDIATE SPANISH. *Four hours credit.*

Prerequisite, two years of high school Spanish or one year of college Spanish or the equivalent. Review of the basic principles of the language. Aural-oral orientation through oral and written composition, conversation and audio-visual aids; stressing normal fluency and readiness in the use of Spanish in ordinary communication.

6. INTERMEDIATE SPANISH. *Four hours credit.*

Prerequisite, Spanish 5. A continuation of Spanish 5 but emphasizing more intensive reading, oral reports, advanced composition, and extensive conversation based on Spanish and Spanish-American culture.

7. INTERMEDIATE SPANISH. *Four hours credit.*

Prerequisite, Spanish 6. A continuation of Spanish 6. Based on Spanish-American cultural materials, sources, films, audio-visual materials and a higher level of all-round comprehension and fluent functional use of the language and culture.

105. SURVEY OF SPANISH LITERATURE. *Three hours credit.*

Prerequisite, two years of college Spanish or the equivalent. An introduction and orientation to Spanish literature through reading and discussing appropriate materials designed for students beginning the advanced level. The materials portray the developments of literary and social ideas prevalent at various periods in the national life of Spain. Some English is used, when necessary, to interpret more accurately the significance; otherwise, Spanish is the language of the course. It is not a translation course.

106. SURVEY OF SPANISH-AMERICAN LITERATURE. *Three hours credit.*

Prerequisite, two years of college Spanish or the equivalent. Organized as a basic course, illustrating important periods and various genres of Spanish-American literature, by notable authors. The literary language of the representative samples selected is generally modernized to enable the student to understand it and to form critical opinions as well as to appreciate good writings as literature. Conducted in Spanish. Spanish 105 is not a prerequisite.

107. SURVEY OF LATIN-AMERICAN LITERATURE. *Three hours credit.*

Prerequisite, two years of college Spanish or the equivalent. A general survey of Latin-American literature and some of its underlying history. This course presents a comprehensive view of the literature of the Spanish-speaking world at various periods of time and is designed to provide the student with sufficient basic information and sources for him to use for practical purposes.

175. SPANISH READING. *Three hours credit.*

Prerequisite, at least one year of college Spanish or the equivalent. Designed to fit the reading abilities and interests of various members. Class meets two days a week for intensive reading. Extensive outside reading is reported in conference.

209. SPANISH-AMERICAN LITERATURE. *Three hours credit.*

This course is designed to serve advanced students and teachers of Spanish. It consists of an anthology of Latin-American literature in Spanish, and a brief reference outline of the history of literature, in English. Readings, discussions, and reports are in Spanish.

216a,b. ADVANCED SPANISH READING IN LITERATURE. *Three hours credit each.*

This study of Spanish literature is divided into two parts: one quarter is devoted to each part. 216a, from the beginning to 1700, including the Golden Age. 216b, from 1700 to the contemporary. A brief analysis of the history of Spanish literature and important literary productions. Special readings of various types of literature; oral and written reports and discussion. Conducted in Spanish.

FOREIGN LANGUAGE

222. INDIVIDUAL STUDIES IN FOREIGN LANGUAGE. *Credit by arrangement. Maximum credit, five hours.*

Prerequisite, two years in college, or the equivalent, of the language in which the study is made. Individual readings and written reports, with regular conferences, in any subject the student may select; in any foreign language offered in the college (French, German, Italian, Latin, Spanish).

231. THE TEACHING OF FOREIGN LANGUAGES. *Three hours credit.*

A study of problems in the teaching of foreign languages at the secondary and elementary school levels. Includes development of content for courses of study, organization of learning materials, procedures in teaching, testing and evaluating.

232. RECONSTRUCTING THE FOREIGN LANGUAGE CURRICULUM. *Three hours credit.*

Especially for teachers of the elementary school level, but including all levels of instruction. A study of today's practical values, aims, methods, approaches, procedures, and means and materials for attaining success in teaching modern foreign languages.

SPEECH OR DRAMA MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed on page 115.

3. At least one minor of 24 quarter hours. If the minor is English or Speech or Drama a second minor will be required either in Foreign Languages or outside the Division of the Humanities.

4. 28 to 35 quarter hours of electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

Students majoring or minoring in Speech or Drama are expected to participate in the activities related to those areas: theater production, forensics, radio, and clinical practice.

DRAMA MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Sp. 16	Voice and Diction	4	
Sp. 63	First Course in Drama	4	
Sp. 65	Beginning Scene Design	3	
Sp. 112	Children's Theater	3	
Sp. 114	Introduction to the Theater	3	
Sp. 115	Theater Workshop—Beginning Characterization	3	
Sp. 116	Theater Workshop—Beginning Play Direction	4	
Sp. 117	Oral Interpretation	3	
Sp. 164	Introduction to Remedial Speech	3	
Sp. 200	Techniques of Play Direction	3	
Sp. 215	Directing High School Plays	3	
Sp. 217	Advanced Oral Interpretation	3	
Sp. 232	Advanced Scene Design	3	
Eng. 50	Shakespeare	3	
Eng. 235	Contemporary American Drama	3	
			48

DRAMA MINOR

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Sp. 16	Voice and Diction	4	
Sp. 63	First Course in Drama	4	
Sp. 65	Beginning Scene Design	3	
Sp. 112	Children's Theater	3	
Sp. 115	Theater Workshop—Beginning Characterization	3	
Sp. 116	Theater Workshop—Beginning Play Direction	4	
Sp. 215	Directing High School Plays	3	
			24

SPEECH MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Sp. 5	Fundamentals of Speech	2	
Sp. 16	Voice and Diction	4	
Sp. 62	Public Speaking	4	
Sp. 63	First Course in Drama	4	
Sp. 114	Introduction to the Theater	3	
Sp. 117	Oral Interpretation	3	
Sp. 125	Teaching Speech in the Secondary School	3	
Sp. 164	Introduction to Remedial Speech	3	
Sp. 218	Discussion Techniques	4	
Sp. 265a	Remedial Speech Laboratory	1	
Sp. Electives		17	
			48

SPEECH MINOR

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Sp.	5	Fundamentals of Speech	- - - -	2
		or		
Sp.	62	Public Speaking	- - - -	4
Sp.	16	Voice and Diction	- - - -	4
Sp.	125	Teaching Speech in the Secondary School	- - - -	3
Sp.	164	Introduction to Remedial Speech	- - - -	3
Sp.	218	Discussion Techniques	- - - -	4
Sp.	265a	Remedial Speech Laboratory	- - - -	1
Sp.	Electives	- - - -	- - - -	5 or 7

For a total of 24

SPEECH OR DRAMA MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required. (1) Common Courses listed on page 24; (2) The Speech or Drama requirements listed for the major with teaching certificate except that substitutions may be made with the consent of the adviser; (3) One minor; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

SPEECH AND DRAMA**5. FUNDAMENTALS OF SPEECH.** *Two hours credit.*

This is a basic course in speech designed to aid the student in acquiring ease, poise, and effectiveness in speech.

16. VOICE AND DICTION. *Four hours credit.*

A study of the development and use of the speaking voice with particular attention to individual needs.

18a. ARGUMENTATION AND DEBATE. *Three hours credit.*

A basic course designed to give the speaker experience and skill in debate.

18b. INTERCOLLEGIATE DEBATE. *Two hours credit.*

Primarily for those students participating in campus and intercollegiate programs in discussion and debate.

45. SPEECH COMPOSITION. *Two hours credit.*

This course consists of the study of the techniques involved in the writing of speeches. Several speeches are studied analytically and speeches are then written to be memorized.

62. PUBLIC SPEAKING. *Four hours credit.*

Emphasis is placed on the preparation, organization, and presentation of the various types of speeches.

63. FIRST COURSE IN DRAMA. *Four hours credit.*

An introduction to the basic principles of acting and dramatic production.

§65. BEGINNING SCENE DESIGN. (Credit may be obtained in The Arts or Humanities.) *Three hours credit.*

For description of this course, see page 51.

112. CHILDREN'S THEATER. *Three hours credit.*

A lecture and laboratory course in dramatics for elementary and secondary school teachers. Contribution of creative dramatics to education. Demonstration of procedure best adapted to work in children's dramatics.

113. STAGECRAFT, LIGHTING AND COSTUMING. *Two hours credit.*
(*One hour lecture, two hours laboratory.*)

Prerequisite, Sp. 63 and/or Sp. 65 or equivalent. This course deals specifically with the problems and materials of play production. Materials and methods of staging, an introduction to lighting and lighting practices, and techniques of costuming the play receive the major emphasis in this course.

114. INTRODUCTION TO THE THEATER. *Three hours credit.*

A lecture and laboratory course in all aspects of play production. Attendance at rehearsals for campus productions required.

115. THEATER WORKSHOP—BEGINNING CHARACTERIZATION.
Three hours credit.

A lecture and laboratory course in characterization in which the student participates in college theater productions.

116. THEATER WORKSHOP—BEGINNING PLAY DIRECTION. *Four hours credit.*

A lecture and laboratory course in the principles of direction in which the student participates in college theater productions.

117. ORAL INTERPRETATION. *Three hours credit.*

The student is given an opportunity to read aloud in all the forms of literature and is aided in gaining skill in an artistic presentation.

125. TEACHING SPEECH IN THE SECONDARY SCHOOL. *Three hours credit.*

A study of objectives, problems, resources, and projects in the teaching of speech in junior and senior high schools.

164. INTRODUCTION TO REMEDIAL SPEECH. *Three hours credit.*

Sp. 16 suggested as preparatory. An introduction to the area of speech difficulties on the elementary, secondary, and college levels. Training in recognition, diagnosis and treatment of minor speech problems. Sp. 265a required as a part of the course.

200. TECHNIQUES OF PLAY DIRECTION. *Three hours credit.*

Prerequisites, Sp. 115, Sp. 116 or equivalent. An advanced course in the direction of three-act and one-act plays for public presentation.

208. RADIO SPEAKING. *Four hours credit.*

This course is designed to give an opportunity to study and practice the speech skills associated with radio production.

213. ADVANCED STAGING TECHNIQUES. (Summer Session only.)
Four hours credit.

Prerequisites, Sp. 65, Sp. 113, Sp. 232, or approval of the instructor. The study and practice of the latest trends and developments in scenic design, staging methods and techniques. Special attention is directed toward stage management, care and maintenance of equipment and materials. Emphasis is upon stage mechanics and materials of the modern theater.

214. SUMMER THEATER WORKSHOP. (Summer Session only.) *Four hours credit.*

Prerequisite, student must be a member of the summer theater company. Practical experience in acting and other aspects of theater work in the six productions done by the summer theater. Discussion, lecture, and laboratory procedures used.

215. DIRECTING HIGH SCHOOL PLAYS. *Three hours credit.*

The reading and discussion of plays suitable for production at the high school level. The projects in the course are designed to give the student practical experience in the direction of the plays.

217. ADVANCED ORAL INTERPRETATION. *Three hours credit.*

Prerequisite, Sp. 117 or consent of instructor. The development of greater skill in reading various forms of literature.

218. DISCUSSION TECHNIQUES. *Four hours credit.*

Principles and practice in organizing, conducting, and participating in all forms of public discussion including round-tables, symposiums, debates, and forums.

§232. ADVANCED SCENE DESIGN. (Credit may be obtained in The Arts or Humanities.) *Three hours credit.*

For description of this course, see page 53.

250. SPEECH EDUCATION. *Four hours credit.*

A seminar study of practices and trends in speech education in elementary and secondary schools.

§251. SPEECH FOR THE CLASSROOM TEACHER. (Credit may be obtained in Humanities or Education.) *Four hours credit.*

A course designed to increase the personal effectiveness of the teacher in the classroom with emphasis on the improvement of instructional speaking. Not for speech majors.

252. BUSINESS AND PROFESSIONAL SPEAKING. *Four hours credit.*

Designed particularly to give school administrators instruction and practice in organizing and presenting speeches which they are called upon to make in connection with their professional positions.

265. SPEECH PATHOLOGY. *Three hours credit.*

Prerequisite, Sp. 164. A consideration of disorders of articulation, phonation, rhythm, and symbolization with emphasis on methods and materials of re-education. Sp. 265a required as part of the course.

265a. REMEDIAL SPEECH LABORATORY. *Maximum of ten hours credit.*

This course supplements the methods of speech diagnosis and treatment with observation and supervised teaching in the college speech clinic and is a required part of Sp. 164, Sp. 265, and Sp. 266. A minimum of 200 clock hours in the laboratory is one of the requirements necessary to qualify for state certification as a speech correctionist.

265b. PRACTICUM IN AUDIOLOGY. *One or two hours credit.*

Principles of and experience in the administration of hearing tests and their evaluation.

266. ADVANCED SPEECH PATHOLOGY. *Three hours credit.*

Prerequisite, Sp. 164 or Sp. 265. A continuation of Sp. 164 and Sp. 265 with further study of severe disorders of speech and factors that contribute to these disorders, a study of problems of the hard of hearing, and an introduction to lip reading. Sp. 265a required as part of the course.

§268. TECHNIQUES OF REMEDIAL SPEECH IN THE CLASSROOM. (Credit may be obtained in Humanities or Education.) *Four hours credit.*

This course is designed to aid the classroom teacher in evaluating speech difficulties on the elementary and secondary levels and offers techniques that may be used in the correction of minor speech problems.

§294. CRITICAL THINKING. (Credit may be obtained in Humanities or Education.) *Three hours credit.*

A study of evidence, reasoning, semantics, beliefs, and prejudice as they affect thought processes involved in the communication of knowledge and ideas.

350. SPEECH CRITICISM. *Four hours credit.*

A study of public speaking in principle and practice, including the derivation and application of standards for judging effectiveness in speaking.

360. GENERAL SEMANTICS. *Four hours credit.*

An analysis of language habits which lead to conflict, confusion, and prejudice, and the development of methods leading to greater accuracy and sanity in the use of language.

367a,b,c,d,e,f,g. SEMINAR IN SPEECH PATHOLOGY. *Three hours credit.*

A study in any one of the areas of speech or hearing pathology; a) cerebral palsy, b) cleft palate, c) aphasia, d) stuttering, e) voice disorders, f) articulation disorders and g) audiological problems.

370. THE PSYCHOLOGY OF SPEECH. *Four hours credit.*

A study of the nature and origin of speech; the relationship of speech to emotion, learning, meaning and thought; the development of speech in the child; speech and personality.

375. PHONETICS. (Summer Session only.) *Four hours credit.*

The science of speech sounds with special application to the use of phonetics in speech instruction in elementary and secondary schools.

Division of Music

The Division of Music offers a complete program in the professional and cultural education of the music teacher and the musician. The areas of music study include music theory, sight singing and ear training, history and literature of music, music education, and all areas of individual music performance.

The academic programs are:

1. A major in Music leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates.
2. A five-year program leading to the Bachelor of Arts degree with teaching certificate and the Bachelor of Music degree.
3. A minor in Music for elementary education majors.
4. A minor in Music for students other than elementary education majors.

MUSIC MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed on page 120.
3. One minor of 24 quarter hours outside the Division of Music.
4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

MUSIC MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
Mus. 2a	Sight Singing and Notation	2	2
Mus. 2b	Sight Singing and Elementary Theory	2	2
Mus. 2c	Sight Singing and Harmonic Analysis	2	2
Mus. 50a,b,c	Introduction to Music Education	6	6
Mus. 51a	Advanced Sight Singing and Ear Training	2	2
Mus. 51b,c	Advanced Sight Singing and Choral Literature	4	4
Mus. 52a,b,c	Harmony	9	9
Mus. 152	Counterpoint	3	3
Mus. 153	Form and Analysis	3	3
Mus. 154	Instrumentation	3	3
Mus. 155a	Instrumental Conducting	2	2
Mus. 155b	Choral Conducting	2	2
Mus. 158a,b,c	History of Music	6	6
Mus. 165	Teaching Instrumental Music	2	2
			48

Music Proficiencies and Activity Requirements

Major Performance—Demonstrate the ability to present a musicianly performance in the playing of a music instrument or in singing. The student will be expected to appear as a soloist in a major portion of a senior recital. For most students this will entail continuous study of the major instrument.

Secondary Performance—Demonstrate the ability to use a secondary instrument or voice in ensemble playing or singing.

Piano—Demonstrate the ability to play, at sight, a piano accompaniment suitable for community or classroom singing.

Music Activity—Continuous participation in one or more music organizations of the college.

Elective credit may be used in enrolling for work in applied music and music activity. Such earned credit will apply toward graduation.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

Bachelor of Arts (With Teaching Certificate) and Bachelor of Music Degrees • (*Five-Year Combined Course*) Admission to candidacy for the combined Bachelor of Arts and Bachelor of Music degrees is based upon the recommendation of a reviewing committee composed of members of the Music Division. The student who desires to complete the combined degrees must demonstrate an outstanding degree of musical talent. Application for admission to the combined degrees program must take place prior to the close of the student's second year in college.

The following is required for the completion of the combined degrees program:

Music and Music Education Courses

<i>Course Number</i>	<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Bachelor of Arts Degree (with teaching certificate - - - - - 186 (Includes 6 quarter hours of physical education activity courses)			
Mus. 262 - - - -	Symphonic Literature - - - - -	3	
Mus. 270a,b - - - -	Advanced Harmony and Form Analysis -	6	
Mus. 277 - - - -	History of Music Theory - - - - -	3	

198

Music Proficiencies • Complete the proficiency requirements outlined for the Bachelor of Arts degree. In addition, the student will supplement this proficiency requirement by:

Major Performance—Complete 27 additional quarter hours of work in his major instrument. The student will register for three quarter hours of work in his major instrument each term through the third, fourth, and fifth years of study.

Recital—Each candidate for the combined degrees will present a complete graduation recital.

Music Minor for Elementary Education Majors

<i>Course Number</i>	<i>Course Title</i> <i>(Required)</i>	<i>Hours</i>	<i>Credit</i>
Mus. 48a,b - - - -	Music for Elementary Teachers - - -	4	
Mus. 149 - - - -	Music Methods and Materials for Elementary Teachers - - - - -	3	
Mus. *199f - - - -	Class Instruction in Piano - - - - - <i>and/or</i>	2	
Mus. 31 - - - -	Individual Instruction in Piano - - -	3 to 5	
Mus. **142 - - - -	Concert Band <i>or</i>		
Mus. 143 - - - -	Concert Orchestra <i>or</i>		
Mus. 144 - - - -	Mixed Concert Choir - - - - -	3	
Nine hours additional selected with the approval of the minor adviser - - -		9	

For a total of 24

*The elementary education music minor should earn five credit hours in piano. This may be a combination of Music 199f and Music 31. Consult a Music Division adviser in planning the program.

**One year of continuous activity in a music organization—band, orchestra or choir.

<i>Course Number</i>	<i>Course Title</i> <i>(Recommended Electives)</i>	<i>Hours</i>	<i>Credit</i>
Mus. 100 - - - -	Music Appreciation - - - - -	2	
Mus. 199e - - - -	Class Instruction in Voice - - - - -	2	
Mus. 210 - - - -	Music Literature for Elementary Grades -	3	
Mus. 211 - - - -	Improvement of Instruction in Music Reading - - - - -	4	
Mus. 212 - - - -	Music Activities for Classroom Teachers -	4	
Mus. (selected) - - - -	Individual Instruction in Music Performance		

Music Proficiency • In addition to the satisfactory completion of 24 quarter hours of course work in music the elementary major who elects a minor in music must, prior to graduation, demonstrate the ability to play a simple piano accompaniment suitable for classroom singing. Credit earned for such music performance study carried on in college will apply on the 24 quarter hour requirement.

Music Minor for Non-Elementary Education Majors

<i>Course Number</i>	<i>Course Title (Required)</i>	<i>Hours</i>	<i>Credit</i>
Mus. 2a	Sight Singing and Notation	2	-
Mus. 2b	Sight Singing and Elementary Theory	2	-
Mus. 2c	Sight Singing and Harmonic Analysis	2	-
Mus. 50a,b,c	Introduction to Music Education	6	-
Mus. 158a,b,c	History of Music	6	-
Six quarter hours additional selected with the approval of the minor adviser		6	-
		24	-

(Recommended Electives)

Mus. 51a	Advanced Sight Singing and Ear Training	2	-
Mus. 51b,c	Advanced Sight Singing and Choral Literature	4	-
Mus. 155a	Instrumental Conducting	2	-
Mus. 155b	Choral Conducting	2	-
Mus. 199	Class Instruction in Instruments or Voice	-	-
Mus. (selected)	Individual Instruction in Music Performance	-	-

Provision is made for a minor concentration in (1) choral directing and (2) instrumental directing.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this year-book. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

MUSIC THEORY, HISTORY AND LITERATURE

2a. SIGHT SINGING AND NOTATION. *Two hours credit.*

Sight reading of standard music materials, pitch and rhythmic dictation, symbols of music notation, staff, clefs, scale construction in major and minor keys, and intervals.

2b. SIGHT SINGING AND ELEMENTARY THEORY. *Two hours credit.*

Prerequisite, Music 2a. Continuation of sight reading, ear training, and dictation; elementary theory to include study of intervals and inversions, triads and inversions, construction of principal and secondary chords, melody writing, and elementary form study.

2c. SIGHT SINGING AND HARMONIC ANALYSIS. *Two hours credit.*

Prerequisite, Music 2b. Continuation of sight reading, ear training and dictation; chords of seventh and ninth, cadences, analysis, and ear training of standard harmonic materials.

48a. MUSIC FOR ELEMENTARY TEACHERS. *Two hours credit.*

A comprehensive study of the rudiments of music, gauged to fit the needs of the classroom teacher who teaches her own music. Practice is given in simple ear training, dictation, rhythm work, syllable reading, and group singing.

48b. MUSIC FOR ELEMENTARY TEACHERS. *Two hours credit.*

Prerequisite, Music 48a or equivalent. A continuation of 48a through more difficult ear training, music dictation, syllable reading, and rhythmic problems; a study of scales, intervals, and chords, and the playing of simple melody instruments.

51a. ADVANCED SIGHT SINGING AND EAR TRAINING. *Two hours credit.*

Prerequisite, Music 2c or equivalent. This course is a continuation of the first-year courses in sight singing and will provide additional and more advanced

training in the techniques of sight singing and ear training of melodic, harmonic, and rhythmic materials.

51b. ADVANCED SIGHT SINGING AND CHORAL LITERATURE. *Two hours credit.*

Prerequisite, Music 51a. A continuation of training in sight singing and ear training. Includes rhythmic, melodic, and harmonic dictation. Emphasis will be given to the reading of a wide variety of standard choral works graded to supply reading experiences of progressive difficulty.

51c. ADVANCED SIGHT SINGING AND CHORAL LITERATURE. *Two hours credit.*

Prerequisite, Music 51b. A continuation of the sight singing, ear training, and dictation experiences given in the preceding courses of this series. Reading experience in this course will include standard materials for mixed, women's and men's choruses, and the larger vocal forms such as opera and oratorio.

52a. HARMONY. *Three hours credit.*

Prerequisite, Music 2c. A review of scales, intervals, triads and their inversions; normal chord progressions; correlated studies in ear training, dictation, sight singing and composition.

52b. HARMONY. *Three hours credit.*

Prerequisite, Music 52a. A structural harmony unit consisting of seventh chords, inversions, ninth chords and modulations; correlated studies of ear training, dictation, sight singing and composition.

52c. HARMONY. *Three hours credit.*

Prerequisite, Music 52b. A structural harmony unit consisting of chromatic harmony, altered chords, embellishing chords, modulations and original compositions.

54. KEYBOARD HARMONY. *Two hours credit.*

Prerequisite, elementary piano ability. For classroom teachers of elementary music. The primary objective of the course is to help the student learn to play simple accompaniments to songs for children when given the melody only.

100. MUSIC APPRECIATION. *Two hours credit.*

An analysis of the basic elements of music through record listening and study for a better appreciation of the art.

152. COUNTERPOINT. *Three hours credit.*

Prerequisite, Music 52c. A study of the five species of counterpoint through four parts (or voices); the invention, canon, and fugue; a seminar on the construction and form as applied to contrapuntal technique.

153. FORMS AND ANALYSIS. *Three hours credit.*

The purpose of this course is to acquaint the student with the structure of music, beginning with the single note or figure through to the analysis of the sonata, rondo, and variation forms.

154. INSTRUMENTATION. *Three hours credit.*

Prerequisites, Music 152, 153. A course planned to develop knowledge and skill in arranging and orchestrating for various combinations of instruments from a few instruments to a full symphony orchestra.

155a. INSTRUMENTAL CONDUCTING. *Two hours credit.*

The technique and practice of instrumental conducting. Use of the baton, conducting basic measure rhythms, indicating variations in dynamics, and tempo variations. Actual experience in conducting instrumental groups is provided.

155b. CHORAL CONDUCTING. *Two hours credit.*

Problems of conducting high school choral groups including rehearsal organization and procedure, tone production, diction, dynamics, tone color, intonation, and other problems of song interpretation. Actual conducting experience of choral singing is provided.

156. SEMINAR IN PIANO LITERATURE. *Two hours credit.*

To acquaint piano teachers and performers with repertoire. Traditional styles, techniques, and interpretations discussed and performed. Practical appli-ance of fundamental techniques to teaching and performance. Solo and ensemble playing.

158a. HISTORY OF MUSIC. *Two hours credit.*

Prerequisite, Music 2c. The historical changes in music from earliest times to the sixteenth century ending with analysis of the great church works of Palestrina.

158b. HISTORY OF MUSIC. *Two hours credit.*

Prerequisite, Music 158a. The period from Palestrina to 1800 with emphasis on the changes caused by the Reformation and the development of instruments and ending with a study of the works of Beethoven.

158c. HISTORY OF MUSIC. *Two hours credit.*

Prerequisite, Music 158b. A survey of the music development from Beethoven to the contemporary composers.

257. PHYSICS OF MUSIC INSTRUMENTS. *Three hours credit.*

The objectives of this course are to develop an understanding of the physical principles of sound and a study of the acoustical problems in music performance.

262. SYMPHONIC LITERATURE. *Three hours credit.*

A study of the literature for the symphony orchestra from the time of Haydn and Mozart to present day composers, leading to an understanding and appreciation of the larger works in music.

270a. ADVANCED HARMONY AND FORM ANALYSIS. *Three hours credit.*

Prerequisite, Music 154. Analysis and composition of the larger forms to include the history and development of the sonata, rondo, variations, polyphonic, free forms and style pieces.

270b. ADVANCED HARMONY AND FORM ANALYSIS. *Three hours credit.*

Prerequisite, Music 270a. Analysis and composition of primary forms to include irregular phrases and extension devices, harmonization of melodies, review of figured bass, modulation, non-chordal tones, altered chords, and a survey of homophonic forms.

276. SURVEY OF AMERICAN MUSIC. *Three hours credit.*

A comprehensive study of the music of our country and the people who have produced it, tracing the development of vocal and instrumental music from the time of the Puritans and Pilgrims to today. Some topics are folk music, symphony orchestra, jazz, and new film music. Not limited to music majors.

277. HISTORY OF MUSIC THEORY. *Four hours credit.*

Prerequisite, Music 158c. The history of music composition from the early Greek scales to modern usage with special emphasis on the theoretical principles underlying this development.

295. SEMINAR IN THE ART OF MUSIC LISTENING. *Four hours credit.*

A course designed to provide the layman with essential information about music, and to contribute to those understandings that will make him a more intelligent listener. Content of the course includes music in its relation to significant historical epochs, the relation of the arts, and developing of a familiarity with many examples of standard music literature.

350. PRACTICAL ARRANGING. *Three hours credit.*

Prerequisite, Music 154. A project course in arranging for school instrumental and vocal groups. Projects include arranging for small ensembles in both standard and unusual combinations, transcription of parts suitable to individual performers, and the composing and arranging of instrumental and vocal descants for the enrichment of song literature.

351. ADVANCED CONDUCTING. (Summer Session only.) *Four hours credit.*

Prerequisites, Music 155a,b. A laboratory course in advanced problems of instrumental and choral conducting. Supervised conducting experience is provided.

360. HISTORICAL ANALYSIS OF MUSIC STRUCTURE. *Four hours credit.*

Prerequisite, Music 158c. An examination of the technical and theoretical aspects of music development from about 900 to the present time to discover the style of each period through the analysis of the various devices used.

361. SEMINAR IN AESTHETICS AND CRITICISM. (Summer Session only.) *Four hours credit.*

A study of the literature of aesthetics with specific consideration of its implications for music in an educational program.

370. AURAL THEORY FOR GRADUATE STUDENTS. (Summer Session only.) *Four hours credit.*

A study of an aural approach to the problems of pitch and rhythm in music, with special emphasis on its application to music reading problems encountered in elementary and secondary schools.

MUSIC EDUCATION**50a. INTRODUCTION TO MUSIC EDUCATION.** *Two hours credit.*

Prerequisite, Music 2c. An introduction course for prospective teachers of music covering the place of music in the school program, recent trends in school music, the qualifications of the music teacher, and a consideration of beginning instructional problems.

50b. INTRODUCTION TO MUSIC EDUCATION. *Two hours credit.*

A continuation of 50a. Methods and materials for the teaching of singing, music reading and related skills, music listening, and rhythm in the public school music program.

50c. INTRODUCTION TO MUSIC EDUCATION. *Two hours credit.*

A continuation of 50b. A study of lesson planning, and classroom techniques in the teaching of music reading, appreciation, creative music, music listening, and rhythm. Techniques in conducting high school music.

149. MUSIC METHODS AND MATERIALS FOR ELEMENTARY TEACHERS. *Three hours credit.*

Prerequisite, Music 48b or equivalent. A comprehensive music methods course for the elementary classroom teacher. Problems of the child voice, singing, ear training, rhythm, and note reading are studied and clarified. Music appreciation for each grade is discussed and records suggested. A repertoire of children's songs is built up through the quarter.

151. PRINCIPLES OF PIANO TEACHING. *Three hours credit.*

Prerequisite, Music 2c. This course includes a study of the principles of piano teaching, student observation of teaching procedures, the analysis of specific learning problems, the establishing of reading-readiness for the piano, the combining of ear training and theory with piano lessons, and a study of criteria for the selection of materials.

165. TEACHING INSTRUMENTAL MUSIC. *Two hours credit.*

This course includes a study of both the physical and musical aspects of instrumental music in the public schools, and assists the student in making a systematic preparation for the task of developing a well-rounded instrumental music program.

210. MUSIC LITERATURE FOR ELEMENTARY GRADES. *Three hours credit.*

Song literature for classroom use; the elementary school choir; materials for special music programs; elementary school operettas and cantatas; music for listening and rhythmic activities. This course is designed to meet the needs of both the elementary classroom teacher and the music supervisor.

211. IMPROVEMENT OF INSTRUCTION IN MUSIC READING. *Four hours credit.*

Prerequisite, an elementary course in music methods. A complete analysis of the program in music reading in the elementary grades. Includes a study of the psychological principles in music reading, constructing a curriculum in music reading development, and a survey of published materials for classroom use.

212. MUSIC ACTIVITIES FOR CLASSROOM TEACHERS. *Four hours credit.*

Activities in music for children requiring a minimum of musical skill on the part of the teacher. Includes a study of such activities as playing and reading music with simple melody instruments, the use of the autoharp for song accom-

paniment, the rhythm band, the construction of simple instruments, and the teaching of songs and rhythmic activities through the use of the phonograph.

213. PUBLIC PERFORMANCE WORKSHOP. (Summer Session only.)
Four hours credit.

Types of music programs for school and community. Includes operetta materials and production, the cantata, the all-school musical, program building for the formal concert, public performance management, the music festival, and the church choir.

214. CHORAL LITERATURE (Summer Session only.) *Four hours credit.*

A study of choral literature for high school and community groups. The mixed chorus, girls' glee club, boys' glee club, the small vocal ensemble, and literature for church choirs. All examples will be read by the class.

215. INSTRUMENTAL LITERATURE. *Three hours credit.*

A study of instrumental literature for school groups—the high school band and orchestra; materials for class and individual instruction; and literature for the small instrumental ensemble.

216. METHODS AND MATERIALS FOR CLASS VOICE INSTRUCTION. (Summer Session only.) *Four hours credit.*

Organization of the voice class, a study of voice production problems, procedures and techniques of group instruction, and a review of song literature for group and solo work.

218. MUSIC ENSEMBLE WORKSHOP. (Summer Sessions only.) *Three hours credit.*

A workshop course emphasizing ensemble work in all areas of vocal and instrumental music. Covers materials, techniques, methods, artistry in performance, rehearsal problems, and problems in public presentation.

219. MUSIC WORKSHOP FOR ELEMENTARY CLASSROOM TEACHERS AND SUPERVISORS. (Summer Sessions only.) *Three hours credit.*

Workshop in elementary school music covering techniques and materials in teaching music reading, singing activities, lessons in music listening, the rhythm program for children, instrumental music for elementary groups, and creative music for children.

220. INSTRUMENT REPAIR AND CARE. *Two hours credit.*

Study of the care and repair of band and orchestral instruments. Practical experience in instrument repairs which requires a minimum amount of equipment, skill and time.

223a. PRACTICUM IN BAND CONDUCTING AND PERFORMANCE.
(Summer Session only.) *Four hours credit.*

A course in practical techniques of band conducting and performance including actual performance under outstanding band conductors. Supervised conducting under laboratory conditions. Seminar covering problems of marching band, band literature, and band organization. Open to students by performance audition.

223b. PRACTICUM IN CHORAL CONDUCTING AND PERFORMANCE.
(Summer Session only.) *Four hours credit.*

Prerequisite, one year of successful choral teaching experience. A workshop course in advanced choral conducting and performance. Provides opportunity for supervised conducting, analysis of choral materials, problems of choral organization, a study of the literature of choral conducting and practices.

223c. PRACTICUM IN ORCHESTRAL CONDUCTING AND PERFORMANCE. (Summer Session only.) *Four hours credit.*

Prerequisites, a satisfactory audition for the concert orchestra and previous conducting experience. A workshop course in advanced orchestral conducting and performance. Provides opportunity for supervised conducting, analysis of orchestral material, problems of organization, a study of the literature of orchestral conducting and practice.

250. SEMINAR IN MUSIC EDUCATION. *Three hours credit.*

Prerequisite, Ed. 151. A course designed for seniors who have completed student

teaching with each student working independently on a problem occurring in his student teaching work. The class is conducted as a seminar with reports and discussion of the student's problem.

251. TEACHING SECONDARY SCHOOL MUSIC. *Four hours credit.*

Prerequisite, Ed. 151. A study of the general music program in the junior high school. The changing voice, instructional problems and material for vocal ensembles, operetta production, the special music class in high school, and the improvement of music reading in both junior and senior high school music groups.

252a,b,c. TECHNIQUES AND REPERTOIRE FOR THE ACCOMPANIST. *Two hours credit each.*

Prerequisite, pianistic skill not less than grade five. This course is designed to familiarize the piano student with the skills expected of the accompanist for (a) a chorus, (b) a solo voice, (c) an instrumental soloist. Special emphasis will be placed on the study of the styles of various periods and composers and the repertoire thereof.

256. PSYCHOLOGY OF MUSIC. *Three hours credit.*

The topics included in this course are measurement of musical talent, the psychology of music listening, and musical performance.

274. TEACHING MUSIC APPRECIATION. *Three hours credit.*

Prerequisites, Music 50c, Ed. 150d and 150e. Developing a music listening program for schools covering methods of teaching, recorded materials, the construction of a grade-by-grade program, and a study of the published materials about music suitable for elementary and high school students.

§279b. ADMINISTRATION AND SUPERVISION OF THE MUSIC PROGRAM. (Credit may be obtained in Music or Education.) *Three hours credit.*

A course designed to acquaint the school administrator with the problems of the administration and supervision of the music program. The content includes the place of music in the school program, music equipment, schedule, budget, instructional problems, and public relations in music.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students who intend to receive the degree of Master of Arts.

305. SUPERVISING ELEMENTARY TEACHERS OF MUSIC. (Summer Session only.) *Four hours credit.*

Procedures for supervision and guidance of the elementary music program, cooperative curriculum building, lesson planning, the induction of the beginning teacher, and in-service education for the classroom music teacher.

306. TEACHER EDUCATION IN MUSIC. (Summer Session only.) *Four hours credit.*

The teacher education program in music including both the pre-service and in-service education of the elementary classroom teacher, the teachers college music curriculum, the administration of college music, and the music program in general education.

310. PROBLEMS OF INSTRUMENTAL SUPERVISION. (Summer Session only.) *Four hours credit.*

A discussion and study of the problems of instrumental supervision based upon an analysis of the professional problems found to exist in the field of teaching instrumental music.

311. IMPROVEMENT OF INSTRUCTION IN INSTRUMENTAL MUSIC. *Three hours credit.*

An advanced methods course dealing with the development of basic musicianship through performance in instrumental music. The course will include the development of pitch, rhythm, reading, writing, and theory. A unit dealing with the cultural and historical background of instrumental music will be included.

317a. INSTRUMENTAL TECHNIQUES AND MATERIALS (VIOLIN AND VIOLA). (Summer Session only.) *Four hours credit.*

Prerequisite, 199a or equivalent. A discussion and presentation of the methods

used in both class violin and viola teaching and private lessons and a study of the materials used in class teaching. Continued proficiency in actual performance by the student.

317b. INSTRUMENTAL TECHNIQUES AND MATERIALS (CELLO AND BASS). (Summer Session only.) *Four hours credit.*

Prerequisite, 199a or equivalent. A study through musical analysis of the solo and ensemble literature for the cello and bass; an advanced course in playing techniques, instructional materials and problems.

317c. INSTRUMENTAL TECHNIQUES AND MATERIALS (WOOD-WINDS). (Summer Session only.) *Four hours credit.*

Prerequisite, 199b or equivalent. This course provides an opportunity for the graduate student to study the techniques peculiar to instruments of the woodwind family; to gain additional proficiency in playing; to study teaching materials suitable for both individual and group instruction; and to become familiar with the standard solo and small ensemble literature for these instruments.

317d. INSTRUMENTAL TECHNIQUES AND MATERIALS (BRASS). (Summer Session only.) *Four hours credit.*

Prerequisite, 199c or equivalent. An advanced course in the techniques, theories and problems of teaching and playing brass instruments.

322. INDIVIDUAL STUDIES IN MUSIC. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

An opportunity for the graduate student to carry on a research project of his own choice under the supervision of a faculty representative.

323. COMPARATIVE VOICE METHODS AND MATERIALS. (Summer Session only.) *Four hours credit.*

This course deals with singing from the teaching and performing standpoint; the development of singing through the centuries, identifying and evaluating contributions of the various schools; materials are supplied and evaluated for teaching purposes. Each student takes one private lesson each week in addition to the class work and outside readings.

324. COMPARATIVE VIOLIN METHODS AND MATERIALS. (Summer Session only.) *Four hours credit.*

A comparison of the methods and materials used in violin teaching; a study of the basic principles of violin playing. Each student takes one private lesson each week in addition to the class work.

325. COMPARATIVE PIANO METHODS AND MATERIALS. *Four hours credit.*

This course is designed for music majors and piano instructors of the graduate level. A thorough study of the leading methods, both past and present, is made along with studies of the basic fundamentals of piano teaching and techniques. Material for all levels of instruction is presented. Each student takes one private lesson each week in addition to the class work.

399. THESIS. *Eight hours credit.*

The Division of Music offers the graduate student an opportunity to either carry on a research project in the music field or to submit a creative thesis in the form of an original composition in one of the larger instrumental or vocal forms.

MUSIC ACTIVITIES

21. INSTRUMENTAL ENSEMBLES. *One hour credit.*

Instrumental ensembles include woodwind quartet, string quartet, string trio, and brass ensemble. Groups organized are based upon the talents and interests of the students.

22. VOCAL ENSEMBLES. *One hour credit.*

Vocal ensembles include men's glee club, women's glee club, trios, and quartets. Groups organized are based upon the talents and interests of the students.

141. MARCHING BAND. *One hour credit.*

Open to all students, regardless of major field, who have had high school band experience. A study and practice of the fundamentals of drill and presentation

of marching maneuvers and pageants at athletic events. Satisfies physical education requirement for Fall quarter.

142. CONCERT ORCHESTRA. *One hour credit.*

The standard orchestral literature is performed. The materials used are suitable for high school orchestras with especial emphasis devoted to contest and festival programs.

143. CONCERT BAND. *One hour credit.*

Open to all students who demonstrate sufficient ability to study, rehearse, and present advanced forms of concert and symphonic band literature.

144. MIXED CONCERT CHOIR. *One hour credit.*

A selected group of singers who engage in concert performance of the best in choral literature for mixed voices.

145. MEN'S CONCERT CHOIR. *One hour credit.*

Open to all men who wish to participate in the singing of men's glee club music.

146. WOMEN'S CONCERT CHOIR. *One hour credit.*

Open to all women who wish to participate in the singing of women's glee club music.

INSTRUCTION IN MUSIC PERFORMANCE

INDIVIDUAL INSTRUCTION. *One hour credit.*

The Division of Music offers an opportunity for the student to study voice or any major instrument individually with a studio teacher. Such instruction normally provides for one lesson each week. Practice facilities including both the rental of practice rooms and instruments are available.

- 30.** Individual Instruction in Voice.
- 31.** Individual Instruction in Piano.
- 32.** Individual Instruction in Stringed Instruments.
(violin, viola, cello, bass)
- 33.** Individual Instruction in Organ.
- 34.** Individual Instruction in Percussion Instruments.
- 35.** Individual Instruction in Woodwind Instruments.
(flute, clarinet, oboe, English horn, bassoon)
- 36.** Individual Instruction in Brass Instruments.
(trumpet, French horn, trombone, baritone, tuba)

CLASS INSTRUCTION. *Two hours credit.*

Class instruction in the playing of instruments and in singing is offered to the student who desires to develop a teaching and conducting knowledge of instruments outside his field of specialization in applied music. Through group study the student acquires sufficient skill in performance that he can introduce the playing of the instrument studied to beginning pupils. He acquires an understanding of the possibilities and functions of the instrument in music organizations, and gains an elementary understanding of materials and procedures employed in class instruction for beginners.

- 199a.** Class Instruction in Stringed Instruments.
- 199b.** Class Instruction in Woodwind Instruments.
- 199c.** Class Instruction in Brass Instruments.
- 199d.** Class Instruction in Percussion Instruments.
- 199e.** Class Instruction in Voice.
- 199f.** Class Instruction in Piano.

Division of the Sciences

The Division of the Sciences includes the fields of General Science, Biology, Botany, Chemistry, Mathematics, Physics, Science Education, and Zoology.

The academic programs are:

1. A major in Science leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates, concentrations to be in Biological Science or Physical Science.

2. A major in Mathematics leading to the Bachelor of Arts and Master of Arts degrees with teaching certificates.

3. A major in Science Education leading to the Master of Arts degree with teaching certificate.

4. Minors in Elementary Science, Mathematics, Biological Science, and Physical Science Minor in Chemistry and Physical Science Minor in Physics. A 24-hour General Science Minor may be earned in the Science Division by selecting 24 hours of work in science courses (with at least 8 hours in one field) with the advice and approval of the student's adviser.

5. A major in Science or Mathematics leading to the Bachelor of Arts degree (liberal arts).

SCIENCE MAJOR (WITH CONCENTRATION IN BIOLOGICAL SCIENCE)

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed on page 131.

3. One minor of 24 quarter hours. It is recommended that this minor be in Mathematics.

4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation. It is recommended that a Science major graduate with 15 quarter hours in Chemistry, 15 quarter hours in Physics, 10 quarter hours in Botany, 10 quarter hours in Zoology and 5 quarter hours in Human Biology.

Programs must be planned with the student's adviser.

**SCIENCE MAJOR (WITH CONCENTRATION
IN BIOLOGICAL SCIENCE)**

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Biol.	51	- - - - Human Biology - - - -	-	5
Bot.	22	- - - - General Botany - - - -	-	5
Bot.	23	- - - - General Botany - - - -	-	5
Chem.	40a	- - - - Principles of Chemistry (5 hours) - -	-	
Chem.	40b	- - - - General Inorganic Chemistry (5 hours) -	-	
Chem.	40c	- - - - Introductory Organic Chemistry (5 hours)	-	
		or		
Phys.	61	- - - - General Physics—Mechanics and Heat (5 hours) - - - -	-	
Phys.	62	- - - - General Physics—Electricity (5 hours) -	-	
Phys.	63	- - - - General Physics—Sound, Light, and Atomic Physics (5 hours) - - - -	15	
Zool.	11	- - - - General Zoology—Invertebrate - - - -	5	
Zool.	12	- - - - General Zoology—Vertebrate - - - -	5	
Biol. (electives to be selected with approval of the student's adviser) - - - -				8
				48

Biological Science Minor

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Biol.	51	- - - - Human Biology - - - -	-	5
Bot.	22	- - - - General Botany - - - -	-	5
Bot.	23	- - - - General Botany - - - -	-	5
Zool.	11	- - - - General Zoology—Invertebrate - - - -	5	
Zool.	12	- - - - General Zoology—Vertebrate - - - -	5	
				25

Elementary Science Minor

<i>Course Number</i>		<i>Course Title</i>	<i>Hours</i>	<i>Credit</i>
Biol	51	- - - - Human Biology - - - -	-	5
Sci.	30	- - - - Science Concepts for Elementary Grades -	4	
Sci.	31	- - - - Physical Science for Elementary Teachers -	4	
Science (electives to be selected with approval of the student's adviser) - - - -				11
				24

General Science Minor

A 24-hour General Science minor may be earned in the Science Division by selecting 24 hours of work in science courses (with at least 8 hours in one field) with the advice and approval of the student's adviser.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

**SCIENCE MAJOR (WITH CONCENTRATION
IN PHYSICAL SCIENCE)**

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed below.

3. One minor of 24 quarter hours. It is recommended that this minor be in Mathematics.

4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation. It is recommended that a Science major graduate with 15 quarter hours in Chemistry, 15 quarter hours in Physics, 10 quarter hours in Botany, 10 quarter hours in Zoology, and 5 quarter hours in Human Biology.

Programs must be planned with the student's adviser.

SCIENCE MAJOR (WITH CONCENTRATION IN PHYSICAL SCIENCE)

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
Chem. 40a	Principles of Chemistry	- - - -	5
Chem. 40b	General Inorganic Chemistry	- - - -	5
Chem. 40c	Introductory Organic Chemistry	- - - -	5
Phys. 61	General Physics—Mechanics and Heat	- - - -	5
Phys. 62	General Physics—Electricity	- - - -	5
Phys. 63	General Physics—Sound, Light, and Atomic Physics	- - - -	5
Biol. 51	Human Biology (5 hours)	- - - -	
Bot. 22	General Botany (5 hours)	- - - -	
Bot. 23	General Botany (5 hours)	- - - -	
Biol. 51	Human Biology (5 hours)	- - - -	
Zool. 11	General Zoology—Invertebrate (5 hours)	- - - -	
Zool. 12	General Zoology—Vertebrate (5 hours)	- - - -	15
Phys. Sci.	(electives to be selected with approval of the student's adviser)	- - - -	3
			48

Physical Science Minor in Chemistry

Course Number	Course Title	Hours	Credit
Chem. 40a	Principles of Chemistry	- - - -	5
Chem. 40b	General Inorganic Chemistry	- - - -	5
Chem. 40c	Introductory Organic Chemistry	- - - -	5
Phys. Sci.	(electives to be selected with approval of the student's adviser)	- - - -	9
			24

Physical Science Minor in Physics

Course Number	Course Title	Hours	Credit
Phys. 61	General Physics—Mechanics and Heat	- - - -	5
Phys. 62	General Physics—Electricity	- - - -	5
Phys. 63	General Physics—Sound, Light, and Atomic Physics	- - - -	5
Phys. Sci.	(electives to be selected with approval of the student's adviser)	- - - -	9
			24

SCIENCE MAJOR (WITH CONCENTRATION IN BIOLOGICAL SCIENCE)

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 24; (2) At least 48 quarter hours in Science as listed in the preceding section under Bachelor of Arts degree (with teaching certificate);

- (3) One minor of 24 quarter hours preferably in Mathematics;
 (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

SCIENCE MAJOR (WITH CONCENTRATION IN PHYSICAL SCIENCE)

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 24; (2) At least 48 quarter hours in Science as listed in the preceding section under Bachelor of Arts degree (with teaching certificate); (3) One minor of 24 quarter hours preferably in Mathematics; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this year-book. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

GENERAL SCIENCE

3. PHYSICAL SCIENCE. *Three hours credit.*

The study of important general principles of physics and chemistry and their social implications in modern civilization. These will help the student to develop correct concepts about the world in which he lives.

4. BIOLOGICAL SCIENCE. *Three hours credit.*

The study of important general concepts of the nature of life. Prepared especially to help students to adjust themselves to a proper understanding of the nature of the human body and its reactions to its changing environment.

5. EARTH SCIENCE. *Three hours credit.*

Units of study organized from concepts of the forces of the physical environment. These units are designed to enable the student to understand and to interpret man's activities in relation to his changing environment.

30. SCIENCE CONCEPTS FOR ELEMENTARY GRADES. *Four hours credit.*

An elementary course in general science subject matter to provide the elementary teacher with a knowledge of the science concepts taught in each grade, preschool through eighth grade.

31. PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS. *Four hours credit. (Three hours lecture, two hours laboratory.)*

Subject matter content from the fields of physical sciences is taught to prepare elementary teachers for their work in elementary science.

32. NATURAL SCIENCE FOR CHILDHOOD EDUCATION. *Three hours credit.*

The course includes biological subject matter of functional value to children. Many sources ordinarily used by teachers for obtaining an understanding of the content will be included.

§102. GENERAL ANTHROPOLOGY. (Credit may be obtained in Social Studies or Science.) *Five hours credit.*

For description of this course, see page 149.

159. GENERAL METEOROLOGY. *Three hours credit.*

Weather elements such as temperature, pressure, wind, moisture, air masses, fronts, and storms. Maps and forecasting. Weather as related to agriculture and aviation.

181. DESCRIPTIVE ASTRONOMY. *Three hours credit.*

A study of the solar system and the place of our Sun in the family of stars. The student learns to recognize and locate the more important stars. Extensive knowledge of science, mathematics and constellations not required.

186. GENERAL GEOLOGY FOR TEACHERS. *Three hours credit.*

A course designed to develop an understanding of the surfaces of the earth and the processes and forces which have been active in changing it, to give the student proficiency and skill in recognizing geological structures and rocks and minerals of the Rocky Mountain area. (No person may receive credit for both Geology 186 and Geology 286.)

208. ELEMENTARY SCIENCE WORKSHOP. (Summer Sessions only.) *Three hours credit.*

Provision is made for students to work on individual problems related to the teaching of elementary science.

209. UNIT COURSES IN SCIENCE. (Summer Session only.) *One to four hours credit.*

Units of work of current interest in various fields of science. The nature of these units will vary from year to year.

210. THE IMPACT OF SCIENCE IN MODERN LIFE. *Four hours credit.*

The course stresses the social effects and changes in modern life through the application of the results of science.

215. PHYSICAL SCIENCE CONCEPTS FOR ELEMENTARY TEACHERS. (Summer Session only.) *Four hours credit.*

The fundamental concepts of physical science are presented to provide a background for the teaching of physical science in the elementary school.

§218. AVIATION AND SPACE FLIGHT FOR TEACHERS. (Credit may be obtained in Science or Education.) *Four hours credit.*

A non-technical course with subject matter dealing in the elementary phases of maps, weather, navigation, theory of flight, vocations in space flight, and social significance of the air age. Methods and materials are for teaching as presented. Units studied selected by personnel of class.

§220. WORLD ETHNOLOGY. (Credit may be obtained in Social Studies or Science.) *Three hours credit.*

For description of this course, see page 149.

286. GENERAL GEOLOGY. *Four hours credit.*

A course designed to develop an understanding of the surface of the earth and the processes and forces which have been active in changing it. Special emphasis is given to the physical and historical geology of the Rocky Mountains. (No person may receive credit for both Geology 186 and Geology 286.)

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. This course is required of all first-quarter graduate students who intend to receive the degree of Master of Arts.

322. INDIVIDUAL STUDIES. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

Qualified students outline a definite problem and spend a minimum of twenty-five clock hours for each quarter hour of college credit. Two typewritten copies of a well-written paper must be filed before credit is given, one with the instructor who directs the study and one with the Director of the Graduate School. Credit may be earned in the fields of Biological Sciences, Physical Sciences, Science Education, or Mathematics.

399. THESIS. *Eight hours credit.*

SCIENCE EDUCATION

§191. METHODS OF TEACHING SCIENCE IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Science or Education.) *Four hours credit.*

The students' purpose for this course is to acquire the knowledge of objectives, materials, and methods which they will need as teachers for preparing learning activities and answering children's questions in a functional elementary science program.

§201. IMPROVEMENT OF SCIENCE INSTRUCTION IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Science or Education.) *Four hours credit.*

A study, evaluation, and comparison of several programs suggested for elementary science by various authorities and groups of science educators. Opportunity is provided for students to plan programs and study the reorganization of elementary science curriculums to achieve the objectives of science educators.

§202. IMPROVEMENT OF SCIENCE INSTRUCTION IN THE SECONDARY SCHOOL. (Credit may be obtained in Science or Education.) *Four hours credit.*

A study, evaluation, and comparison of several programs suggested for secondary school science by various authorities and groups of science educators. Opportunity is provided for students to plan programs and study the reorganization of secondary school science curriculums to achieve the objectives of science educators.

§206. SPECIAL PROBLEMS IN TEACHING SCIENCE. (Credit may be obtained in Science or Education.) *Four hours credit.*

The study, writing and practice of special instructional problems in teaching science in the elementary and secondary schools. The instructional problems include the teaching of problem solving, scientific attitudes, and controversial issues.

§303. SEMINAR IN SCIENCE EDUCATION. (Credit may be obtained in Science or Education.) *Four hours credit.*

Elementary and secondary school science teachers who wish to improve their professional work may elect this course. The problems studied in the course are those that concern the professional science educator in his out-of-class activities such as the writing of articles for current professional magazines.

BIOLOGY

51. HUMAN BIOLOGY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

The purpose of the course is to prepare teachers for giving instruction in biology in the public schools. Both content and methodology will be considered. The subject matter includes the cellular and tissue study of the body systems and their specific functions. Instruction places emphasis on understanding of the body adaptations for reacting and adjusting the whole individual to his environment. Some consideration is given to the modes of inheritance, the probable effects of hereditary traits on the human race, and methods for controlling the transmission of human traits.

§107. PRINCIPLES OF CONSERVATION. (Credit may be obtained in Science or Social Studies.) *Four hours credit.*

This course will be organized upon the concepts of soil conservation, water conservation, forest conservation, wildlife conservation and the conservation of our diminishing mineral resources. Primarily for elementary teachers.

§207. CONSERVATION OF NATURAL RESOURCES. (Credit may be obtained in Science or Social Studies.) *Four hours credit.*

A study of the relation of natural resources to the development of man and his culture. Units of study are organized on soil, water, forests and forest products, range management, wildlife, and mineral resources. The emphasis throughout is on their relation to man.

208. FIELD SCIENCE. *Three hours credit.*

Planned especially for elementary and secondary school teachers. The course deals with the identification of common animals and plants, the relationship of the

plants and animals to their environment, and economic importance. Field trips required.

209. SYMPOSIUM ON CONSERVATION. (Summer Session only.) *Eight hours credit.*

A specifically planned course of lectures on the various phases of our natural resources designed particularly to help teachers prepare teaching materials. The laboratory hours will be used to assist students to see good conservation practices and to aid them in the preparation of teaching units.

231. EVOLUTION. *Two hours credit.*

A study of the factors that have been proposed as causes for gradual development of living organisms and the evidence supporting the theory of evolution. Emphasis is placed on the evolution of man.

232. GENETICS AND EUGENICS. *Two hours credit.*

A study of the fundamental laws of heredity and their application to plants and animals, with special emphasis on the heredity of man and the present trends of the human race.

238. BIOECOLOGY. (Summer Session only.) *Four hours credit.*

Prerequisites, Bot. 22, Bot. 23; Zool. 11, Zool. 12. A study of the relation of plants and animals to their environment. Field trips required.

BOTANY

22. GENERAL BOTANY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

A study of seed plants, the conifers and flowering plants, their structure and functions, economic aspects and classification.

23. GENERAL BOTANY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

A survey of the plant kingdom including the life cycles, habitats, relationships and evolutionary aspects of the great groups of plants, the algae, fungi, mosses, liverworts, ferns, conifers and flowering plants. Economic relationships are also emphasized.

122. GENERAL BACTERIOLOGY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Emphasis is placed on the methods of control of microorganisms together with a study of growth characteristics and requirements. This centers about the important health problems. Laboratory and field work are included.

226. PLANT HISTOLOGY AND BOTANICAL TECHNIQUES. *Four hours credit.*

Prerequisites, Bot. 22, Bot. 23 or equivalent. Study of plant tissues and methods of killing, imbedding, sectioning, staining, and making botanical material into permanent microscopic mounts. The class will meet two hours a day, four days a week.

227. SYSTEMATIC BOTANY. *Five hours credit.*

Prerequisite, Bot. 22 or equivalent. A historical survey of various systems of classification, codes, and nomenclature; use of manuals for the identification of plants in local areas. Field trips required. The class will meet two hours a day, five days a week.

321. PLANT PHYSIOLOGY. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Prerequisites, Bot. 22 or equivalent and Chem. 142 or equivalent. A course dealing with the fundamental principles of absorption of water and minerals, transpiration, photosynthesis, translocation and growth of plants.

328. PLANT ECOLOGY. *Three hours credit. (Two hours lecture, two hours laboratory.)*

Prerequisites, Bot. 22, Bot. 23. A course planned to give the student an understanding of plant successions resulting from the interrelation and interaction of plant life and the factors of the environment. Field trips required.

330. BOTANICAL SEMINAR. *One hour credit.*

Assigned reports on current botanical topics.

CHEMISTRY**40a. PRINCIPLES OF CHEMISTRY.** *Five hours credit. (Four hours lecture, two hours laboratory.)*

This course deals with the principles of chemistry and their relationships to daily experience. It is designed for science majors and minors as well as pre-medical, pre-dental, pre-veterinary, pre-engineering, and home economics students.

40b. GENERAL INORGANIC CHEMISTRY. *Five hours credit. (Four hours lecture, two hours laboratory.)*

Prerequisite, Chem. 40a. This course includes a discussion of the chemistry and uses of the most important metals and non-metals and their inorganic compounds.

40c. INTRODUCTORY ORGANIC CHEMISTRY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisite, Chem. 40b. This course provides an elementary introduction to organic chemistry, including some of the many applications in such fields as food, drug, plastic, dye, and vitamin chemistry.

142. ORGANIC CHEMISTRY. *Five hours credit. (Four hours lecture, two hours laboratory.)*

Prerequisite, Chem. 40c. The chemistry of the carbon compounds of the aliphatic and aromatic series is discussed. Application to the fields of nutrition and industry is stressed.

144. QUALITATIVE ANALYSIS. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Prerequisites, Chem. 40b, Math. 76, or Math. 78b or equivalent. In this course the student is introduced to analytical theory and the methods of detection of common ions. The laboratory work illustrates the class discussion.

145. QUANTITATIVE ANALYSIS. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Prerequisite, Chem. 144. This course provides a discussion of quantitative procedures as well as continued emphasis on analytical theory. The methods of volumetric and gravimetric analysis are applied to common substances in the laboratory.

148. FOOD ANALYSIS. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisite, Chem. 40c. This course deals with some of the techniques of qualitative and quantitative analysis of foods for certain inorganic and organic constituents.

201. PROBLEMS IN TEACHING CHEMISTRY. *Four hours credit.*

Prerequisite, permission of instructor. This course is designed to deal with special problems in the teaching of chemistry. This includes elementary concepts, laboratory and stockroom problems, and demonstrations.

241. LABORATORY IN ORGANIC CHEMISTRY. *Four hours credit.*

This course is purely a laboratory course designed to accompany Chem. 242 and Chem. 243. It may be taken concurrently with Chem. 242 or after Chem. 242.

242. ORGANIC CHEMISTRY. *Four hours credit.*

This is a course for students with no previous background in organic chemistry. Some of the fundamental types of organic compounds are treated with regard to theory and to application.

243. ADVANCED ORGANIC CHEMISTRY. *Four hours credit.*

Prerequisite, Chem. 142. This course is a continuation of Chem. 142. It reviews comprehensively both the aliphatic and aromatic series of organic compounds.

244. LABORATORY IN ADVANCED ORGANIC CHEMISTRY. *One to three hours credit by arrangement. (Two to six hours laboratory.)*

Prerequisite or corequisite, Chem. 243. Organic preparations and qualitative organic analysis constitute the laboratory work.

246. ADVANCED QUANTITATIVE ANALYSIS. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Prerequisite, Chem. 145. Special attention is given to the analysis of complex mixtures, and the use of certain analytical instruments.

247. BIOCHEMISTRY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisite, Chem. 40c. An introduction to the chemistry of foods, nutrition, and body processes is given.

341. INTRODUCTORY PHYSICAL CHEMISTRY. *Four hours credit.*

Prerequisites, Chem. 142, Chem. 145, Math. 175b, Phys. 63. This course is an advanced study of the theoretical principles upon which chemistry is based. The gaseous, liquid and solid states, thermodynamics, and colloids are considered.

342. LABORATORY IN INTRODUCTORY PHYSICAL CHEMISTRY. *Two hours credit. (Four hours laboratory.)*

Prerequisites, Chem. 142, Chem. 145, Math. 175b, Phys. 63. In this laboratory course, the validity of certain physical laws is demonstrated.

343. INTERMEDIATE PHYSICAL CHEMISTRY. *Four hours credit.*

Prerequisites, Chem. 341, Chem. 342. This course is a continuation of Chem. 341 and deals with electrochemistry, chemical thermodynamics, and atomic and molecular structure.

344. LABORATORY IN INTERMEDIATE PHYSICAL CHEMISTRY. *Two hours credit. (Four hours laboratory.)*

Prerequisites, Chem. 341, Chem. 342. Laboratory work in electrochemistry and chemical thermodynamics is undertaken in this course.

345. ORGANIC QUALITATIVE ANALYSIS. *Three hours credit.*

Prerequisites, Chem. 243, Chem. 244 or equivalent. This course is an advanced laboratory course in organic chemistry. The identification of organic compounds constitutes the laboratory work. No classwork is required, but a paper on some phase of organic chemistry is required. This course may be taken any quarter on consent of instructor.

346. SEMINAR IN CHEMISTRY. (Summer Session only.) *One hour credit.*

Prerequisite, consent of instructor. This course gives the graduate student an opportunity to report on some topic of interest treated in recent literature, as well as to profit by the reports of others.

PHYSICS**61. GENERAL PHYSICS—MECHANICS AND HEAT.** *Five hours credit. (Four hours lecture, two hours laboratory.)*

The first quarter of the general course in physics treats the laws, principles, and generalizations of mechanics and heat.

62. GENERAL PHYSICS—ELECTRICITY. *Five hours credit. (Four hours lecture, two hours laboratory.)*

Prerequisite, Phys. 61. The second quarter of the general course in physics treats the principles, laws, and generalizations in electricity.

63. GENERAL PHYSICS—SOUND, LIGHT, AND ATOMIC PHYSICS. *Five hours credit. (Four hours lecture, two hours laboratory.)*

Prerequisite, Phys. 62. The third quarter of the general course in physics treats the laws, principles, and generalizations concerning sound, light, and atomic physics.

68. ELEMENTARY ELECTRICITY. *Five hours credit. (Four hours lecture, two hours laboratory.)*

A course designed for the student who needs a fundamental background in the general laws, principles, and generalizations of electricity in everyday life.

165. HOUSEHOLD PHYSICS. *Four hours credit. (Three hours lecture, two hours laboratory.)*

A course designed to meet the needs of majors in Home Economics. All laws, principles, and generalizations of physics are related directly to their application in the home.

166. ELECTRONICS. *Five hours credit. (Four hours lecture, two hours laboratory.)*

Prerequisite, Phys. 63. This is a general course in electronics and electricity as applied to the reception and transmission of radio. Stress is placed upon the application to radio in everyday living.

167. ELEMENTARY PHOTOGRAPHY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

An elementary course designed to meet the needs of the amateur photographer and also to furnish an adequate background for more advanced work on the principles of photography.

261. BIOPHYSICS. *Four hours credit.*

Prerequisites, Bot. 22, Bot. 23; Chem. 40c; Phys. 63; Zool. 12. Biophysics is a course designed to relate the principles of mechanics, heat, electricity, radio, light, sound, and atomic physics to both plant and animal life. Stress is placed upon the recent developments in physics as applied to living things.

264a. ADVANCED MECHANICS AND HEAT. *Four hours credit.*

Prerequisites, Math. 175b, Phys. 63. This first quarter of advanced physics deals with the development of the concepts of mechanics and heat and the mathematical interpretation of the laws and principles.

264b. ADVANCED ELECTRICITY. *Four hours credit.*

Prerequisites, Math. 175b, Phys. 63. This course deals with the fundamental development of the important concepts in A.C. and D.C. electricity. It furnishes the necessary background for electrical engineering.

264c. ADVANCED SOUND, LIGHT, AND WAVE MOTION. *Four hours credit.*

Prerequisites, Math. 175b, Phys. 63. This course deals with the fundamental principles and laws of wave motion, including their application to sound and light, with the emphasis placed upon the modern atomic concepts.

265. EXPERIMENTAL PHYSICAL SCIENCE FOR HIGH SCHOOL SCIENCE TEACHERS. *Four hours credit.*

Prerequisite, a knowledge of physics and chemistry. This course gives the junior and senior high school teacher, the general science teacher, and the prospective teacher in these subjects an opportunity to work with physical science equipment and organize the laboratory work for learning activities.

267. ADVANCED PHOTOGRAPHY. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisites, Chem. 40c; Phys. 63, Phys. 167. An advanced course in the principles of photography.

366. SEMINAR IN PHYSICS. (Summer Session only.) *One hour credit.*

This course is designed to permit the student to increase the breadth of his knowledge in physics, to enable him to become familiar with the research and literature of physics and to prepare and present papers on the research in physics, either his own problem or the research of others.

368. ATOMIC PHYSICS. *Four hours credit.*

Prerequisites, Chem. 40c; Math. 175c; Phys. 63. This course is designed as an advanced course in modern atomic theory, nuclear structure, and their relationship to fundamental physical and chemical theory.

ZOOLOGY

11. GENERAL ZOOLOGY—INVERTEBRATE. *Five hours credit. (Three hours lecture, four hours laboratory.)*

This is the beginning course in zoology. The principles of animal biology will be emphasized. These principles will be studied in the laboratory through the use of selected types.

12. GENERAL ZOOLOGY—VERTEBRATE. *Five hours credit. (Three hours lecture, four hours laboratory.)*

Prerequisite, Zool. 11 or equivalent. A continuation course in general zoology. A study of the anatomy and physiology of the vertebrate animals. Selected types will be used for laboratory study.

114. BIRD STUDY. *Three hours credit.*

Designed primarily for elementary majors. Classroom, museum, and field studies on the habits, habitats, life histories, migration activities, and economic importance of birds. Students will have an opportunity to learn to identify birds in the field. (Field trips arranged.)

116. PHYSIOLOGY OF NARCOTICS AND STIMULANTS. *Two hours credit.*

A study of the narcotics and stimulants used by man. The physiological effects on the human body are evaluated in terms of the individual's health.

117. HUMAN PHYSIOLOGY. *Three hours credit. (Two hours lecture, two hours laboratory.)*

Prerequisite, Zool. 12 or equivalent. A course in the study of the functions of the human body designed to help the student to understand normal functions and give him the knowledge with which he may establish good health practices for himself.

211. COMPARATIVE MORPHOLOGY OF THE VERTEBRATES. *Five hours credit. (Two hours lecture, six hours laboratory.)*

Prerequisite, Zool. 12 or equivalent. A detailed study of the systems of organs of the vertebrates. The student is expected to make careful dissections of selected types.

215. VERTEBRATE EMBRYOLOGY. *Four hours credit. (Two hours lecture, four hours laboratory.)*

Prerequisite, Zool. 12 or equivalent. A study of the embryology of the bird and the mammal compared to the embryology of the human body. Designed to provide an understanding of the early development of the human body.

218. ANIMAL HISTOLOGY AND MICROSCOPIC TECHNIQUES. *Four hours credit.*

Prerequisite, Zool. 12 or equivalent. The skills of killing, staining, and preparing animal tissue for study are combined with the study of the types of tissues in the animal body. This class will meet two hours a day, four days a week.

316. VERTEBRATE ORGANOGENY. *Four hours credit. (Two hours lecture, four hours laboratory.)*

A continuation of Zool. 215. A study of the origin and development of the organs of the body of the vertebrate animal with special reference to the development of the body of man.

317. ENDOCRINOLOGY. *Three hours credit.*

Prerequisite, Zool. 117 or equivalent. A detailed study of each of the hormones known to be produced in the human body, with respect to its normal effect on the physiology, its effect when overproduced and when there is underproduction.

MATHEMATICS MAJOR**Bachelor of Arts Degree (With Teaching Certificate)**

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed on page 141.

3. One minor of 24 quarter hours. It is recommended that this minor be in either Biological or Physical Science.

4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

MATHEMATICS MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

(Sequence I—two years of high school mathematics recommended)

Course Number	Course Title	Hours	Credit
Math. 75a	College Algebra	5	5
Math. 75b	College Algebra	2	2
Math. 76	Plane Trigonometry	3	3
Math. 77	Analytic Geometry I	5	5
Math. 175a	Calculus	4	4
Math. 175b	Calculus	4	4
Math. 175c	Calculus	4	4
Math. (electives)*		21	21
			48

(Sequence II—three years of high school mathematics recommended)

Course Number	Course Title	Hours	Credit
Math. 78a	College Mathematics	4	4
Math. 78b	College Mathematics	4	4
Math. 78c	College Mathematics	4	4
Math. 175a	Calculus	4	4
Math. 175b	Calculus	4	4
Math. 175c	Calculus	4	4
Math. (electives)*		24	24
			48

*Electives may be selected from:

Course Number	Course Title	Hours	Credit
Astron. 181	Descriptive Astronomy	3	3
Math. 79	Solid Geometry	3	3
Math. 170	Mathematical Instruments and Surveying	4	4
Math. 177	Analytic Geometry II	3	3
Math. 215	Advanced Algebra	4	4
Math. 273	Modern Euclidian Geometry	5	5
Math. 274	History of Mathematics	3	3
Math. 275	Elementary Statistics	4	4
Math. 276	Advanced Calculus	3	3
Math. 277	The Theory of Equations	5	5
Math. 278	Differential Equations	5	5

Mathematics Minor

(Sequence I—two years of high school mathematics recommended)

Course Number	Course Title	Hours	Credit
Math. 75a	College Algebra	5	5
Math. 75b	College Algebra	2	2
Math. 76	Plane Trigonometry	3	3
Math. 77	Analytic Geometry I	5	5
Math. (electives)*		9	9
			24

(Sequence II—three years of high school mathematics recommended)

Course Number	Course Title	Hours	Credit
Math. 78a	College Mathematics	- - - -	4
Math. 78b	College Mathematics	- - - -	4
Math. 78c	College Mathematics	- - - -	4
Math. (electives)*	- - - -	- - - -	12
			24

*Electives may be selected from:

Course Number	Course Title	Hours	Credit
Math. 79	Solid Geometry	- - - -	3
Math. 175a	Calculus	- - - -	4
Math. 175b	Calculus	- - - -	4
Math. 175c	Calculus	- - - -	4
Math. 177	Analytic Geometry II	- - - -	3
Math. 215	Advanced Algebra	- - - -	4
Math. 273	Modern Euclidian Geometry	- - - -	5
Math. 274	History of Mathematics	- - - -	3
Math. 275	Elementary Statistics	- - - -	4

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

MATHEMATICS MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 24; (2) At least 48 quarter hours in Mathematics in the preceding section under Bachelor of Arts degree (with teaching certificate); (3) One minor of 24 quarter hours preferably in either Biological or Physical Science; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

MATHEMATICS

70. BASIC MATHEMATICS FOR TEACHERS I. *Four hours credit.*

Designed to give the student with a limited background in mathematics a course which will be of personal and practical use to him. Also designed to give the prospective teacher of elementary arithmetic a course in content material. This course cannot be applied on a major or minor in mathematics.

71. BASIC MATHEMATICS FOR TEACHERS II. *Two hours credit.*

Prerequisite, Math. 70 or consent of instructor. A continuation of Math. 70 with emphasis being placed on more advanced topics of elementary arithmetic such as variation, proportion, mixture problems, and uses of percentage. This course cannot be applied on a major or minor in mathematics.

72. BASIC MATHEMATICS FOR TEACHERS III. *Three hours credit.*

Prerequisite, Math. 71 or consent of instructor. A continuation of Math. 71 with emphasis being placed on the following topics: simple algebraic manipulations, informal geometry, elementary statistics, compound interest, installment

buying, and other practical problems. This course cannot be applied on a major or minor in mathematics.

75a. COLLEGE ALGEBRA. *Five hours credit.*

Prerequisite, two years of high school mathematics or consent of instructor. The development and extension of concepts and skills beyond those studied in secondary school, and the practice of clear and independent thinking, with emphasis upon the understandings which lie back of algebraic processes.

75b. COLLEGE ALGEBRA. *Two hours credit.*

Prerequisite, Math. 75a or consent of instructor. A continuation of Math. 75a.

76. PLANE TRIGONOMETRY. *Three hours credit.*

Prerequisite, Math. 75a or consent of instructor. A course which develops the trigonometric functions and their application, both theoretical and practical, in the solution of the triangle. Special emphasis is put upon the logarithms and their use in computation in the solution of the triangle and other problems.

77. ANALYTIC GEOMETRY I. *Five hours credit.*

Prerequisites, Math. 75b, Math. 76 or equivalent. Explains and amplifies algebraic methods in the solving of geometric problems, thus acquainting the student with a powerful method of amplifying algebra and geometry. Especially valuable as a margin of information for teachers of both algebra and geometry.

78a. COLLEGE MATHEMATICS. *Four hours credit.*

Prerequisite, three years high school mathematics or consent of instructor. The first of three sequence courses designed to correlate algebra, trigonometry, analytic geometry, and elementary calculus. Specific areas covered are: graphs and functions, simple differentiation, simple integration, first and second degree functions.

78b. COLLEGE MATHEMATICS. *Four hours credit.*

Prerequisite, Math. 78a or consent of instructor. A continuation of Math. 78a. This course covers the following areas: rational integral functions, rational fractions, irrational functions, calculation by use of logarithms, and trigonometry.

78c. COLLEGE MATHEMATICS. *Four hours credit.*

Prerequisite, Math. 78b or consent of instructor. A continuation of Math. 78b. This course covers the following areas: simultaneous equations and determinants; analytic geometry of the straight line, circle, ellipse, parabola, and hyperbola; polar coordinates, tangents, normals, and transformations of coordinates.

79. SOLID GEOMETRY. *Three hours credit.*

Prerequisite, two years of high school mathematics or consent of instructor. A course designed to give the student of mathematics a perspective of the three-dimensional world in which he lives. Specific problems studied are: measurement of linear distances and angles in three-dimensional space; surface areas and volumes of solid figures, including the sphere.

170. MATHEMATICAL INSTRUMENTS AND SURVEYING. *Four hours credit.*

Prerequisites, Math. 78b, or Math. 75b, Math. 76 or equivalent. A course designed to show the teacher of mathematics some of the techniques and instruments used in many of the practical problems of measurement. Instruments studied are the slide rule, the sextant, and various instruments used in land surveying. The class will meet two hours a day, two days a week.

175a. CALCULUS (Differential.) *Four hours credit.*

Prerequisite, Math. 78c or Math. 77 or equivalent. This course presents the fundamental concepts of the differential calculus with the various applications of the derivative in solving problems in the scientific field. Successive differentiation and differentials are covered.

175b. CALCULUS (Integral.) *Four hours credit.*

Prerequisite, Math. 175a or equivalent. This course introduces the process of integration and the definite integral with its application to problems in science. Differentiation and integration of transcendental functions are also developed.

175c. CALCULUS (Differential and Integral.) *Four hours credit.*

Prerequisite, Math. 175b or equivalent. A continuation of those topics of differentiation and integration which are not adequately treated in Math. 175a and Math. 175b. The subject matter deals with differentiation of polar coordinates,

radius and circle of curvature, indeterminate forms, series and expansion of functions.

177. ANALYTIC GEOMETRY II. *Three hours credit.*

Prerequisite, Math. 77 or equivalent. A continuation of Math. 77, emphasizing such topics as transformation of coordinates, tangents, polar coordinates, parametric equations, and cartesian coordinates in space.

209a,b,c. MATHEMATICS TEACHERS' WORKSHOP. (Summer Sessions only.) *Three hours credit each.*

Provision is made for students to work on individual problems related to the teaching of mathematics. A student may take no more than 6 quarter hours for credit.

215. ADVANCED ALGEBRA. *Four hours credit.*

Prerequisite, college algebra. A course designed to extend basic college algebra to include topics not normally covered in the first-year course.

272. MATHEMATICS OF FINANCE. (Summer Session only.) *Four hours credit.*

Prerequisite, intermediate algebra or consent of instructor. This course offers the student an opportunity to apply his elementary knowledge of arithmetic and algebra to problems of business. Such topics as simple and compound interest, annuities, installment buying, and life insurance are considered.

273. MODERN EUCLIDIAN GEOMETRY. *Five hours credit.*

Prerequisite, high school plane geometry or consent of instructor. An introduction to the ideas and methods of modern geometry; an extension of Euclidian geometry to college level theorems not included in high school geometry.

274. HISTORY OF MATHEMATICS. *Three hours credit.*

A general view of the development and contributions of mathematics. A more detailed view of the development of arithmetic, algebra, geometry, and evolution of symbolism.

§275. ELEMENTARY STATISTICS. (Credit may be obtained in Science or Education.) *Four hours credit.*

An introduction to the meaning and practical use of measures of central tendency, variability, reliability, and relationship. Problems for application are taken principally from education and psychology.

276. ADVANCED CALCULUS. *Three hours credit.*

Prerequisite, Math. 175c or equivalent. A continuation of differential and integral calculus with emphasis upon integration involving trigonometric differentials, trigonometric substitution, integration by various devices and tables; areas, volumes, and centroids of solids; series and expansion of functions.

277. THE THEORY OF EQUATIONS. *Five hours credit.*

Prerequisite, Math. 175a or equivalent. This course is introduced with the arithmetic of complex numbers; deals with functional relationships, graphic representation and solution of functions, determinants, and symmetric functions.

278. DIFFERENTIAL EQUATIONS. *Five hours credit.*

Prerequisite, Math. 175c or equivalent. A study of the theory and solution of differential equations. Ordinary and partial equations are treated along with numerous applications.

§372. CURRICULUM IN SECONDARY SCHOOL MATHEMATICS. (Credit may be obtained in Science or Education.) *Three hours credit.*

Prerequisite, 24 quarter hours in college mathematics. A study of modern developments in curriculum offerings in secondary school mathematics, with special emphasis on mathematics best suited to the needs of non-college-bound students.

§373. PROBLEMS IN THE TEACHING OF SECONDARY MATHEMATICS. (Credit may be obtained in Science or Education.) *Three hours credit.*

Prerequisite, 24 quarter hours in college mathematics. Special emphasis in this course is placed on such problems of teaching high school mathematics as: individual differences in ability, interests and needs, college preparatory courses and their organization for teaching.

§374. SEMINAR IN PROBLEMS OF TEACHING SECONDARY MATHEMATICS. (Credit may be obtained in Science or Education.) *Three hours credit.*

Prerequisite, experience in teaching mathematics. Graduate students in this course will use their own backgrounds of experience, along with reading and discussion in class, to bring before the group special problems, together with proposed solutions.

§375. ADVANCED STATISTICS. (Credit may be obtained in Science or Education.) *Four hours credit.*

Prerequisite, Math. 275 or equivalent. Sampling theory, tests of significance, chi-square function, correlation methods, introduction to analysis of variance and experimental design in education research.

§390. DESIGN AND ANALYSIS OF EXPERIMENTS IN EDUCATION. (Credit may be obtained in Science or Education.) (Summer Session only.) *Four hours credit.*

Prerequisite, one course in statistics or consent of instructor. Deals with the design and statistical analysis of experiments in the fields of education and psychology. Analysis of variance and co-variance forms a prominent part of the course.

Division of the Social Studies

The Division of the Social Studies includes the fields of: (1) General Social Studies, (2) The Teaching of the Social Studies and (3) Specialized Social Studies: Anthropology, Economics, Geography, History, Political Science and Sociology.

The academic programs are:

1. A major in the Social Studies leading to the Bachelor of Arts degree with teaching certificate.
2. A major in History and Political Science leading to the Bachelor of Arts degree with teaching certificate.
3. A minor in Social Studies.
4. A graduate major in History.
5. A graduate major in the Social Studies.
6. A program leading to the Bachelor of Arts degree (liberal arts) in the Social Studies. Also a liberal arts minor is available in any area of the Social Studies.

SOCIAL STUDIES MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.
2. The 48 quarter hours in the major listed on page 146.
3. One minor of 24 quarter hours outside the Division of the Social Studies.

4. 28 to 35 quarter hours of free electives to complete 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

SOCIAL STUDIES MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
Anth. 102	General Anthropology	5	5
Econ. 100	Principles of Economics	5	5
Geog. 10	World Geography	5	5
Hist. 30a,b,c	World History	12	12
Hist. 70a,b	United States History	8	8
Pol. Sci. 170	National Government of the United States	5	5
Soc. 101	Principles of Sociology	5	5
S.S. 202	American Society Today	3	3
		<hr/>	48

(12 to 24 quarter hours in any one subject matter field recommended as additional electives. Also note: 8 quarter hours is the minimum requirement for teaching any subject matter field within the Social Studies.)

HISTORY AND POLITICAL SCIENCE MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

The following is the required program:

1. 73 to 80 academic quarter hours in the Common Courses listed on page 23, plus 6 quarter hours of physical education activity courses.

2. The 48 quarter hours in the major listed below.

3. One minor of 24 quarter hours outside the Division of the Social Studies.

4. 28 to 35 quarter hours of free electives to complete the 180 quarter hours of academic credit required for graduation.

Programs must be planned with the student's adviser.

HISTORY AND POLITICAL SCIENCE MAJOR

Bachelor of Arts Degree (With Teaching Certificate)

Required courses in the major:

Course Number	Course Title	Hours	Credit
Hist. 30a,b,c	World History	12	12
Hist. 70a,b	United States History	8	8
Pol. Sci. 170	National Government of the United States	5	5
Pol. Sci. 171	State and Local Government	4	4
Hist. and Pol. Sci.	Senior college electives in History and Political Science	10	10
Other Social Studies	Electives selected from Economics, Geography, and Sociology	6	6
S.S. 202	American Society Today	3	3
		<hr/>	48

(12 to 24 quarter hours in Economics, Geography or Sociology beyond minimum requirements is recommended. Also note: 8 quarter hours is the minimum requirement for teaching any subject matter field within the Social Studies.)

Social Studies Minor

Course Number	Course Title	Hours	Credit
Hist. 30a,b			
or			
Hist. 30b,c	World History	8	
Hist. 70a,b	United States History	8	
8 quarter hours from any one of the following:			
Anth. 102 or Soc. 101 and 3 hours Sociology electives or			
Econ. 100 and 3 hours Economics electives or			
Geog. 10 and 3 hours Geography electives or			
Pol. Sci. 170 and 3 hours Political Science electives			
		8	
			For a total of 24

Recommended Electives for Elementary School Teachers:

Course Number	Course Title	Hours	Credit
Anth. 102	General Anthropology	5	
Econ. 100	Principles of Economics	5	
Econ. 102	Contemporary Economic Problems	3	
Geog. 10	World Geography	5	
Hist. 180	Colorado History	2	
Hist. 246	Geographic Influences in United States History	2	
Hist. 252	History of the West	5	
Pol. Sci. 170	National Government of the United States	5	
Pol. Sci. 171	State and Local Government	4	
Soc. 204	Marriage and the Family	3	
Soc. 206	Crime and Delinquency	2	
S.S. 202	American Society Today	3	

*Electives should be selected with the approval of the Adviser to Elementary Majors.

SOCIAL STUDIES MAJOR

Bachelor of Arts Degree (Liberal Arts) • The following program is required: (1) Common Courses listed on page 24; (2) At least 48 quarter hours apportioned among Economics, Geography, History, Political Science and Sociology, with from 12 to 24 quarter hours in one area of specialization; (3) One minor of 24 quarter hours outside the Division of the Social Studies; (4) Electives to complete requirements for graduation. Programs must be planned with the student's adviser.

A minor of 24 quarter hours may be arranged in Economics, Geography, History, Political Science, or Sociology. A general Social Studies minor may also be arranged.

HISTORY AND POLITICAL SCIENCE MAJOR

Bachelor of Arts Degree (Liberal Arts) • The program is the same as for the Social Studies major except that the 48 quarter hours will be in History and Political Science.

Graduate Study • Detailed information about the graduate program may be obtained from the graduate section of this yearbook. Course work will be outlined by the student's major professor.

Description of Courses • Course offerings for the Fall, Winter, and Spring quarters will carry the credit designated in this yearbook. The same course offerings scheduled in the Summer Sessions may vary in the amount of credit offered.

Courses marked with a section mark (§) are listed in more than one division. The divisions in which credit may be obtained are given in the title of the course. The student is responsible for indicating the division in which the credit is to apply.

GENERAL SOCIAL STUDIES

81. THE INDIVIDUAL AND HIS SOCIAL RELATIONS. *Three hours credit.*

The integration of subject matter offerings in general education; the nature of social science; scientific method; analysis of social behavior of the individual based upon data from all fields of the Social Studies; contemporary education and intergroup relations.

82. AMERICAN LIFE AND INSTITUTIONS. *Three hours credit.*

Major problems in the life of the citizens of the United States in the contemporary period; problems connected with the maintenance of the family, relationships between man and government, man's organization for production, the role of labor in an industrial society, the position of agriculture.

83. CONTEMPORARY WORLD CULTURES. *Three hours credit.*

Investigates the geographic framework of contemporary world cultures; reviews briefly the interdependent and interrelated nature of world cultures, and surveys the problem of the maintenance of world peace.

120. INDIVIDUAL STUDIES. *Three hours credit for one problem; a maximum of six hours credit is permitted.*

Individual undergraduate study under the guidance of a staff member in any area of the division. Field or area of credit to be designated. Available only on consent of instructor concerned. Twenty-five clock hours of work for each credit.

200. SOCIAL PHILOSOPHY. *Three hours credit.*

An attempt to arrive at ethical solutions to social issues based on a philosophy of democracy with the aid of factual information from the social sciences. Included are the philosophies and economic, social and political influences related to world understanding.

202. AMERICAN SOCIETY TODAY. *Three hours credit.*

An advanced study of American society as a total social system; its geography, resources, population and technology; its basic social institutions, its group relations; diversity and change in American life and American values.

300. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*

A study of the literature and techniques of research in the area of the graduate major. The course is required of all first-quarter graduate students who intend to receive the degree of Master of Arts.

322. INDIVIDUAL STUDIES. *One to four hours credit for one problem; a maximum of eight hours credit is permitted.*

Individual graduate study under the guidance of a staff member in any area of the division. Field or area of credit to be designated. Available only on consent of instructor concerned. Paper required. Twenty-five clock hours of work for each credit.

399. THESIS. *Eight hours credit.*

THE TEACHING OF THE SOCIAL STUDIES

§213. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (Credit may be obtained in Education or Social Studies.) *Three hours credit.*

For description of this course, see page 77.

220. MATERIALS AND CONTENT IN SOCIAL STUDIES. *Three hours credit.*

Prerequisite, Ed. 150c in major area. This course deals with practical organization and use of materials in secondary schools. Recommended for all students majoring or minoring in Social Studies.

§305. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE SECONDARY SCHOOL. (Credit may be obtained in Social Studies or Education.) *Three hours credit.*

Consideration of recent trends in the organization and teaching of Social Studies courses in the secondary school. Teachers will be given an opportunity to evaluate new courses of study, new materials and new equipment developed in an attempt to improve teaching procedures.

307. HISTORY AND PHILOSOPHY OF THE SOCIAL STUDIES. *Three hours credit.*

Develops a synthesis of past and present theory and practice in the Social Studies. It will discuss a frame of reference and objectives as well as content materials and history of the Social Studies curriculum.

§313. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (Summer Session only.) (Credit may be obtained in Education or Social Studies.) *Four hours credit.*

For description of this course, see page 83.

§313a. SPECIAL PROBLEMS IN THE SUPERVISION OF SOCIAL STUDIES. (Credit may be obtained in Education or Social Studies.) *Three hours credit.*

For description of this course, see page 83.

SPECIALIZED SOCIAL STUDIES

ANTHROPOLOGY

§102. GENERAL ANTHROPOLOGY. (Credit may be obtained in Social Studies or Science.) *Five hours credit.*

Organic man; races, ancient and modern, cultural dynamics; ancient men and archaeology; culture areas of the world and ethnology; social anthropology. Emphasis upon social anthropology.

§220. WORLD ETHNOLOGY. (Credit may be obtained in Social Studies or Science.) *Three hours credit.*

Cultures different from our own in Asia, Africa, the Americas, Australia, and the adjacent areas. Primitive cultures analyzed.

221. INDIANS OF THE AMERICAS. *Three hours credit.*

Primitive cultures on the American continents. Emphasis on the Indian cultures of North America.

222. RACE RELATIONS. *Three hours credit.*

History, distribution, present status and cultural and genetic differences among the ethnic groups in the United States. Special consideration given to the contributions made by the various groups to our present American culture.

ECONOMICS

77. PERSONAL INVESTMENTS. *Three hours credit.*

An analysis of personal investment programs with emphasis on investment in the corporate securities of common stock, preferred stock and bonds. Attention is also given to public securities and briefly to life insurance, savings institutions, and real estate investments.

100. PRINCIPLES OF ECONOMICS. *Five hours credit.*

An introduction to the analysis of economic activity in the areas of income determinants, business organization, national output and income, employment, production, individual prices, and the allocation of resources, income distribution, public policy relations to business, agriculture, labor, public finance, economic stabilization programs, and international economics.

102. CONTEMPORARY ECONOMIC PROBLEMS. *Three hours credit.*

Prerequisite, Econ. 100. An examination of crucial economic problems facing modern society with particular attention being paid to unemployment, agricultural maladjustment, taxation policies, obstacles to foreign trade, wastes in production and consumption, economic inequality, and market instability.

107. FINANCIAL INSTITUTIONS. *Five hours credit.*

A survey of the financial institutions operating in our economy including consumer credit, investment banking, commercial banking, the Federal Reserve System, and federal fiscal problems.

200. LABOR-MANAGEMENT RELATIONS. *Five hours credit.*

Prerequisite, one course in Economics. A study of the origins and an examination of the impact of trade unionism on modern industrial organization. The course includes an inquiry into the techniques of collective bargaining, an analysis of labor-management-public relations in contemporary society, and a diagnosis of the interests and human motivations of labor groups.

201. HUMAN PROBLEMS IN ADMINISTRATION. (Summer Sessions only.) *Three hours credit.*

A course designed to acquaint school administrators with the fabric of social relations through which their orders are executed. Deals with factors or friendships and enmities in personal alignments, explores group attachments and clique formations, examines formal and informal status systems, diagnoses situations of both general dissatisfaction and high morale.

204. INTERNATIONAL ECONOMICS. *Five hours credit.*

A survey of the economic institutions of international significance in the contemporary world. Payments among nations, trade barriers, international commercial policies and international investment policies are the specific institutions dealt with in their practical as well as theoretical aspects.

207. COMPARATIVE ECONOMIC SYSTEMS. *Five hours credit.*

Prerequisite, Econ. 100 or equivalent. A comparison of the important economic systems of the world: modified capitalism, socialism, fascism, and communism. Emphasis is not on historical development, but on a critical analysis of the ability of these various systems to perform the vital economic functions essential to any economic system.

209. ECONOMIC HISTORY OF THE UNITED STATES. *Three hours credit.*

A study of the historical changes in American economic institutions, groups, problems and practices including developments in industry, commerce, agriculture, labor, finance and government intervention with emphasis on the post-Civil War period.

277. GOVERNMENT AND BUSINESS. *Three hours credit.*

Prerequisites, Pol. Sci. 170, Econ. 100. A comprehensive analysis of the role of government in present-day American economy. After examining the limits of state intervention, the course relates public policy to the challenge of recurring depressions, labor, agriculture, industry, and public utilities.

§341. PUBLIC FINANCE. (Credit may be obtained in Social Studies or Education.) (Summer Session only.) *Four hours credit.*

Prerequisite, one course of "100" level in Economics or its equivalent. A study of the methods employed by local, state, and federal governments to finance their activities. Particular attention is paid to the scope and effects of various types of fiscal policy.

GEOGRAPHY**10. WORLD GEOGRAPHY.** *Five hours credit.*

Tools of world geography. World survey of the interrelationships of man and his culture to the climates, animal life, minerals, soils and surface features of the earth.

48. UNITED STATES. *Four hours credit.*

A study of regions and their interdependence. Land use, social and economic problems emphasized.

§107. PRINCIPLES OF CONSERVATION. (Credit may be obtained in Science or Social Studies.) *Four hours credit.*

For description of this course, see page 135.

112. ECONOMIC GEOGRAPHY. *Three hours credit.*

Geographic and economic conditions affecting the products, industries, commerce and resources of the world. Special emphasis on the United States.

143. EUROPE. *Three hours credit.*

Physical and cultural patterns. The nations of Europe, their regions, cultures, social and economic organizations with resulting conflicts.

147. LATIN AMERICA. *Three hours credit.*

Mexico and the countries of South America: regions, cultures, economics, social and political conditions.

203. WORLD RESOURCES AND INDUSTRIES. *Five hours credit.*

A functional appraisal of the resources and industries of the world including a consideration of their geographical, historical, sociological, technological, and political aspects.

§207. CONSERVATION OF NATURAL RESOURCES. (Credit may be obtained in Science or Social Studies.) *Four hours credit.*

For description of this course, see page 135.

226. AFRICA. *Five hours credit.*

Relationships between the physical and cultural patterns. Land use, resource development, social and political problems.

244. ASIA. *Five hours credit.*

The countries of Asia in terms of their physiography, climates, regions, cultures, cultural landscapes, social organizations and economic activities.

255. GEOGRAPHY OF COLORADO. *Three hours credit.*

An intensive study of the physical and human resources of the State of Colorado and the problems of their utilization.

WORLD HISTORY**30a,b,c. WORLD HISTORY.** *Four hours credit each.*

World history suitable for the preparation of teachers in elementary and secondary schools. The course will include a brief analysis of the Far East, Africa, and the Western Hemisphere as well as a more detailed coverage of European history. Hist. 30b prerequisite to 30c.

221. THE GREAT WORLD ISSUES. (Summer Sessions only.) *Three hours credit.*

This course contemplates a thorough inquiry into one or more of the great world issues of the day, approaching the problem or problems from the historical, economic, geographic, cultural, political, and diplomatic viewpoints.

255. CONTEMPORARY WORLD HISTORY. *Five hours credit.*

An advanced study of world developments in recent times.

260. ANCIENT HISTORY. *Five hours credit.*

The life and institutions of the Ancient Near East, Greece, and Rome: cultural development, living conditions, and recent archaeological discoveries.

261. MEDIEVAL LIFE AND INSTITUTIONS. *Three hours credit.*

Besides presenting the necessary political framework for the period, this course will give particular attention to the institutions of feudalism, manorialism, the church, monasticism, universities and the new cities.

262a,b. MODERN EUROPE. *Three hours credit each.*

The analysis and evaluation of the origins, nature, and interrelationships of the political, economic, social and intellectual institutions of modern Europe; exploration; reformation; power politics; English constitutionalism; colonialism; enlightenment and French Revolution; reaction; nationalism and democracy; private industrial capitalism and imperialism revived; arts and sciences; background for war.

269. THE FAR EAST. *Five hours credit.*

The economic, social, educational, philosophical, and political life of the major nations and regions of the Far East.

271. ENGLISH HISTORY. *Five hours credit.*

Brief survey of the background of English History to the Tudor Dynasty. The emphasis of the course will be on the economic, political, and social transitions since the defeat of the Spanish Armada.

UNITED STATES HISTORY**70a,b. UNITED STATES HISTORY.** *Four hours credit each.*

A general survey of the American scene; the European backgrounds of American history, the age of discovery and colonization, the imperial rivalries, the revolution and the new nation, nationalism and sectionalism, the civil war and reconstruction, the emergence of modern America; the United States as a world power, the new nationalism, the new freedom and the new deal. Must be taken in sequence.

75. UNIT SURVEY OF UNITED STATES HISTORY. *Four hours credit.*

For elementary teachers only. Detailed consideration of specific units in American history with emphasis upon the content and materials for use in elementary schools.

180. COLORADO HISTORY. *Two hours credit.*

Indian civilization; Spanish and French explorations; American exploration; Indian wars; pioneer home life, religion and education; fur, mining, and cattle industries; agricultural development, conservation and reclamation projects; conflicts between capital and labor; territorial and state governments.

246. GEOGRAPHIC INFLUENCES IN UNITED STATES HISTORY. *Two hours credit.*

Relationships of the geography of the times to the discovery, exploration, settlement, and development of the United States.

252. HISTORY OF THE WEST. *Five hours credit.*

Western movement beginning with 1607. The colonial west, organization of Northwest territory, Indian wars, Cumberland road, coming of steamboat, canal era, frontier monetary problems, relation of Mormons to westward movement, pre-emption and homestead acts, forty-niners and fifty-niners, transcontinental railroads, range cattle industry.

265. CONTEMPORARY UNITED STATES HISTORY. *Three hours credit.*

Brief summary of the great trends in the United States in the period following the War Between the States, The Progressive Movement, New Nationalism and the New Freedom, World War I, League of Nations, Normalcy and Reaction, Great Depression, New Deal, World War II, United Nations, Post-War problems, the Korean "Police Action."

273. DIPLOMATIC HISTORY OF THE UNITED STATES. *Five hours credit.*

Survey of the diplomacy which has affected the United States during its entire history. Supplementary readings required in the original and secondary sources.

363. AMERICAN REVOLUTION. *Three hours credit.*

Imperial Rivalries, British Problem of Empire, widening breach between the Colonies and the Mother country, Revolt of the Seaboard Colonies, the Declaration of Independence, and the Treaty of Paris 1783, the Articles of Confederation, Critical Period, and the Constitution of 1789.

364. CIVIL WAR AND RECONSTRUCTION. *Three hours credit.*

Institution of Slavery, Crises of the 1850's and the Election of 1860, Secession, War Between the States, Emancipation, Reconstruction in the Post-War era.

LATIN-AMERICAN HISTORY**266. COLONIAL LATIN AMERICA.** *Five hours credit.*

The work of Spain in the New World with particular emphasis on the fusion of cultures and institutions.

267. MODERN LATIN AMERICA. *Five hours credit.*

The political structure of the new national states; their economic and social problems.

368. SOCIAL HISTORY OF LATIN AMERICA. *Three hours credit.*

The educational systems, the role played by the church, the types of society developed, and the resultant cultural life.

POLITICAL SCIENCE**170. NATIONAL GOVERNMENT OF THE UNITED STATES.** *Five hours credit.*

Origin and adoption of the Constitution, basic principles of the American Constitutional system, the machinery of popular control, and the structure of the national government.

171. STATE AND LOCAL GOVERNMENT. *Four hours credit.*

Prerequisite, Pol. Sci. 170. The organization of state, county, and municipal governments.

172. PROBLEMS IN UNITED STATES GOVERNMENT. *Four hours credit.*

Prerequisite, Pol. Sci. 170. The constitutional and extra-constitutional factors affecting the legislative process, the conduct of administration, the budgetary and fiscal policies of the government, and the control of foreign relations.

218. RUSSIAN-AMERICAN RELATIONS. *Three hours credit.*

An analysis of the contemporary political and economic relations between the United States and the Soviet Union; of zones of tension and conflict, areas of agreement and possible solutions to the controversies which currently make for strained relations between these world powers.

274. INTERNATIONAL ORGANIZATION. *Three hours credit.*

The bases of international relations, progress in international laws and legislation and modern attempts to establish formal machinery for handling international problems.

275. THE UNITED NATIONS. *Three hours credit.*

The background and organization of the United Nations. Includes a detailed study of the six organic bodies of the United Nations and its subsidiary agencies.

276. INTERNATIONAL RELATIONS. *Three hours credit.*

A study of the power relationships existing in a world of sovereign nation states at mid-century.

279. POLITICAL PARTIES AND PRESSURE GROUPS. *Three hours credit.*

Prerequisite, Pol. Sci. 170. The organization and techniques of political parties in the United States, the voting behavior of the electorate and the problems relating to the machinery of representative democracy.

376. GOVERNMENT OF GREAT BRITAIN. *Three hours credit.*

A study of British political theory, the legislative, executive and administrative branches of government and the political problems of Great Britain at mid-century.

377. THE CONSTITUTION AND ITS INTERPRETATION. *Three hours credit.*

Prerequisite, Pol. Sci. 170. The major sections and clauses of the constitution as developed and interpreted by the courts and by leading writers in the field of constitutional law.

378. GOVERNMENT OF THE UNION OF SOVIET SOCIALIST REPUBLICS. *Two hours credit.*

A study of Russian political theory; an examination of the legislative, executive and judicial branches of government.

380. SEMINAR IN UNITED STATES POLITICS. *Two hours credit.*

Prerequisite, Pol. Sci. 170. Standard seminar—individual research with discussion and critical evaluation.

SOCIOLOGY

101. PRINCIPLES OF SOCIOLOGY. *Five hours credit.*

A study of the science of the structure and functioning of human groups—small groups and societies.

203. WORLD'S GREAT RELIGIONS. *Three hours credit.*

A study of several of the contemporary religions of the world; the basic doctrines, the ceremonies, rituals and customs, and their development within the cultural pattern.

204. MARRIAGE AND THE FAMILY. *Three hours credit.*

A study of the modern American family and its culture, marriage in relation to the development of personality, the choice of a mate, marital adjustment, the changing modern family and the nature of the happy family.

206. CRIME AND DELINQUENCY. *Two hours credit.*

Causes, treatment and prevention of crime and delinquency.

§289. SOCIODRAMA. (Credit may be obtained in Social Studies or Education.) *Three hours credit.*

The development of spontaneous role-playing for the improvement of face-to-face learning skills, social insight, problem solving, changing attitudes, mental health and intergroup understanding as well as guidance. Applied to teaching the Social Studies (all levels) and to guidance. Laboratory work.

§290. SOCIOMETRY. (Credit may be obtained in Social Studies or Education.) *Two hours credit.*

The measurement of interpersonal relations in small groups; measurement of social status, social adjustment, leadership and morale. Sociometric organization of elementary and secondary school classrooms. Laboratory work.

§291. SOCIAL PSYCHOLOGY. (Credit may be obtained in Social Studies or Education.) *Two hours credit.*

Specialized study of the behavior of man in groups. Personality, society and culture; psychological aspects of human conflict, man's behavior, morale and leadership, and attitudes.

General Information

History • The history of Colorado State College of Education closely parallels much of the growth and development of the Greeley Union Colony. The Colony was organized in 1870 by Nathan C. Meeker, traveler and newspaper correspondent, and was named after Horace Greeley.

When the Colony was eighteen years old, a movement was started to establish a normal school to supply teachers for the community and state. The law creating the State Normal School was signed on April 1, 1889, and the cornerstone of the first building was laid on June 13, 1890. Classes were started October 6, 1890, with a staff of the principal, four instructors, and ninety-six students. Certificates were granted upon the completion of the two-year course.

In 1911 the name was changed to Colorado State Teachers College by the state legislature. The college was then offering four years of undergraduate work and granting the Bachelor of Arts degree. In 1935 the present name was adopted to recognize the fully developed graduate program which was started in 1913.

Government • The college is under the management of a Board of Trustees of seven members, six of whom are appointed by the Governor of the State. The State Commissioner of Education serves *ex-officio*. Money for the maintenance of the college comes from a state mill tax and from special appropriations made by the legislature.

Location • The college is in Greeley, a city of 20,354 population. Greeley is in northern Colorado and is 52 miles north of Denver and 52 miles south of Cheyenne, Wyoming. Estes Park is 51 miles west.

Laboratory School • The college maintains a Laboratory School which includes Nursery School, Ernest Horn Elementary School, and College High School. For information on tuition and fees, the Director of the Laboratory School should be consulted.

Campus • The college is in a beautiful residential section of Greeley. Much of the campus of eighty-eight acres is planted to trees and foliage. The physical plant includes thirty buildings exclusive of college-owned fraternity and sorority houses. The men's residence halls are two blocks east of the main campus and are near Jackson Field.

Library Facilities • The college library has over 135,000 volumes cataloged, over 400 different periodicals, plus many government documents, pamphlets, and reference materials. The library is in Carter Hall, a modern building with many comfortable, well-lighted study areas. The book stacks are open to all students and other patrons.

Public Services • Coordinated through the Department of Public Relations, the college provides several types of services for students, schools, and communities. The services include field residence classes and correspondence study, placement of graduates in teaching positions, scheduling staff members and students for speaking engagements, and assisting schools and communities with their education problems.

Field Service Program • In the fall of 1949, the college re-established its field service program that was so effective before the war. As a part of the field service program education centers have been organized in several areas of the state with members of the college faculty in charge. The faculty members, who are known as the directors of the education centers, organize and teach classes that carry residence credit when taught by them or some other regular member of the faculty. All rules and regulations affecting campus instructors and instruction shall apply to these off-campus instructors and instruction. These courses may be taken in addition to forty-five hours of extension credit. However, no student can complete the requirements for the A.B. degree without forty-five hours of credit taken on the campus at Greeley.

Correspondence Study • For the convenience of students who cannot meet in extension classes, the college provides individual correspondence courses. Each course consists of a set of study units,

which is completed by the student. The student's responses are made in writing to the teacher who reads and grades the papers. In all cases, the teachers grading correspondence papers are regular members of the faculty.

Extension Credit and Regulations • Forty-five quarter hours is the total of extension and/or correspondence credit which may be applied toward meeting the requirements for the completion of the Bachelor of Arts degree. No graduate credit is given for extension work.

Students in residence are not permitted to take work by correspondence. This regulation shall not be interpreted as prohibiting students from completing four quarter hours in correspondence between the end of the Summer Session and the beginning of the Fall quarter.

Recommendations and Appointments • The Office of Recommendations and Appointments helps to place graduates of the college in school positions. The only charge for this service is a small one to cover, in part, the cost of assembling data concerning the applicant. The fee is paid when the applicant enrolls.

School boards and superintendents seeking teachers are also assisted by the Office of Recommendations and Appointments. Superintendents and school board members are invited to visit the college, and utilize the services of the office. Private offices are provided for interviews.

Student Personnel

All out-of-class activities and services for resident students are supervised by the Department of Student Personnel. These include application for admission, veterans counseling, matriculation and guidance examinations, registration for courses, record keeping, student health services, counseling of a personal nature as well as academic guidance, living accommodations, recreational events, student employment, and student loans and scholarships.

Counseling Services • Counseling services are available for all students of the college. These services provide an opportunity for them to receive help in determining and understanding their aptitudes and interests in order that they might select a course of study in keeping with their needs and desires. Help is also available to assist students who are having difficulty with course work or who present other types of problems which arise in college life, such as those of a personal nature involving social situations, health, finances, or housing.

Student Residence Halls • The college provides men and women students ten attractive and well-equipped residence halls and several houses for social organizations. Residence in these halls provides social, educational, and cultural advantages to the student. Each hall is under the supervision of a director chosen for his or her experience and interest in the personal and social growth of college-age students.

Residence Regulations • All women students are to be in their places of residence by 10:30 p.m. on all nights preceding a school day, and by 1:00 a.m. on Friday and Saturday nights. When residence halls are occupied during vacation, the hours will be 11:00 p.m. Sunday through Friday and 1:00 a.m. Saturday night. The night on which the college closes for a vacation will not be a one o'clock night unless there is an organized party sponsored by the Associated Students. Quiet hours in all residence halls, college-owned houses, and college-approved private homes are: Monday through Friday, 8:00 a.m. to noon and 1 p.m. to 4:00 p.m.; Monday through Thursday, after 8:00 p.m.; Friday and Saturday, after 11:00 p.m.; Sunday, 3:30 p.m. to 5:00 p.m. and after 8:00 p.m.

Linen and Bedding • Students provide their own personal linens and towels. The college furnishes and launders college-owned bedding at a charge of \$5.00 each quarter. Students may furnish their own bedding if they wish.

Dining Rooms • Students living in the residence halls have their meals in the dining rooms maintained on the campus. Rates are established on a room-and-board basis. These rates may vary slightly depending upon location and size of the room as well as upon any marked fluctuations in food costs. Such changes are authorized by the Board of Trustees. Notification of changes in rates is given at least thirty days in advance of any school quarter.

Application for Rooms • Since the accommodations in the residence halls are in great demand, application for rooms should be addressed early to the Housing Office, Department of Student Personnel. After reservations have been confirmed, a fifteen dollar (\$15.00) deposit must be made by the student. If a student decides not to take a room after he has reserved it, \$5.00 will be refunded if the Supervisor of Housing is notified at least twenty days prior to the quarter for which the room has been reserved.

After the student enters the residence hall, the deposit will be held to the student's credit as a protection against property damage and penalty charges. It will be returned to the student on final withdrawal after deductions have been made for any charges. If the year's contract is broken at the close of any quarter, \$10.00 of this deposit will be forfeited.

Except for Greeley residents, first-year students are required to live in the residence halls. Permission to live off-campus is granted only after careful consideration of the request. This consideration will normally include the written consent of parents.

Off-Campus Housing ● The Housing Office has also investigated and approved many Greeley homes near the campus, and will assist students who do not live in residence halls to obtain rooms in the private houses. Boarding places near the college are available for students living off-campus. All resident students are required to live either in the college residence halls or in approved private residences.

Jackson Field Housing Project ● A limited number of temporary apartment units are available for students with families. These furnished apartments are provided with heat, electricity, and water. All veterans housing is located on college-owned property, near the men's residence halls and the stadium, Jackson Field. Applications for rentals are made at the Housing Office in the Department of Student Personnel. The same policy of deposits applies.

Student Employment ● A large number of the students of the college have part-time employment on campus to help defray their expenses. Other jobs are available in Greeley business places and homes.

Recommendations for college employment are an important part of a student's record. Each student employed on the college campus must maintain a satisfactory grade average. A cumulative and quarterly average of "C" (3.0) is satisfactory for this purpose.

Inquiries concerning employment should be addressed to the Director of Student Employment, Department of Student Personnel.

Citizenship Standards ● A student is expected to be a good citizen of his college community. When a student shows evidence of lacking the essential qualities of scholarship, health, and character, he may be suspended by the college.

Health Services ● The Student Health Service offers extensive dispensary facilities with graduate nurses in attendance at all times during the college day, and with physicians available at specific office hours.

Allocation of \$3.75 of the quarterly fees paid by each student provides adequate off-campus health services. Students are given a health certificate with the names, addresses, and telephone numbers of all physicians in Greeley. A student may go to the office of any Greeley physician, or he may call the physician to his residence. Fees and costs of certain operations are paid for from this health fund.

Modified diets are provided by the dietitians in charge of the student dining rooms when possible and on recommendation of the Coordinator of Student Health Services.

Student Activities

Student government and the direction of student affairs on the campus are administered by the members of the Associated Students. The Associated Students elect in the Spring quarter a student governing body, the Student Council. The Student Council serves in the succeeding school year.

Membership in the Associated Students is required of all students who are registered for five or more credit hours. A membership fee is collected at the time of registration. This fee entitles members to attend, without additional charge, cultural, social, dramatic, and athletic programs. Members also receive a copy of each issue of *The Mirror*, student newspaper, and the *Cache la Poudre*, student annual. Facilities of the Student Union building are available to members.

Student Activities • All campus organizations must apply each year to the Student Council for charter approval. When organizations are recognized by the Student Council, the Director of Student Personnel, and the President of the College, facilities of the campus, set aside for such purposes, may be used by the groups.

Forensics • Students have an opportunity to participate in a comprehensive program of intercollegiate debate and public discussion. The college is a member of the Colorado-Wyoming Intercollegiate Forensic League and has the Colorado Beta chapter of Pi Kappa Delta, national forensic society. Under faculty supervision, students participate in regional and national programs.

Publications • Students interested in journalism have an opportunity for expression in two campus publications owned and published by the students. *The Mirror* is a weekly newspaper, and the *Cache la Poudre* is the student annual. The students also edit and publish a literary magazine.

Little Theatre of the Rockies • The Little Theatre of the Rockies presents several outstanding plays during the school year. Students may try out for parts in the plays or work as stage carpenters, electricians, property managers, etc.

Athletics • The athletic activities of the college are governed by a Board of Athletic Control on which both students and faculty are represented. Intercollegiate and intramural contests are systematically carried on in football, basketball, baseball, field and track, wrestling, swimming, gymnastics, and tennis. Gunter Hall, the large modern and thoroughly equipped gymnasium, and Jackson Field, athletic stadium, afford ample facilities for the major outdoor and indoor sports.

Colorado State College of Education is a member of the Rocky Mountain Intercollegiate Athletic Conference, and is bound by the rules of that body in governing eligibility of athletes.

The Women's Athletic Association has charge of and encourages intramural participation in athletic sports suitable for women, including swimming, basketball, softball, volleyball, tennis, track and field, archery, and fencing.

Religious Program • The college emphasizes the value of a religious life and encourages students to attend churches of their choice. Greeley is noted as a city of churches. Most denominations are represented by an active church. There are several student religious groups on the campus. The Religious Council, composed of student representatives of these denominations, is the coordinating agency for campus religious activities.

Music Organizations • The music program is an important part of the college life. Qualified students are eligible to participate in the a cappella choir, the college band, the college orchestra, and the Greeley Philharmonic Orchestra. During the school year, the Division of Music presents special programs.

Associated Women Students • All women students are members of the Associated Women Students. This organization supports the many projects which further the growth and betterment of the college. The organization is very active in assuring a friendly welcome to each new student.

Clubs and Honorary Fraternities • Each division of the college sponsors honorary fraternities and clubs of various types which are of interest to students majoring or minoring in the division. These organizations provide an opportunity for students and faculty members to become better acquainted.

Qualified students are eligible to become members of numerous honorary and service fraternities, which include: Alpha Delta (national journalism fraternity); Alpha Psi Omega (national drama fraternity); Tau Beta Sigma (national band fraternity for women); Blue Key (national service fraternity); Delta Omicron (national music fraternity for women); Delta Phi Delta (national art fraternity); Kappa Kappa Psi (national band fraternity); Lambda Sigma Tau (national science fraternity); Orchestis (modern dance organization); Phi Sigma Iota (national foreign language fraternity); Phi Alpha Theta (national history fraternity); Phi Delta Kappa (national professional education fraternity); Intercollegiate Knights (national service organization for men); Phi Mu Alpha Sinfonia (national music fraternity); Pi Kappa Delta (national forensic fraternity); Pi Lambda Theta (national education fraternity for women); Pi Omega Pi (national business education fraternity); Spur (national service organization for women); Kappa Delta Pi (national education fraternity); Arnold Air Society (honorary AFROTC society).

Social Organizations • At Colorado State College of Education there are five social fraternities and seven sororities. The fraternities are Acacia, Delta Psi, Sigma Phi Epsilon, Tau Kappa Epsilon and Theta Xi. The seven sororities are Alpha Sigma Alpha, Alpha Sigma Tau, Delta Sigma Epsilon, Pi Kappa Sigma, Sigma Kappa, Sigma Sigma Sigma, and Theta Sigma Upsilon.

All of the sororities are affiliated with National Panhellenic Council. No student is eligible for pledging until he or she has been enrolled at Colorado State College of Education for one quarter.

Panhellenic Council, composed of two representatives from each sorority, and the Inter-Fraternity Council, composed of three representatives from each fraternity, function as coordinating agencies for their respective groups, governing pledging and initiation and maintaining a high plane of inter-sorority and inter-fraternity relations on the campus. The councils sponsor several awards to the member organizations including awards for high scholastic achievement.

The Independent Students Association maintains an active program of social events on the campus.

Scholarships, Awards, and Loan Funds

Several scholarships and awards have been established for students of the college. To keep scholarships in force, the recipient must maintain a satisfactory grade average. Unless otherwise noted, applications for scholarships will be made to the Scholarship Committee, Department of Student Personnel.

Jack Petteys Memorial • Beginning in 1944, three scholarships of \$500 each were made available annually by the Jack Petteys Memorial Foundation for students coming to the campus from China. The Foundation was established by Mr. and Mrs. Alonzo Petteys of Brush, Colorado, in memory of their son, Jack Petteys, who lost his life in World War II.

"Around the World with Dobby" Scholarship • The "Around the World with Dobby" scholarship was established by members of "Dobby's Gang" in memory of former Colorado State College of Education students who lost their lives in World War II.

The scholarship provides \$50 per quarter, for three quarters, which is to be used for the payment of fees, tuition, books, and other expenses. The Scholarship Committee of the college selects the man or woman to receive the scholarship for each school year. The scholarship was made possible by a fund of unsolicited contributions from members and friends of "Dobby's Gang."

Associated Students Scholarship • The Associated Students of Colorado State College of Education provide an annual scholarship to be awarded to a citizen of the United States resident in Colorado who is a member of a racial minority group. This scholarship covers the cost of tuition for the academic year and may be renewed for four years provided the recipient remains in college each quarter of the academic year and maintains a satisfactory grade average. Applications for the scholarship should be addressed to the Director of Student Personnel.

The Miriam Mitchell Memorial Scholarship Fund • The Miriam Mitchell Memorial Scholarship Fund was established by the will of Miriam Mitchell to assist deserving young women who are resident citizens of the State of Colorado to defray the expenses of attending Colorado State College of Education. A number of scholarships are awarded annually from this fund, and a recipient may qualify for each year she is attending college as a full-time undergraduate student. Normally a scholarship is not awarded before the sophomore year. The scholarship generally provides a sum equal to tuition, fees, and books for the academic year.

Colorado State College of Education Awards • Colorado State College of Education awards a limited number of scholarships and tuition waivers to graduates of Colorado high schools and junior colleges who deserve such recognition and are especially interested in becoming teachers. These scholarships cover the cost of tuition, but do not include the payment of college fees.

To keep college scholarships in force the recipient must maintain a grade average meeting the standards established by the Scholarship Committee and must uphold all requirements of good citizenship.

Joint Honor Scholarships • Cooperating with other state institutions of higher learning in Colorado, the college honors Joint Honor Scholarships which are awarded at high school commencements to outstanding students under a program arranged by the participating institutions. The Joint Honor Scholarship covers the cost of tuition. College and Associated Students' fees must be paid by the student. A high school senior is advised to inquire of the principal or superintendent of his school concerning the eligibility standards for such scholarships.

Other Scholarships • Frequently students coming to Colorado State College of Education or already enrolled in the college are awarded scholarships from the following sources:

THE BOETTCHER FOUNDATION

COLORADO CONGRESS OF PARENTS AND TEACHERS

IOOF

AAUW (GREELEY BRANCH)

THE COOPER FOUNDATION

KEPNER MEMORIAL AWARD

EL POMAR FOUNDATION SCHOLARSHIP

MARY ELDRED MEMORIAL AWARD

HELEN MACCRACKEN SCHOLARSHIP

SEARS-ROEBUCK FOUNDATION SCHOLARSHIP

From time to time private individuals and service or social clubs make scholarships available for deserving students.

Loan Funds • Fourteen college loan funds with aggregate resources of over \$52,000 are available to help worthy students. Applications for loans may be made to the Committee on Loans and Scholarships.

All loans are completed on personal, unsecured notes bearing a low rate of interest. Over-all living costs, job prospects, potential earning power, and the credit experience of the student are carefully considered by the committee. Over five thousand students have utilized the loan funds since 1911. The funds are: William Porter Herrick Memorial, Sarah Platt Decker Memorial, Rotary, WTK, Fortnightly Music Club, Kendel Music, Altrusa, Shyn, Sigma Upsilon Graduate, Panhellenic, High School Loan Fund, Merriman Memorial Fund, Andrew P. Bengtson and Gertrude Bengtson Memorial, and Delta Omicron Society Fund.

Expenses

Quarterly Tuition and Fees

Fall, Winter and Spring Quarters

REQUIRED OF ALL STUDENTS enrolled for programs of 6 credit hours and above.

	<i>In-State Students Each Quarter</i>	<i>Out-of-State Students* Each Quarter</i>
Tuition - - - - -	\$27.50	\$52.50
Registration Fee - - - - -	3.50	3.50
College Service Fee - - - - -	9.25	9.25
Associated Students' Fee** - - - - -	10.00	10.00
	\$50.25	\$75.25

Required tuition and fees for the academic year—fall, winter and spring quarters—for in-state students total \$150.75 and for out-of-state students, \$225.75. Tuition for limited programs for one through six hours is charged at the rate of \$4.00 per credit hour and fees listed above are not assessed thereon. The College Service Fee includes a Health Fee of \$3.25.

Courses audited bear the same tuition rate as those taken for credit but no accompanying fees are charged. An audited course can never be converted into one carried for credit.

*Out-of-state status is determined in accordance with rulings established by the Board of Trustees and reviewed by a college committee. The decisions of the committee are final. Declarations of intent to be or become a resident of Colorado have no bearing on the status conferred on the student to whom the out-of-state fee applies.

**This fee entitles the student to Associated Students' identification card or a quarterly validation of an existing card. The charge finances attendance at athletic events, concerts, and college plays, and provides a subscription to the Mirror (student newspaper) and the Cache La Poudre (student annual).

Incidental Tuition and Fees

These are applicable each quarter in the terms of individual registrations:

Late registration (assessed for enrollment permitted after the scheduled hours of registration any quarter) - - - - -	\$ 5.00
Special examination (assessed when permission is granted to take an examination at a time other than the hour scheduled) - - - - -	2.00
Late application for degree - - - - -	2.00
Change of program (assessed for each program change permitted after an announced grace period) - - - - -	1.00
Extension of credit	
Tuition and fees - - - - -	1.00
Board and room by installments, as arranged - - - - -	1.50
(Tuition and fees, charges for board and room or apartment rentals are payable at registration in every quarter. For just cause, postponements may be arranged on application.)	
Credit by examination	
Test - - - - -	2.00
Credit entitlement by examination, each credit hour - - - - -	4.00
Tuition for on-campus limited course programs (registration for credit or audit one through six hours) per credit hour - - - - -	4.00
Tuition for correspondence course study, per credit hour - - - - -	4.00
Tuition for group instruction (residence credit earned in the off-campus teaching centers) per credit hour - - - - -	4.50

Fees Added for Graduate Study

Candidates for advanced degrees enrolled for a Plan A thesis for the Master of Arts or a practicum for the Specialist in Education are assessed tuition at rates based on the number of credit hours for which the study is assigned.

Doctoral Research Study (assessed in three installments of \$30.00 each for three quarters during the progress of the study) - - - - -	\$90.00
Publication, Doctoral Research Study (payable when the study has been defended and approved) - - - - -	40.00
Binding Master's thesis, Practicum or Doctoral Research Study (4 copies required) per copy \$2.00 - - - - -	8.00
Remedial Writing Laboratory (required of a student assigned to the laboratory following tests) - - - - -	10.00
Advanced Test in Education and Psychology (for Doctoral Students)	3.00

Fees for Music Instruction

Individual music lessons per quarter	
Music majors - - - - -	\$12.50
Other college students - - - - -	15.00
Persons not enrolled in the college or affiliated schools - - - - -	25.00
Individual music lessons, less than a full quarter	
Violin, piano, organ, strings, each - - - - -	3.00
Other instruments, each - - - - -	2.50
Practice room per quarter (includes piano rental) - - - - -	5.00
Orchestra or band instrument rental per quarter - - - - -	5.00
Organ rental per quarter - - - - -	10.00

Policy on Refunds

Partial refunds of tuition or fees on withdrawal are made under Board of Trustees' rulings as follows:

Fall, winter, or spring quarters—

1. Within the first week following registration—all tuition, no fees.
2. Within the second week following registration—three-fourths tuition, no fees.

3. Within the third week following registration—one-half tuition, no fees.
4. Within the fourth week following registration—one-fourth tuition, no fees.

Summer Sessions

1. Pre-session course, no refund after attending the first session of class.
2. Within the first week of the eight weeks' regular session, three-fourths tuition, no fees.
3. Within the second week, regular session, one-half tuition, no fees.
4. Within the third week, regular session, one-fourth tuition, no fees.

Consult the residence halls' lease for terms covering refunds on board and room. Due to possible fluctuation in food prices or the cost of service, the Board of Trustees reserves the right to alter residence halls charges on thirty days' notice prior to the registration date for any college quarter.

Fees for College Residence Halls

Fall, Winter and Spring Quarters	<i>Per Quarter</i>	
	<i>Minimum</i>	<i>Maximum</i>
Board and Room		
Men's residence halls - - - - -	\$173.00	\$179.00
Women's residence halls - - - - -	159.00	173.00
Board (limited to students not resident in college halls, 14 meals per week, excluding breakfasts) - -	115.00	115.00
Rooms, college-owned fraternity or sorority houses (restricted to organization members) - - - - -	42.50	47.50
	<i>Per Month</i>	
Apartments, Jackson Village (rentals restricted to married students) - - - - -	31.00	43.00

Students are expected to provide their own personal linens and towels. For those wishing such service the college will furnish and launder college-owned sheets, pillowcases and blankets at a charge of \$5.00 per person per quarter. Applications for rooms should be addressed to the Housing Office, Department of Student Personnel. To confirm a reservation a \$15.00 deposit must be advanced by the student. If the student desires to cancel a reservation \$5.00 will be refunded if notification is given at least twenty days prior to the quarter for which accommodations have been reserved. After the student enters a residence the deposit will be held to his credit as a protection against penalty charges and property damage. On withdrawal of the student the deposit, less any deductions assessed, will be returned. If the academic year's contract is broken during or at the close of any quarter \$10.00 of the deposit shall be forfeited.

Summer Session Tuition and Fees

<i>Credit for which Registered</i>	<i>In-State Students</i>	<i>Out-of-State Students</i>
1-3	\$16.50	\$21.50
4	22.00	27.00
5-8	35.00	50.00
9-12	40.00	65.00

During summer sessions a Registration Fee (\$3.50) and College Service Fee (\$6.00) are assessed on all programs of five or more credit hours of enrollment.

All other fees applicable in the fall, winter, and spring quarters of the regular academic year listed in this section apply to summer session enrollments except the Associated Students' Fee.

By obtaining visitors' cards at the Business Office, wives of regularly enrolled summer session students may attend certain classes without cost if no credit is desired. Laboratory and ticketed courses are always excluded from visitors' card privileges.

Fees for College Residence Halls

Summer Sessions	<i>Pre-Session (2 weeks)</i>	<i>Regular Session (8 weeks)</i>	
		<i>Minimum</i>	<i>Maximum</i>
Board and Room			
Men's residence halls - - - -	\$33.00	\$134.00	\$138.00
Women's residence halls - - - -	33.00	124.00	138.00
Board only (limited to students not resident in college halls, 14 meals per week, excluding breakfasts) - - - - - -		85.00	85.00
Rooms, college-owned houses			
Single person - - - - - - - -	10.00	37.50	42.50
Married couples (rate for 2 persons) - - - - - - - - - -		90.00	110.00

Incidental Fees, Graduate Study Fees, Tuition for Individual Music Instruction, assessable in the regular academic year, are also applicable to the summer sessions.

Index

Absences - - - - -	18	Calendar of Events - - - -	5
Academic Information - -	16-18	Chairmen of the Divisions - -	7
Accreditation - - - - -	16	Chemistry - - - - -	137-138
Activities - - - - -	159-161	Citizenship Standards - - -	158
Administrative Departments -	7	Clubs - - - - -	160
Administrative Officers - - -	6-7	Common Courses—	
Admission—		With Teaching Certificate -	23
Graduate - - - - -	25	Liberal Arts - - - - -	24
Transfer - - - - -	19	Correspondence Study - -	155-156
Undergraduate - - -	18-19	Counseling Services - - - -	156
Air Science and Tactics,		Course Load, Undergraduates -	17
Division of - - - - -	42-48	Course Numbers - - - - -	16
Anthropology - - - - -	149	Degrees—	
Arts, Division of The - -	48-69	Bachelor of Arts	
Fine Arts - - - - -	48-54	(With Teaching	
Home Economics - -	55-63	Certificate) - - - - -	20-22
Industrial Arts - - -	63-69	Bachelor of Arts	
Associated Students - - - -	159	(Liberal Arts) - - - - -	22
Associated Women Students -	160	Doctor of Education - -	36-42
Athletics - - - - -	159	Master of Arts - - -	29-33
Eligibility for - - - -	20	Specialist in Education -	33-36
Awards - - - - -	161-163	Departments, Director of—	
Bachelor of Arts Degree		Business and Finance - - -	7
(With Teaching		Instruction - - - - -	7
Certificate) - - - - -	20-22	Public Relations - - - -	7
Bachelor of Arts Degree		Student Personnel - - - -	7
(Liberal Arts) - - - -	22	Dining Rooms - - - - -	157
Biology - - - - -	135-136	Division Chairmen - - - - -	7
Board of Trustees - - - -	6	Doctor of Education Degree	36-42
Botany - - - - -	136-137	Drama - - - - -	114-119
Business Education - - -	88-93	Dramatics (Little Theatre) -	159
		Eligibility for - - - - -	20

- Economics - - - - - 149-150
- Education, Division of - - 70-93
- Business Education - - 88-93
- Elementary Education - 70-71
- General Secondary Education 70
- Elementary Education - - 70-71
- Major Plan - - - - 21-22
- Employment, Student - - - 158
- English - - - - - 106-110
- Entrance Requirements - - 18-19
- Examinations—
- Final - - - - - 18
- Health - - - - - 19-20
- Proficiency - - - - - 17
- Expenses - - - - - 163-166
- Extension Credit - - - - 156
- Extracurricular Activities - 159-161
- Eligibility for - - - - 20
- Faculty Advisers - - - - 19
- Faculty, Listing of - - - - 8-15
- Fees - - - - - 163-166
- Field Service Program - - - 155
- Fine Arts - - - - - 48-54
- Foreign Languages - - - 110-114
- Forensics - - - - - 159
- Eligibility for - - - - 20
- Fraternities—
- Honorary - - - - - 160
- Social - - - - - 160-161
- Functions of the College - - 16
- General Information - - - 154-156
- General Science - - - - 133-134
- General Secondary Education - 70
- Major Plan - - - - - 21
- General Social Studies - - 148-149
- Geography - - - - - 150-151
- Grade Computation - - - - 17
- Grading System - - - - - 17
- Graduate Program - - - - 24-42
- Course Load - - - - - 26
- Credit for Off-Campus
 Classes - - - - - 28-29
- Graduation Requirements—
- Graduate - - - - - 27
- Undergraduate - - - - 20-22
- Health and Physical Education,
- Division of - - - - - 93-104
- Health Examinations - - - 19-20
- Health Service - - - - - 158
- History of the College - - - 154
- Home Economics - - - - - 55-63
- Honorary Fraternities - - - 160
- Housing—
- Application for - - - - 157
- Off-Campus - - - - - 158
- On-Campus - - - - - 157
- Humanities, Division of The 104-119
- English - - - - - 106-110
- Foreign Languages - - - 110-114
- Humanities - - - - - 106
- Speech and Drama - - - 114-119
- Humanities - - - - - 106
- Industrial Arts - - - - - 63-69
- Instructional Staff - - - - 8-15

Laboratory School - - - -	155	Religious Activities - - - -	160
Late Enrollment - - - - -	18	Residence Halls - - - - -	157
Latin-American History -	152-153	Residence Requirements - - -	20
Liberal Arts - - - - -	22	ROTC, Air Force - - - -	42-46
Library Science - - - - -	72		
Library, Description of - - -	155	Scholarships - - - - -	161-163
Little Theatre of the Rockies -	159	Scholastic Average - - - - -	17
Eligibility for - - - - -	20	Sciences, Division of The	130-145
Loan Funds - - - - -	161-163	Biology - - - - -	135-136
Location of the College - -	155	Botany - - - - -	136-137
		Chemistry - - - - -	137-138
Master of Arts Degree - -	29-33	General Science - - - -	133-134
Mathematics - - - - -	140-145	Mathematics - - - - -	140-145
Matriculation Requirements - -	19	Physics - - - - -	138-139
Music, Division of - - -	119-129	Science Education - - - -	135
Music Organizations - - - -	160	Zoology - - - - -	139-140
		Science Education - - - -	135
Officers of Administration -	6-7	Social Studies,	
		Division of The - - - -	145-154
Photographs - - - - -	20	Anthropology - - - - -	149
Physical Education Activity		Economics - - - - -	149-150
Courses - - - - -	97	General Social Studies -	148-149
Physics - - - - -	138-139	Geography - - - - -	150-151
Placement of Teachers - - -	156	Latin-American History -	152-153
Plans of Study - - - - -	20	Political Science - - - - -	153
Political Science - - - - -	153	Sociology - - - - -	154
Probationary Status - - -	17-18	United States History - -	152
Proficiency Examinations - -	17	World History - - - - -	151-152
Publications, Student - - -	159	Sociology - - - - -	154
Eligibility for - - - - -	20	Sororities - - - - -	160-161
Public Services - - - - -	155		
		Specialist in Education	
Quarter Hour - - - - -	16	Degree - - - - -	33-36
Quarter System - - - - -	16	Speech - - - - -	114-119
		Student Activities - - - -	159-161
Registration Dates - - - - -	5	Student Employment - - - -	158

Student Personnel, Department of - - - 156-158	Undergraduate Program - - 18-20
Student Publications - - - 159	United States History - - - 152
Student Teaching - - - - 22	Veterans Enrollment - - - 17
Transcripts - - - - - 17	Withdrawal from Class - - - 18
Transfers - - - - - 19	World History - - - - 151-152
Trustees, Board of - - - - 6	
Tuition - - - - - 163-166	Zoology - - - - - 139-140

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