

Colorado State College
of Education at Greeley

Bulletin

1948

1949

YEARBOOK
NUMBER

Colorado State College
of Education at Greeley

Bulletin



Yearbook
Number
1948-1949

Series XLVIII

June, 1948

Number 14

COLORADO STATE COLLEGE OF EDUCATION BULLETIN

Entered as second class matter at the post office at Greeley, Colo., under the act of August 24, 1912. Published monthly.

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College Calendar

1948

Fall Quarter

Sept.	23-25	- - - - -	Orientation and matriculation of new students
Sept.	27	- - - - -	Registration for all students
Sept.	28	- - - - -	Classes begin
Nov.	1-5	- - - - -	Mid-Term examinations
Nov.	25-26	- - - - -	Thanksgiving vacation
Dec.	16-17	- - - - -	Final examinations
Dec.	18	- - - - -	Christmas vacation begins

1949

Winter Quarter

Jan.	3	- - - - -	Registration for all students
Jan.	4	- - - - -	Classes begin
Feb.	7-11	- - - - -	Mid-Term examinations
March	17-18	- - - - -	Final examinations
March	19	- - - - -	Spring vacation begins

Spring Quarter

March	28	- - - - -	Registration for all students
March	29	- - - - -	Classes begin
May	2-6	- - - - -	Mid-Term examinations
May	30	- - - - -	Insignia Day
June	5	- - - - -	Baccalaureate
June	6	- - - - -	Senior Ceremonial
June	8	- - - - -	Commencement
June	9-10	- - - - -	Final examinations

Summer Session

June	13	- - - - -	Pre-Session begins
June	24	- - - - -	Pre-Session ends
June	25	- - - - -	Registration for Regular Session (Friday, 1-4 p.m.; Saturday, 8 a.m.-4 p.m.)
June	27	- - - - -	Classes begin
July	4	- - - - -	Holiday
Aug.	18	- - - - -	Convocation
Aug.	19	- - - - -	Final examinations
Aug.	22	- - - - -	Post-Session begins
Sept.	2	- - - - -	Post-Session ends

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EARLE UNDERWOOD RUGG, PH.D. - - - - - *Division of Education*
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NEAL MILLER CROSS, ED.D. - - - - - *Division of the Humanities*
JAMES DEFOREST CLINE, D.MUS. - - - - - *Division of Music*
WILLIAM LEWIS DUNN, PH.D. - (Acting Chairman) *Division of the Sciences*
LESLIE DAY ZELENY, PH.D. - - - - - *Division of the Social Studies*

Instructional Staff

ROBERT WAYNE ADAMS, A.B., A.M., Colorado State College of Education;
Ed.D., University of Missouri.

Associate Professor of Industrial Arts

WINFIELD DOCKERY ARMENTROUT, A.B., Missouri Valley College; A.M.,
Columbia University; Ed.D., Harvard University; LL.D., Missouri Valley
College; Graduate Student, Ohio State University.

Professor of Education

CLARENCE THEODORE BAAB, A.B., A.M., Colorado State College of Educa-
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Associate Professor of Industrial Arts

GRACE MAE BAKER, B.Art Ed., Chicago Art Institute; B.S., A.M., Columbia
University.

Professor Emeritus of Art

RICHARD FRANKLIN BALL, A.B., State Teachers College, Pennsylvania; A.M.,
Colorado State College of Education.

Assistant Professor of Art

GEORGE ALEXANDER BARKER, B.S., M.S., University of Chicago; Sc.D., Colo-
rado State College of Education.

Professor Emeritus of Geography

SAMUEL CLAY BEDINGER, A.B., A.M., Colorado State College of Education.

Assistant Professor Emeritus of Business Education

Bishop, LeRoy? ON.
RALPH THOMAS BISHOP, A.B., Colorado State College of Education; A.M.,
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Professor of Industrial Arts

MARGARET ERNESTINE BOTTINELLI, R.N., Saint Joseph's Hospital, Denver;
A.B., A.M., Colorado State College of Education.

Assistant Professor of Health Education

MARGARET ELIZABETH BRYSON, A.B., University of Texas; A.M., Colorado
State College of Education; M.D., University of Colorado; Graduate Student,
Columbia University.

Professor Emeritus of Health Education

INSTRUCTIONAL STAFF

LONIS CONNER BUTLER, A.B., A.M., Colorado State College of Education; Ed.D., New York University.

Professor of Physical Education

ELIZABETH CARNEY, A.B., A.M., Colorado State College of Education; Graduate Student, University of Minnesota.

Associate Professor of English

Supervisory Teacher, College Secondary School

ALBERT FRANK CARTER, A.B., Colorado State College of Education; M.S., State Normal School, Pennsylvania; Graduate Student, University of Chicago.

Professor Emeritus of Library Administration

*EUGENE SHAW CARTER, A.B., A.M., Colorado State College of Education

Assistant Professor of Industrial Arts

JEAN CAVE, B.S., Fort Hays Kansas State College; A.M., Columbia University; Student, Niels Bukh's School of Gymnastics, Ollerup, Denmark; Murray School of Dance, New York City; Graduate Student, New York University.

Professor of Physical Education

JOHN ELBERT CHADWICK, A.B., A.M., Colorado State College of Education; Ph.D., New York University; Student at Syracuse University with Iliff Garrison, Harry L. Vibbard, Dr. William Berwald, and Dr. Adolf Frey; Premier Prix d'Orgue under Charles Marie Widor and Henri Libert at Fontainebleau, France.

Professor of Music

HARALD PETER CHRISTENSEN, A.B., A.M., Ph.D., State University of Iowa.

Assistant Professor of Political Science

JAMES DEFOREST CLINE, B.Mus., M.Mus., Eastman School of Music, University of Rochester; D.Mus., Colorado State College of Education; Student with Kuria Strong, Percy Rector Stephens, Arthur Edward Johnstone, Howard Hansen, and Eugene Goosens.

Professor of Music

AMBROSE OWEN COLVIN, B.C.S., University of Denver; A.M., Colorado State College of Education; Ph.D., New York University; Graduate Student, University of California.

Professor Emeritus of Business Education

*On leave Fall, Winter, and Spring Quarters.

INSTRUCTIONAL STAFF

FORREST GERALD CONWAY, A.B., Dubuque University; M.Mus., Chicago Musical College.

Assistant Professor of Music

ETHAN ALLEN CROSS, A.B., University of Illinois; A.M., University of Chicago; Ph.D., Columbia University; Litt.D., University of Colorado; L.H.D., Colorado State College of Education.

Professor Emeritus of English

NEAL MILLER CROSS, A.B., A.M., Colorado State College of Education; Ed.D., Stanford University.

Professor of English

*GEORGE EDWARD DAMON, B.Ed., State Teachers College, Bemidji, Minnesota; A.M., Colorado State College of Education; Graduate Student, University of North Dakota.

Assistant Professor of Business Education

Supervisory Teacher, College Secondary School

HELEN CALDWELL DAVIS, A.B., Grinnell College; A.M., State University of Iowa; Ph.D., University of Chicago.

Professor of Elementary Education

DONALD GILMORE DECKER, B.S., Michigan State Normal College; A.M., Colorado State College of Education; Ph.D., Columbia University.

Associate Professor of Science

Supervisory Teacher, College Secondary School

OLIVER MORTON DICKERSON, A.B., A.M., Ph.D., University of Illinois; Graduate Student, Harvard University.

Professor Emeritus of History and Political Science

JULE STATTON DOUBENMIER, A.B., A.M., Colorado State College of Education; Graduate Student, University of Southern California.

Professor of Physical Education

Supervisory Teacher, Ernest Horn Elementary and College Secondary Schools

MARY FRANCES DOUGHERTY, A.B., A.M., Colorado State College of Education.

Assistant Professor of Physical Education

*On leave Fall, Winter, and Spring Quarters.

INSTRUCTIONAL STAFF

WILLIAM LEWIS DUNN, A.B., University of Illinois; Ph.D., University of Wisconsin.

Professor of Chemistry

ELAINE COLVIN EDMUNDSON, A.B., University of Colorado; A.M., Colorado State College of Education.

Assistant Professor of English

RICHARD GORDON ELLINGER, A.B., Harvard University; A.M., Colorado State College of Education; Diploma, Massachusetts School of Art; Student of Maurice Sterne, Jonas Lie and Eugene Steinhof; Graduate Student, Harvard University.

Professor of Art

WILMA ROSE FARRAR, A.B., Colorado State College of Education; A.M., Columbia University.

Instructor of Business Education

JAMES DONALD FINN, B.S., Montana State College; A.M., Colorado State College of Education; Graduate Student, Ohio State University, University of Wisconsin, University of Minnesota.

Assistant Professor of Education

FOREST NORLAND FISCH, A.B., A.M., Colorado State College of Education.

Assistant Professor of Mathematics

RHODA JANE FOSS, B.S., University of Colorado; M.S., Colorado Agricultural and Mechanical College.

Assistant Professor of Home Economics

GEORGE WILLARD FRASIER, A.B., Ed.M., Michigan State Normal College; A.M., Stanford University; Ph.D., Columbia University; LL.D., Colorado College; LL.D., University of Colorado; Sc.D., Colorado State College of Education.

Professor of Education

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Associate Professor of English

INSTRUCTIONAL STAFF

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Supervisory Teacher, College Secondary School*

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Professor of Foreign Languages

HENRY TRUSTMAN GINSBURG, B.Mus., Denver College of Music; A.B., A.M.,
Colorado State College of Education; Student with Henry Schradieck, Leon
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Professor of Music

HARLEY FREMONT GLIDDEN, B.S., Buena Vista College, Iowa; A.M., State
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College of Agriculture and Mechanic Arts.

Associate Professor of Science

RUPERT MARTIN GOODBROD, A.B., University of Nebraska; A.M., Columbia
University; Student with Herbert Schmidt, Guy Maier, Earnst Hutcheson,
Alton Jones, Percy Grainger, and Mrs. Marjorie McKown; Graduate Student,
Juilliard School of Music.

Assistant Professor of Music

Hayden, Lyman

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Assistant Professor of Public School Music

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Professor of Health

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INSTRUCTIONAL STAFF

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Assistant Professor of Art

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Professor Emeritus of Home Economics

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Professor of Education

*On leave Fall Quarter.

INSTRUCTIONAL STAFF

GEORGE FRANKLIN SANDERSON, A.B., A.M., Colorado State College of Education.

Assistant Professor of Education

OTTO WILLIAM SCHAEFER, M.S., Colorado Agricultural and Mechanical College.

Professor Emeritus of Industrial Arts

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Associate Professor of Biology

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Assistant Professor of Physical Education.

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Assistant Professor of Education

FREEMAN HENRY TEWKSBURY, A.B., A.M., Colorado State College of Education; Certificate, School of Modern Photography, New York City.

Instructor in Photography

FRANCES JANE TOBEY, A.B., Colorado State College of Education; A.M., Columbia University; Graduate Student, University of Oxford, University of Cambridge, England.

Professor Emeritus of English

SYLVESTER ROY TOUSSAINT, A.B., Ripon College, Wisconsin; A.M., University of Michigan; Ph.D., University of Wisconsin.

Professor of Speech

OLIVER LEONARD TROXEL, B.S., North Central College, Illinois; A.M., Ph.D., University of Minnesota.

Professor of Education

*FLOSS ANN TURNER, Ph.B., University of Chicago; A.M., Columbia University; Graduate Student, Stanford University.

Associate Professor of Elementary Education

Supervisory Teacher, Ernest Horn Elementary School

GLEN CORBIN TURNER, A.B., Pomona College; M.B.A., Harvard University; Graduate Student, Claremont Graduate School, Harvard University.

Professor of Business Administration

*On leave Fall Quarter.

INSTRUCTIONAL STAFF

SUSAN HART VAN METER, B.S., University of Missouri; A.M., Columbia University; Graduate Student, Ohio State University.

Associate Professor Emeritus of Elementary Education

EDWARD VON DEN STEINEN, M.D., Western Reserve University.

Professor Emeritus of Health Education

ROLAND CORNELL WATERMAN, B.S., New York State Teachers College; A.M., Columbia University.

Assistant Professor of Business Education

JOHN STOVER WELLING, B.S., Union College; A.M., Columbia University; Ed.D., New York University.

Professor of Social Studies

LEE ROY WEST, B.S., Southwestern Institute of Technology, Oklahoma; A.M., George Peabody College for Teachers; Graduate Student, George Peabody College for Teachers, Columbia University.

Professor of Geography

JOSEPH LOUIS WETZELS, A.B., Conservatory of Music, Verviers; M.Mus., Premier Prix Royal Conservatory of Liege; Student with A. Massau, Jacques Gaillard, and Sylvain Dupuis.

Instructor of Music

FREDERICK LAMSON WHITNEY, Ph.B., Ed.B., A.M., University of Chicago; Ph.D., University of Minnesota.

Professor Emeritus of Education

EDITH GALE WIEBKING, A.B., A.M., Colorado State College of Education.

Professor Emeritus of Home Economics

GRACE HANNAH WILSON, A.B., Colorado College; A.M., Ph.D., Columbia University; Graduate Student, Harvard University, Union Theological Seminary.

Professor of Education

WELBY BURDETTE WOLFE, A.B., A.M., Colorado State College of Education.

Assistant Professor of Art

JAMES BENJAMIN WOODRUFF, A.B., A.M., Colorado State College of Education.

Assistant Professor of Industrial Arts

INSTRUCTIONAL STAFF

WILLIAM LAWRENCE WRINKLE; A.B., A.M., Colorado State College of Education; Ph.D., New York University.

Professor of Secondary Education

HELENE KATHERINE ZAHNEN, A.B., University of Colorado; A.M., Columbia University; Graduate Student, Universidad Nacional, Mexico, University of Colorado.

*Associate Professor of Foreign Languages
Supervisory Teacher, College Secondary School*

LESLIE DAY ZELENY, B.S., University of Minnesota; A.M., Columbia University; Ph.D., University of Minnesota.

Professor of Sociology

ARTHUR FRANKLIN ZIMMERMAN, A.B., McKendree College, Illinois; A.M., Columbia University; B.D., Drew University; Ph.D., University of Illinois.

Professor of History

Library Staff

JOSEPHINE HELEN HALVERSON, A.B., and Certificate of Librarianship, University of California; A.M., Colorado State College of Education.

College Librarian and Assistant Professor of Library Science

OLIVE FINETTE BALLOU, A.B., A.M., Colorado State College of Education; Certificate of Librarianship, University of Denver.

Cataloger

IRENE ENGLE BOGAN, A.B., Drake University; B.S. in Library Science, University of Illinois.

Cataloger and Reference Assistant

CATHERINE HUNT GATES, B.S., University of Missouri; B.S., in Library Science, University of Denver.

Acquisitions Librarian

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

Laboratory School Librarian

VIRGINIA GERTRUDE SMITH, A.B., University of Nebraska; B.S. in Library Science, Columbia University; Graduate Student, McGill University and Colorado State College of Education.

Reference Assistant

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.

Undergraduate Program

1. Bachelor of Arts (A.B.) degree with a teaching certificate. The courses required for this degree prepare teachers and administrators for many types of educational positions. A life certificate to teach in Colorado accompanies the degree.

2. Bachelor of Arts (A.B.) degree in liberal arts. This degree does not carry a teaching certificate.

3. Bachelor of Music (B.M.) degree. The courses offered for this degree are designed for professional and cultural attainments.

Graduate Program

1. Master of Arts (A.M.) degree. This degree is offered in each of the seven divisions of the College. A life certificate to teach in Colorado accompanies the degree.

2. Advanced Graduate Diploma of Specialization. This diploma is granted for one year of special work beyond the Master of Arts degree.

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

Academic Information

Accreditation

The College is accredited by the Association of American Universities, the North Central Association of Colleges and Secondary Schools, and the American Association of Colleges for Teacher Education.

Quarter System

The school year is divided into three quarters: Fall, Winter, and Spring. Each of these quarters has approximately twelve weeks. The Summer Session is composed of three parts: Pre-Session of two weeks, Regular Session of eight weeks, and Post-Session of two weeks.

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 a year, approximately twelve weeks. Most of the college courses call for four recitations a week, representing four quarter hours credit.

Course Numbers

The course numbers are divided into five groups. They are: (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 fourth year and graduate students; (d) 300 to 399 are primarily 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

Ex-service men and women are eligible for tuition and subsistence under the G. I. Bill of Rights. Application form 7-1950 may be obtained from the nearest Veterans' Administration office or the Veterans' Counseling Office, Department of Student Personnel of the College. All veterans entering under this program should have a Certificate of Eligibility or, if a transfer student, Supplementary Certificate of Eligibility which will be presented at the time of registration.

Proficiency Examinations

Proficiency examinations in certain required courses may be taken to determine whether or not the student may be excused from certain courses, or to determine whether credit may be granted for work done in educational centers other than accredited colleges.

Undergraduate Course Load

The normal undergraduate course load for a quarter is 16 hours of academic credit. This does not include the physical activity courses required in the freshman and sophomore years. A maximum of 20 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.

High scores in matriculation examinations and a superior scholastic average in high school or college are required for permission to take extra hours the first quarter in residence.

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 five points; "B" a value of four points; "C" a value of three points; "D" a value of two points; and "F" a value of one point. If all of a 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 2.3 throughout the freshman and sophomore years, and an average above 2.5 for the junior and senior years. A minimum grade average of 2.5 is required for graduation.

Absences

Absences without acceptable excuses are not permitted. Anticipated and emergency absences will 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.

Probationary Status

A student whose quarterly scholastic average is below the established minimum may be placed on probationary status for the succeeding quarter. A student whose scholastic average is below the minimum for two successive quarters may be advised to withdraw from the College.

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.

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 ways:

GRADUATION FROM AN ACCREDITED HIGH SCHOOL. Graduates of unaccredited high schools will be considered individually. High school records should be sent to the College as soon as possible, showing graduation from high school.

A SERIES OF MATRICULATION EXAMINATIONS. The prospective student must make scores which 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.

All undergraduate students enrolled for five 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 photograph taken for official files; (4) file with the College a complete transcript of previous high school or college records.

ADVANCED STANDING FROM OTHER COLLEGES OR UNIVERSITIES. Transfer students will file with the Registrar, before their enrollment, official transcripts of all college and university work taken at other institutions. Transfer students will be classified by the Registrar and the chairman of the student's major division.

Entrance Blanks and Instructions

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 should request "Application for Admission" blanks from the College Registrar.

All students who have completed any part of a college program at some institution other than Colorado State College of Education are classified as transfer students and must apply directly to the Registrar for admission.

If an applicant's past academic record is considered inadequate, the Committee on Admissions 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.

Guidance Examinations

The College provides a testing program and counseling service for each student so that full recognition may be given to general learning capacity, achievement, and to individual differences in social and intellectual maturity. Each student is required to take groups of these tests as a part of his entrance into the College. The results obtained from these tests become a part of the guidance material.

Faculty Advisers

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

Health Examinations

Health examinations are given at the beginning of a student's first quarter in residence, and at other specified times. The examinations are conducted in the Health Office in the Department of Student Personnel 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. The cost of the photographs is included in the College Service Fee. Students who do not have their photographs taken at the appointed time will furnish two portrait type photographs of approximately $2\frac{1}{4}$ x $2\frac{1}{2}$ inches in dimension.

Eligibility

Students who do not maintain acceptable grade averages will not be permitted to participate in varsity athletics, dramatics, debate, and other extra-curricular activities of the College.

Minimum Residence Requirement

An undergraduate student must earn at least 48 quarter hours in residence 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, Industrial Arts, Dietetics, Home Economics, Business Education, Elementary Education, Physical Education for Men, Physical Education for Women, English, Foreign Languages, Speech and Drama, Music, Science, Mathematics, and Social Studies.

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 (Distributive) Major; (c) Elementary Education Major.

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 29.
- (b) Major courses required in field of specialization and not to exceed 72 hours.
- (c) One or two minors with a minimum of 24 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) Sufficient electives to complete 192 hours of academic credit.
- (e) Six hours of physical exercise, three hours in the freshman year and three hours in the sophomore year.

General Secondary (Distributive) Major

Students who take the General Secondary (Distributive) 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 29.
- (b) Minimum of 36 hours in each of three subject matter fields, (or) minimum of 24 hours in each of four subject matter fields.
- (c) Sufficient electives to complete 192 hours of academic credit.
- (d) Six hours of physical exercise, three hours in the freshman year and three hours in the sophomore year.

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 29.
- (b) Major courses listed on Page 60, plus adequate preparation in content courses recommended by the student's adviser.
- (c) Sufficient electives to complete 192 hours of academic credit.
- (d) Six hours of physical exercise, three hours in the freshman year and three 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 and Drama, Foreign Languages, or a combination; and Business Education.

Major and Minor Plan

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 30.
- (b) Major courses required in field of specialization not to exceed 72 hours.
- (c) A minor with a minimum of 24 hours outside the major.
- (d) Sufficient electives to complete 192 hours of academic credit.
- (e) Six hours of physical exercise, three hours in the freshman year and three hours in the sophomore year.

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. Additional requirements are given on Pages 26 and 27, and in the section titled, Description of Courses.

Freshman Year

COURSE NUMBER	COURSE TITLE	HOURS	CREDIT
Hum. 1,2,3	The Basic Course in Humanities	- - - -	12
Sci. 3a	Introduction to Physical Science	- - - -	4
Sci. 3b	Introduction to Biological Science	- - - -	4
Ed. 25	General Psychology	- - - -	4
Eng. 4a	Elementary English Composition	- - - -	4
P. E. 61	Personal Hygiene	- - - -	4
P. E.	Physical Activity (Courses to be selected)	- - - -	3
			Total Hours 35

Sophomore Year

COURSE NUMBER	COURSE TITLE	HOURS	CREDIT
S. S. 81	Social Relations	- - - -	4
S. S. 82	American Life and Institutions	- - - -	4
S. S. 83	Contemporary World Civilizations	- - - -	4
Ed. 77	Psychology of Childhood and Youth	- - - -	4
Ed. 85	Community Life and Problems	- - - -	4
P. E.	Physical Activity (Courses to be selected)	- - - -	3
			Total Hours 23

Junior and Senior Years

COURSE NUMBER	COURSE TITLE	HOURS	CREDIT
Ed. 105	American Education	- - - -	4
Ed. 151	Student Teaching	- - - -	8 to 16
	Observation and Methods Courses	- - - -	8
Ed. 214	The Elementary School	- - - -	4
	(or)		
Ed. 216	Secondary Education	- - - -	4
Ed. 295	Philosophy of Education	- - - -	4
			Total Hours 28 to 36

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 Humanities	12	
S. S. 81	Social Relations	4	
S. S. 82	American Life and Institutions	4	
S. S. 83	Contemporary World Civilizations	4	
Sci. 3a	Introduction to Physical Science	4	
Sci. 3b	Introduction to Biological Science	4	
Ed. 25	General Psychology	4	
Eng. 4a	Elementary English Composition	4	
P. E. 61	Personal Hygiene	4	
P. E.	Physical Activity (Courses to be selected)	6	
		Total Hours	50

Student Teaching

Student teaching assignments are made in the Ernest Horn Elementary and College High School, campus laboratory schools, and in cooperating public schools in the state. There are three phases in the program: (a) the study of teaching methods and procedures; (b) observation and directed participation; (c) teaching.

All assignments for student teaching are made with the approval of the Director of Student Teaching. Before assignments are made, students must have the health, personal characteristics, and the professional attitudes considered essential for successful teaching, and must have completed the prerequisite courses in methods and observation.

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.

Graduate Program

Colorado State College of Education offers graduate study leading to the degrees of Master of Arts and Doctor of Education. It also provides an academic recognition beyond the master's degree in the form of an Advanced Graduate Diploma of Specialization. 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. The first Advanced Graduate Diploma of Specialization was conferred in 1946.

Organization

Each of the instructional divisions of the college is represented on the Graduate Council. The Graduate Council is the legislative body of the Graduate School.

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 and Doctor of Education. Before receiving either 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

All graduate students admitted to candidacy for a degree after June 1, 1947, are subject to the regulations given in this section. Students who have not exceeded the time limits and who have been admitted to candidacy prior to June 1, 1947, will follow the rules in force at the time of their admission to candidacy.

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 and Doctor of Education and the Advanced Graduate Diploma of Specialization 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 or diploma.

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 Advanced Diploma of Specialization, the student must possess the master's degree from an acceptable graduate school, apply for admission, and present transcripts of all previous academic credits.

For admission to graduate courses applicable to the degree of Doctor of Education, the student must possess the master's degree from an acceptable graduate school, apply for admission, and present transcripts of all previous academic credits. If these records do not show high quality of past academic achievement, 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 as unclassified graduate students until the Graduate Council is able to determine their qualifications for admission to candidacy for the degree.

Registration

For those students who have applied for admission and who have filed their transcripts, the Director of the Graduate School appoints a major professor, who aids the student in planning a unified program and who acts as the student's 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 until an evaluation of their transcripts is possible. When the student is admitted to full graduate standing, 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. 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.

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 an English Usage Test will be required and such other objective tests as the Graduate Council may deem important for beginning graduate students.

English Style-Form Standards

The student's written material, which is to be filed with the Director of the Graduate School, must conform with the "English Style-Form Standards." This bulletin is available for purchase in the college bookstore.

Course Load and Credit

The maximum course load for credit applicable to a degree is twelve quarter hours in the eight weeks summer session and sixteen quarter hours during the regular academic year. A general grade average of at least 3.7 must be maintained for graduation. In the computation of this average a mark of "A" counts 5, "B" counts 4, and "C" counts 3. No graduate credit will be allowed for courses in which the grade is below "C".

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

Only eight quarter hours earned in one-hour unit courses may be applied toward any graduate degree or diploma.

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.

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

Courses for Seniors

Senior students, who are within eight 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.

Master of Arts Degree

The Master of Arts degree is offered in the seven instructional divisions of the college, with majors in each division as follows: Division of the Arts (Fine Arts, Home Economics, Industrial Arts); Division of Education (Business Education, Educational Administration, Educational Psychology, Secondary Education, Elementary Education, Supervision in Elementary Education); Division of Health (Physical Education for Men, Physical Education for Women); Division of the Humanities (English, Speech and Drama); Division of Music; Division of the Sciences (Biological Science, Mathematics, Physical Science); Division of the Social Studies (History, Social Studies—Economics, Geography, History, Political Science, Sociology).

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, (2) has achieved a 3.7 grade average or better, (3) has satisfactorily demonstrated proficiency in English Usage and has satisfied all the matriculation requirements of the college.

The student failing to meet the above requirements will be continued on probation for a second quarter. In the event he does not meet the requirement 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-two 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.

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 credits may reduce load, but it will not reduce the residence requirements of the Graduate School, i. e., four full summer sessions or their equivalent (thirty-two 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."

Thesis for the Degree

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 approval will be given after the student has completed at least twelve hours of course credit of which the "300" course will represent four hours.

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 one-half of the graduate credit for the degree of Master of Arts must be in the field of the major.

Wherever possible within the framework of the above rules, the student majoring in content fields may be required by the Director of the Graduate School to enroll for courses in education or psychology which emphasize contemporary trends in those areas; on the other hand, students majoring in education and psychology may be required by the Director of the Graduate School to enroll in graduate courses in content fields outside the graduate major.

Professional Requirements

All students receiving a graduate degree or diploma of specialization from Colorado State College of Education must have at least thirty quarter hours of undergraduate and graduate credit in education, educational psychology, and related fields regardless of the division in which they major.

Social Studies Major

In the division of the Social Studies, besides the major in History, a *teaching major* in "Social Studies" is offered. The 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 24 hours required for the master's degree, at least 12 must be in the fields of the Social Studies outside the area of concentration. Concentrations are allowed in Economics, Geography, History, Political Science, and Sociology.

Detailed Requirements for the Degree

(For Students in the Regular Academic Year)*

All the general requirements for a graduate degree that have heretofore been mentioned apply to the master's degree. In addition, the graduate student in the regular year shall:

1. Earn forty-eight quarter hours of graduate credit, one-third of which shall be in courses in the student's major open only to graduate students (courses numbered 300 or above).

2. Plan with the major professor a unified program which will contain, in the first quarter in residence, the required "300" course, one graduate course taught by the major professor, and eight hours of other graduate course credit. In subsequent quarters the student will include in his course programs twelve quarter hours of credit in courses in the major open only to graduate students.

*Students attending the Summer Sessions only should consult the Graduate Bulletin.

3. If approved for thesis, register for four hours of thesis credit (course 399) in each of the second and third quarters. Registration for theses in absentia will not be permitted. Acceptance of the invitation to present a thesis must be made by the student during the second quarter in residence, and a typewritten outline of the proposed study 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 third week of the second quarter. Other rules governing the thesis are:

(a) It shall conform to the standards given in the "English Style-Form Standards."

(b) It shall be presented to the major professor by the end of the sixth week of the third quarter.

(c) At least two weeks before the end of the quarter in which he expects to graduate, the student will 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. 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 \$8.00 is made for binding the four copies.

(d) Each bound copy of the thesis must contain 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.

4. If not writing a thesis, file in the office of the Graduate School three typewritten reports presented as partial requirements of the courses in the major open only to graduate students.

5. Pass a written comprehensive examination in the major field. 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 evaluated by the major professor shall be filed in the office of the Graduate School at least ten days before the end of the last quarter in residence.

6. Apply for a list of graduation requirements not later than the final week of the second quarter in residence.

Creative Project in Lieu of a Thesis

In harmony with the policies of many of the best institutions of higher learning, the Graduate School will recognize a creative project in the fields of Literature, Fine Arts, 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 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.

Advanced Graduate Diploma

The earning of this diploma does not include the restrictions involved in the longer program leading to the doctor's degree. The objective of the Graduate School in offering this diploma is to give the student the opportunity for professionalized specialization in certain of the subject matter areas in the elementary and secondary school and in other phases of education. The student earns thirty-six hours of resident graduate course credit above the master's degree. At least one-half of this required credit must be in the area of specialization. Course work applicable to this diploma is offered only in the summer sessions.

Doctor of Education Degree

The program for the degree of Doctor of Education is a program of alternating campus and off-campus activity, and is an in-service type of advanced professional education. The doctoral program is divided into two parts. *One calls for the completion of certain courses on the campus during the summer sessions. The*

other looks to the completion of a high quality of practical research done by the student between summer sessions, while the student is engaged in his professional activities. *Only those persons who are actually employed in the education field are permitted to enroll for study toward the doctorate.*

The Graduate School offers to a limited number of qualified students the opportunity of earning the degree of Doctor of Education (Ed.D.) and reserves the right to change its requirements from time to time.

Course Program

Each student selects an area of specialization (major) in the field of Education, and a supporting area (minor) in Education. Normally, the two field studies 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, an English Usage test and an objective test in Education and Psychology will be required. All new students are required to take these two tests even though they are not required to enroll for Ed. 400.

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 field studies is not included in this requirement.

A maximum of twenty-four quarter hours of graduate course credit may be required by the Director of the Graduate School in areas outside the field of Education. A statement of these requirements will be made by the Director of the Graduate School after a conference with the student.

Majors may be taken in Educational Administration, Educational Psychology, Elementary Education, or Secondary Education.

Minors may be earned in all of the fields in which the major is offered and in Curriculum, Philosophy of Education, Personnel and Guidance. Personnel and Guidance cannot be used as a minor for majors in Educational Psychology.

Upon petition to 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 minor.

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 twenty-four quarter hours of resident graduate course credit, shall have passed satisfactorily the Preliminary Oral Examination, shall have completed Field Study Number 1, shall have satisfactorily defended this Field Study in an oral examination, and shall have completed all matriculation requirements. As a part of the matriculation 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 Preliminary Oral Examination, the English Usage test and an objective test in Education and Psychology; and (4) from the results of the examination on Field Study Number 1. Admission to candidacy will be by action of the Graduate Council upon recommendation of the student's major professor.

Time and Residence Requirements

The maximum time limit for earning the doctor's degree is eight summers. If the time limit is to be exceeded, all necessary adjustments must have the approval of the Director of the Graduate School.

The residence time requirement for the degree of Doctor of Education is six full summer sessions, or their equivalent. Registrations in the pre- or post-sessions will be counted as meeting this residence time requirement only when the student is enrolled in the regular summer session either immediately preceding the post-session or 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 below six full summer sessions, or their equivalent. 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 approved by 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.

Advisement

Upon receipt of a statement of the prospective student's field of interest, the Director of the Graduate School assigns him to a member of the graduate 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, the field studies, and the examinations.

At the request of the major professor, a research professor may be appointed for directing a particular field 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 field study.

Specific Requirements

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

1. Earn ninety-six quarter hours of graduate credit beyond the master's degree. Twenty-four hours of this credit 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 their equivalent.

3. Present two field studies of a practical nature, for each of which the student will receive twelve quarter hours of credit. The student registers for these field studies during the regular academic year. The preliminary outlines for these studies are prepared under the supervision of the major professor and a research committee of three appointed for each study by the Director of the Graduate School. The student will register for the preliminary outline as a part of his regular summer session load. No registrations in absentia, or in pre- or post-sessions, will be permitted.

Prior to the end of the sixth week of the quarter, the student presents the detailed outline to this committee for criticism and suggestions. When the committee has approved the outline, the student prepares five copies—one copy for each member of his committee, one for the files of the Graduate School, and one for the student himself. It is the duty of the major professor to obtain the required signatures. No student may register for the outline of his second field study until he has been admitted to candidacy for the doctor's degree, except by permission of the Director of the Graduate School together with the written recommendation of the major professor.

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

(a) Preliminary Oral Examination in the General Fields of Education and Psychology. Normally, this examination will take place in the second summer session. It is the duty of the student to present a written request to the office of the Graduate School for the examination. This request must first be approved by the

major professor before being presented. The Director of the Graduate School will set the time for the examination and will appoint an examining committee, one member of which will be selected from outside the Division of Education.

(b) Oral Examinations in Defense of the Field Studies. When a student has satisfied his research committee that he has completed a field 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 a committee composed of: (1) his research committee and (2) at least one representative of the graduate faculty who is not a member of the Division of Education. The field 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.

(c) Comprehensive Written Examinations. These will be given in the final quarter of residence and will test the student's comprehension of the materials in his major and minor areas. The major professor will be in charge of the examinations. He will prepare and evaluate the examination in the student's major, and will have other members of the graduate faculty prepare and evaluate the examination covering the minors. The examination papers after being evaluated shall be filed with the student's records in the office of the Graduate School.

5. Pay \$27 for the publication of each field study. The field 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 an extra copy of the abstract of each study. This abstract cannot be more than 1500 words and must include a vita. It is in addition to the copies of the abstract which are bound with the typewritten copies of the field 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 field study. At least four copies of each field 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.

Description of Courses

Division of the Arts

The Division of the Arts includes Fine Arts, Home Economics, and Industrial Arts. A student may major or minor in any one of these fields.

FINE ARTS

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) F. A. 1, 2, 4, 6, 8 (or 17), 11, 13, 103a (or 103b), 116, 123, 124, 205, 221a, 221b; (C) Twenty hours of electives in Fine Arts, 12 of which will be in one of these fields: drawing and painting, modeling and sculpture, crafts, design, or commercial art; (D) Students preparing to teach in elementary schools should substitute F. A. 127 for F. A. 123; (E) One minor outside the division; (F) Electives outside the division to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: F. A. 1, 11, 13, 17, 103a, 116, 124. A course in the history of art is advised.

Bachelor of Arts Degree (Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) Seventy-two hours in Fine Arts; (C) At least one minor outside the division; (D) Electives outside the division to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: F. A. 1, 11, 13, 17, 103a, 116, 124.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

1. DRAWING. *Four 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. *Four hours credit.*
Prerequisite, F. A. 1 or the 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. *Four hours credit.*
The fundamentals of beginning drawing specifically applied to the needs and methods of elementary school teachers.
4. FIGURE CONSTRUCTION. *Four hours credit.*
Prerequisite, F. A. 1 or the 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. *Four hours credit.*
Prospective art teachers are introduced to the problems of art education, philosophy, and child psychology so that they may work more purposefully throughout the period of their professional preparation.
8. MODELING AND CARVING. *Two or four hours credit.*
Creative design in the field of small sculpture. Modeling for terracotta, various techniques. Sculpture with and without armature, plaster casts, carving in plaster, stone and wood. This course may be continued for four hours as F. A. 8a.
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 or four hours credit.*
Study of letter forms, manuscript writing, poster, display, 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.

DESCRIPTION OF COURSES—FINE ARTS

14. TEXTILE DESIGN. *Two hours credit.*
Prerequisite, F. A. 11. Practical experience in designing textiles including blockprint, stencil, stitchery, batik, and silkscreen.
17. POTTERY. *Two or four hours credit.*
Creative experience in the design and construction of pottery. Various methods are studied. Glazing, casting, firing.
20. ART APPRECIATION. *Four 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.
24. ELEMENTARY SCHOOL ART. *Four hours credit.*
A beginning course in methods, content and materials to be used in teaching art education in the elementary school.
- 103a. INTRODUCTION TO WATERCOLOR PAINTING. *Four hours credit.*
Prerequisite, F. A. 1 or the equivalent.
- 103b. INTRODUCTION TO OIL PAINTING. *Four hours credit.*
Prerequisite, F. A. 1 or the equivalent.
105. COLOR THEORY. *Four hours credit.*
A study of color relationships and organizational principles pertinent to the color unit.
108. CLAY MODELING. *Four hours credit.*
The theory and techniques of modeling and casting.
110. COMMERCIAL DESIGN AND ILLUSTRATION. *Four hours credit.*
Prerequisites, F. A. 1 and 4. Procedures and techniques of modern commercial art.
114. DESIGN IN TEXTILES. *Four hours credit.*
Experience in the design and methods of decorating textiles; block print, stencil and silk screen work.
116. CRAFTS PROCESSES AND DESIGN. *Two or four hours credit.*
Prerequisite, F. A. 11. Creative experience in a variety of crafts including leather craft, simple woodwork and metalcraft, plastics, and others.
- 116g. 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.

DESCRIPTION OF COURSES—FINE ARTS

117. POTTERY. *Four 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. *Two 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. *Four hours credit.*
Prerequisite, F. A. 13. Advanced poster techniques, including stencil and airbrush. Principles of display applied to organization of exhibit material and modern window setting.
123. ART IN THE SECONDARY SCHOOL. *Four 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. *Four hours credit.*
Methods of teaching art at elementary school levels. Organization of work units and practical creative experience in a wide variety of media.
127. ART CRAFTS IN THE ELEMENTARY SCHOOL. *Four 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. *Four 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.
132. CARTOON AND CARICATURE. *Two hours credit.*
Prerequisites, F. A. 1 and 4. The cartoon figure in commercial art. Principles, techniques, and construction. Pen and ink.
- 135a,b,c. LIFE CLASS. *Two hours credit each quarter.*
Opportunity to draw from the human figure.
136. TECHNIQUES AND MATERIAL. *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. *Four hours credit.*
A general study of the forms of commercial design and illustration with specific emphasis upon merchandising and advertising media.
202. ADVANCED COMPOSITION. *Four hours credit.*
Prerequisites, F. A. 1 and 2. Advanced problems in pictorial and graphic composition.

DESCRIPTION OF COURSES—FINE ARTS

203. WATERCOLOR PAINTING. *Four hours credit.*
Prerequisites, F. A. 1, 2, and 103a, 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.
205. COLOR THEORY. *Four hours credit.*
Prerequisite, F. A. 11. An extensive study of the field of color as one of the major design elements.
209. PRINT MAKING. *Four 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.
212. PROBLEMS IN DESIGN. *Four 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.
215. SCENE DESIGN AND STAGECRAFT. *Four hours credit.*
(See also Speech 114). 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.
- 216g. ADVANCED WEAVING. *Four hours credit.*
Prerequisite, F. A. 116g or equivalent. A study of the problems and various processes of weaving. Emphasis on original designing of patterns for color and texture.
220. OIL PAINTING. *Four hours credit.*
Prerequisites, F. A. 1, 2, 103b, or the equivalent. This course seeks to develop individual expression in creative painting, and technical mastery of the medium.
- 221a. ART HISTORY I. *Four hours credit.*
A study of the development of art from prehistoric time to and including the Gothic Age.
- 221b. ART HISTORY II. *Four hours credit.*
A study of the development of art from the Renaissance to the present day.
225. FIGURE PAINTING. *Four hours credit.*
Painting in oils from the human figure.
- 233a,b,c. INDIVIDUAL PROBLEMS IN FINE ARTS. *Two or four hours credit each quarter.*
Open to advanced students who may pursue creative work according to their individual needs.

DESCRIPTION OF COURSES—FINE ARTS

234. ADVANCED SCENE DESIGN. *Four hours credit.*
Prerequisite, F. A. 215 or equivalent. The techniques and problems of scenic design involving the aesthetic qualities of settings, costumes, properties, and lighting.
264. INDUSTRIAL ARTS DESIGN. *Four hours credit.*
Principles of design applied to the various areas of industrial arts.
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.*
Prerequisites, F. A. 105, 205, or equivalent. An intensive study of color and its application as a design element.
308. PLASTIC DESIGN. *Two or four 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 MATERIAL (Alternate Summer Sessions only). *Four hours credit.*
Credit may also be obtained in Education. A laboratory course where the student selects concepts needing illustration from instructional problems and produces audio-visual materials to illustrate these concepts. Materials produced are charts, graphic materials, models and exhibits, slides, recordings, and film-strips.
309. 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.
313. GRAPHIC LAYOUT AND DESIGN. *Four hours credit.*
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. *Two or four hours credit.*
A study of design and arts and crafts adapted to secondary school levels.
317. CERAMICS. *Four 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. *Two or 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.

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 curricula and significant units for teaching art.

399. THESIS. *Eight hours credit.*

HOME ECONOMICS

Students who receive the Bachelor of Arts degree with a teaching certificate in Home Economics will qualify for certification by the State Board for Vocational Education. The Dietetics major meets internship requirements prescribed by the American Dietetics Association.

Bachelor of Arts Degree (With Teaching Certificate)

Home Economics MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) H. E. 70, 71, 72, 73, 74, 77, 78, 180, 181, 183, 188, 191a, 191b, 198, 199, 261, 275, 284, 293, 295; (C) Econ. 104; Ed. 228a, 261, 272; F. A. 116; (D) Science minor of 24 hours including: Bot. 122; Chem. 41a,b,c; Phys. 65, and an additional four hours of laboratory science. Programs will be planned with the student's adviser.

MINOR

Courses required are: H. E. 70, 72 (or 73), 74, 94, 191a, 191b, 192; four hours of electives.

Dietetics MAJOR

The following program is required: (A) Common Courses listed on Page 29, (B) H. E. 70, 71, 72, 73, 74, 75, 77, 78, 180, 181, 187, 199, 261, 275, 282, 284, 285, 286, 289, 293, 297; (C) Ed. 278; (D) Science minor: Bot. 122; Chem. 41a,b,c, 48, 247; Zool. 117. Programs will be planned with the student's adviser.

Bachelor of Arts Degree
(Liberal Arts)

Home Economics

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) H. E. 70, 71, 72, 73, 74, 77, 78, 180, 181, 183, 188, 191a, 191b, 198, 199, 275, 284, 293, 295; (C) A 24 hour minor outside the division; (D) Electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: H. E. 70, 72 (or 73) 74, 94, 191a, 191b, four hours of electives.

Dietetics

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) H. E. 70, 71, 72, 74, 75, 77, 78, 180, 181, 187, 199, 275, 282, 284, 285, 286, 289, 297; (C) Science minor: Bot. 122; Chem. 41a,b,c, 48, 247; Zool. 117. Programs will be planned with the student's adviser.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

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

This course is planned to develop the student's interest in personal appearance. Good grooming is stressed.

71. TEXTILES. *Four hours credit.*

A study of the nature and limitations of commonly used fabrics; the design of weaves and their wearing qualities. Testing of both well-known and recently developed fabrics in the textile field.

DESCRIPTION OF COURSES—HOME ECONOMICS

72. FUNDAMENTALS OF CLOTHING CONSTRUCTION. *Four hours credit.*
Instruction in the care and operation of sewing machines and their attachments. A commercial pattern is used in constructing a dress and in making a child's garment. The student is encouraged to remodel a garment. Four hours laboratory per week required.
73. DRESS DESIGN AND CONSTRUCTION. *Four hours credit.*
To develop the ability to work with fabrics and create attractive costumes. The student will select and make an appropriate dress for afternoon or street wear. Four hours laboratory per week required.
74. ELEMENTARY NUTRITION. *Four hours credit.*
To enable students to select food suited to their needs in the light of the newer knowledge of nutrition and individual physical fitness.
75. ELEMENTARY DIETETICS. *Four hours credit.*
Prerequisite, H. E. 74. Diets for families of various income levels are planned. The diet of the young child both in group feeding situations and in relation to the diet of the family is studied. Ten hours laboratory experience in planning and supervising the noon meal for the nursery school children are arranged during the quarter. Emphasis is given to recent developments in human nutrition.
77. COOKERY AND TABLE SERVICE. *Four hours credit.*
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 to majors only except by special permission. Three single and two double periods per week.
78. FOOD PREPARATION AND SERVICE. *Four hours credit.*
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. Three single and two double periods per week.
94. ELEMENTARY COOKERY AND FOOD SERVICE. *Four hours credit.*
This course is planned for Home Economics minors but may be selected by any student desiring more knowledge of the fundamental processes of cookery and food marketing. Simple meals and party refreshments will be planned, prepared and served. Three single and two double periods weekly.
180. FAMILY RELATIONSHIPS. *Two hours credit.*
The relationship of the individual to his immediate human contacts. The establishment of the successful American home.
181. CHILD CARE AND TRAINING. *Two hours credit.*
A study of the child as an integrated personality; his physical, emotional, and social development as affected by the home and other socializing agencies. Observation of nursery school children.
183. HOME NURSING. *Four hours credit.*
Materials and methods of caring for the sick in the home.

DESCRIPTION OF COURSES—HOME ECONOMICS

187. INSTITUTION MANAGEMENT. *Four hours credit.*
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 *Four hours credit.*
Prerequisites, H. E. 72, 73, or equivalent. This is a study of the development of the fashions of the day traced through an historic background. Some work is given in sketching the fashion figure before taking up the creative problems of designing and making a costume.
- 191a. HOME MANAGEMENT THEORY. *Four hours credit.*
A study of the techniques of efficient home-making. Emphasis is given to economical management in terms of time, energy, and money.
- 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 the desirable standards of home living.
192. METHODS IN THE TEACHING OF HOMEMAKING. *Four 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.*
Prerequisites, H. E. 77, 78, or the 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 modest American home. Two single and two double periods weekly.
199. PRESERVATION OF FOOD. *Two hours credit.*
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. Observations of commercial methods of food preservation. One single and one double period per week.
261. NURSERY SCHOOL. *Four hours credit.*
A course presenting the theories, research, and best practices for the education of children in schools from the age of two years until their entrance to first grade. The noon meal for the nursery school children is planned and assistance given in the preparation and service of the food. Three hours laboratory per week arranged.
275. THE HOME AND ITS DECORATION. *Four hours credit.*
A study of suitable furnishings for homes of various types. Advanced students prepare illustrative material with extensive research on types of architecture, furniture and fabrics of historical periods.

DESCRIPTION OF COURSES—HOME ECONOMICS

276. ADVANCED DIETETICS. *Four hours credit.*
Prerequisite, H. E. 74. Recent research in human nutrition is studied. Application of the newer knowledge of nutrition to the planning of individual and group dietaries. Animal feeding experiments developed as individual research problems.
279. PRESERVATION OF FOOD. *Two hours credit.*
Prerequisites, H. E. 77, 78, or equivalent. Laboratory practice in home methods of food preservation. Discussions and observation of commercial canning methods and preservation of food by the quick freeze and dehydration processes. One single and one double period per week.
282. NUTRITION IN DISEASE. *Four hours credit.*
Prerequisite, H. E. 74. A study of the fundamental principles involved in the treatment of disease through diet. Ten hours laboratory during the quarter required.
284. DEMONSTRATION COOKERY. *Two hours credit.*
Prerequisite, H. E. 77, 78, or equivalent. Practice in the techniques of demonstrating before audiences the preparation of food. One single and one double period per week.
285. EXPERIMENTAL COOKERY. *Four hours credit.*
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. Two single and two double periods per week.
286. INSTITUTION COOKERY. *Four hours credit.*
Prerequisite, 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. The facilities of the student dining halls and the faculty club are available for laboratory assignment. Two single and two double periods per week.
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.
290. HOUSEHOLD ECONOMICS. (Summer Session only). *Four hours credit.*
Discussion of home-making as a business. Consumer problems of the homemaker. Criteria for the purchasing of household equipment and supplies are determined.
293. ADULT EDUCATION IN HOMEMAKING. *Two hours credit.*
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.

DESCRIPTION OF COURSES—HOME ECONOMICS

295. TAILORING. *Four hours credit.*
Prerequisites, H. E. 72, 73, or equivalent. The making of tailored suits and coats. A remodeling problem may also be used. Special emphasis is placed on tailored finishings. Four hours laboratory per week required.
297. INSTITUTION FURNISHINGS. *Two hours credit.*
Projects involving the selection and arrangement of furnishings needed in institutions, with emphasis on the artistic as well as on durability.
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. CHILD WELFARE (Summer Session only). *Four hours credit.*
A study of the effects upon the child of heredity and the environment in the home and in society.
302. TEACHING PROBLEMS IN HOMEMAKING. (Summer Session only). *Four hours credit.*
Modern methods and trends in homemaking education. Problems of the individual teacher will be studied and assistance given the student in the working out of practical solutions.
305. PROBLEMS IN INTERIOR DECORATION. (Summer Session only). *Four hours credit.*
Prerequisites, F. A. 11, 205, or the equivalent. The application of art principles to the decoration of the home.
306. HISTORY OF COSTUME. *Four hours credit.*
An intensive study of the development of costume through the ages and its influence on the designs of present-day costumes. The development of the designers of Paris and the recent achievements in dress design by students of art in our own country.
322. INDIVIDUAL STUDIES IN HOME ECONOMICS. *Two or four hours credit for one problem; a maximum of eight hours credit toward the degree of Master of Arts is permitted.*
The course provides for independent study, particularly in those phases of a field of specialization not provided for in formal class courses.
- 333a,b. INDIVIDUAL PROBLEMS IN HOME ECONOMICS. *Four hours credit each quarter.*
371. ADVANCED TEXTILES. (Summer Session only). *Four hours credit.*
Prerequisite, H. E. 71 or equivalent. A study of recent textile developments. Problems of individual interest are developed.
385. RESEARCH IN FOODS. *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 some problem of food preparation.
399. THESIS. *Eight hours credit.*

INDUSTRIAL ARTS

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) I. A. 34, 41a,b, 46a,b, 50a,b,c, 55w, 155y,z, 61a,b, 161c, 153a; (C) Eight hours selected from I. A. 235, 236, 238, 240a; (D) Students without a high school background in fine or industrial arts may elect when possible: F. A. 111 (or I. A. 264), F. A. 17, 116; (E) One minor outside the division; (F) Electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: I. A. 34, 50a,b, 55w, 155y,z, 61a,b, 161c; four hours of electives. Course substitutions will be made for students who expect to become craft counselors, playground instructors, etc.

In accredited high schools, teachers are required to have a minimum of seven and one-half hours of college credit in the field of industrial arts in which they teach.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

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.
- 41a,b,c. ELEMENTS OF PRINTING. *Two or four hours credit each quarter.*
Experience with fundamental operations used in a school print shop.
- 46a,b. BOOKBINDING. *Two or four hours credit each quarter.*
Basic processes ranging from elementary to advanced binding. Part of course devoted to work with limited equipment. Bookcrafts and leatherwork may be studied.

DESCRIPTION OF COURSES—INDUSTRIAL ARTS

- 50a,b,c. WOODWORK. *Two or four hours credit each quarter.*
Courses "a", "b", and "c" progress from elementary to more advanced work. Study of woods, materials and supplies parallel development of skills.
- 54a,b. WORKSHOP IN INDUSTRIAL ARTS FOR ELEMENTARY TEACHERS. *Two or four hours credit each quarter.*
Development of basic skills through elementary work in wood, metal and other materials easy to get. Adaptation of work to classroom or small shop. Creative work with limited equipment.
- 55w,x. METALWORK. *Two or four hours credit each quarter.*
Course "w" is elementary art metal, course "x" is general metal. Opportunity is provided for the designing and construction of projects in a variety of materials.
- 61a,b. PRINCIPLES OF DRAFTING. *Two or four hours credit each quarter.*
Course "a" is orthographic projection and working drawing; course "b" is pictorial drawing.
137. WOODFINISHING AND UPHOLSTERY. *Two or four hours credit.*
Techniques and processes in woodfinishing and upholstery. Study of materials.
- 141a,b,c. INTERMEDIATE PRINTING PROBLEMS. *Two or four hours credit each quarter.*
Prerequisites, 41a,b,c, or equivalent. A continuation of basic printing problems for teachers of either junior high or secondary schools.
- 146c. BOOKBINDING. *Two or four hours credit.*
Prerequisites, I. A. 46a,b or equivalent. Advanced binding problems.
147. PROBLEMS IN LEATHERWORK. *Four hours credit.*
Development of basic techniques in leatherwork. Tool designing and tool making for camps and school shops. Study of tanning, course organization, and relation of work to other areas.
148. GENERAL PLASTICS. *Two or four hours credit.*
An opportunity to become proficient in working with the many kinds of plastics for either a unit or a general shop.
149. BOOKBINDING FOR SCHOOL LIBRARIANS. *Four hours credit.*
Opportunity to develop skills in library binding and repairing. A study of handmade equipment, purchasing of supplies, and economical ways of binding books.
- 150d. WOODWORK. *Two or four hours credit.*
Prerequisites, I. A. 50a,b or equivalent. Emphasis on machine use.
- 151a,b. EQUIPMENT AND MAINTENANCE PROBLEMS. *Four hours credit in each area.*
Course "a" is upkeep and repair of woodworking tools and machines; course "b" is maintenance, repair and construction of metalworking equipment. Admission by permission of instructor.

DESCRIPTION OF COURSES—INDUSTRIAL ARTS

- 153a,b. WOODTURNING. *Two or four hours credit each quarter.*
Prerequisite, I. A. 50a or the equivalent. Development of basic skills in woodturning and the use of the lathe to supplement bench woodwork.
155. INTERMEDIATE ART METAL PROBLEMS. *Four hours credit.*
Prerequisite, I. A. 55w. A continuation of the basic problems and processes taught in 55w. Use of copper, nickel silver, sterling silver and other metals commonly worked in the average junior or senior high school.
- 161c,d. PRINCIPLES OF DRAFTING. *Two or four hours credit each quarter.*
Course "c" is elementary architectural drawing; course "d" is machine drawing.
163. GENERAL SHOP ELECTRICITY. *Two or four hours credit.*
Elementary principles of electricity that are applicable to projects on the junior high school level, and an opportunity to construct projects that use these principles. Methods of organizing a unit.
233. MATERIALS OF INDUSTRY. *Four 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 presented.
234. HISTORY OF INDUSTRIAL ARTS. *Four hours credit.*
A study of the movements of Industrial Arts, divided into two periods: from their beginnings to 1870, and from 1870 to 1917.
235. PHILOSOPHY OF INDUSTRIAL ARTS. *Four hours credit.*
Prerequisite, I. A. 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. *Four hours credit.*
The purposes and philosophy underlying the organization of general shops.
238. CURRENT THEORY AND PRACTICE IN THE ARTS. *Four 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.
- 240a. COURSE ORGANIZATION IN INDUSTRIAL ARTS. *Four 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.
- 240b. DEVELOPMENT OF INSTRUCTION AIDS IN INDUSTRIAL ARTS. *Four hours credit.*
Prerequisite, I. A. 240a or equivalent. Visual aids, instruction sheets, and instructional devices will be planned and developed. The student will select, plan, and construct, where appropriate, various instructional aids.

DESCRIPTION OF COURSES—INDUSTRIAL ARTS

241. THE PLACE OF THE ARTS IN GENERAL EDUCATION. *Four 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. *Two or four hours credit each quarter.*
Prerequisites, I. A. 41a,b or equivalent. An advanced course which treats printing from the standpoint of design. Offers opportunity to do creative work beyond ordinary commercial printing.
248. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN BOOKBINDING. *Four hours credit.*
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.
254. THE ARTS IN RECREATION. *Four hours credit.*
The organizing of various types of craft work for a recreational program. Problems of finance, working with limited equipment, meeting interests of different age groups. Laboratory opportunity to develop proficiency.
255. THE USE OF NEW MATERIALS. *Four hours credit. (Summer Session only).*
A study of the newer materials of industry and method of adapting them for use on both junior and senior high school levels.
256. ADVANCED ART METAL. *Two or four hours credit.*
Prerequisite, I. A. 55w or equivalent. Advanced processes in art metal and jewelry work.
264. INDUSTRIAL ARTS DESIGN. *Four hours credit.*
Principles of design as they apply to the several areas of industrial arts.
300. INTRODUCTION TO GRADUATE STUDY IN INDUSTRIAL ARTS. *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. *Four hours credit.*
An opportunity for all students doing independent research to report and receive criticism.
302. A CRITIQUE OF MODERN INDUSTRIAL ARTS. (Summer Session only). *Four hours credit.*
A course in which several instructors participate. Every effort is made to bring in men of divergent points of view to present and defend ideas of common interest to today's industrial arts teacher.
322. INDIVIDUAL STUDIES IN INDUSTRIAL ARTS. *Credit toward the degree of master of arts limited to eight hours.*
Opportunity for independent study not provided in regular classes. Open only to qualified students. Typewritten paper required.

DESCRIPTION OF COURSES—INDUSTRIAL ARTS

- 333a,b,c. INDIVIDUAL PROBLEMS IN INDUSTRIAL ARTS. *Four hours credit each quarter.*
Open to selected students for special work not offered in regular classes.
343. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN PRINTING AND THE GRAPHIC ARTS. *Four hours credit.*
Objectives of printing and 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 PRINTING AND THE GRAPHIC ARTS. (Summer Session only). *Four hours credit.*
Prerequisite, I. A. 343. Forms and trends of design and methods by which it functions in the graphic arts. Problems and projects arising from pupil's interests. Opportunity for individual creative work.
351. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN WOODWORKING. *Four hours credit.*
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. *Four hours credit.*
Prerequisite, I. A. 351 or the equivalent. A study of the problems the specialized teacher of woodworking in secondary schools must meet.
359. TEACHING TECHNIQUES AND COURSE ORGANIZATION IN METALS (Summer Session only). *Four hours credit.*
Objectives, course content, and methods of teaching all phases of metal work. Industrial, social, and economic significance of metals. A study of the various types of metal shop organization.
360. PROBLEMS OF THE METAL SHOP. *Four hours credit.*
Prerequisite, I. A. 359 or the equivalent. Methods of organizing courses on both unit and general shop basis.
- 362a,b. PROBLEMS IN DRAFTING AND PLANNING. *Four hours credit each quarter.*
Objectives, course content, and teaching procedures. Drafting problems and their solution.
- 368a,b. ADVANCED ARCHITECTURAL DRAFTING (Summer Session only). *Four hours credit each quarter.*
Prerequisite, I. A. 161c or the equivalent. Home and school 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 includes the fields of Elementary Education, General Secondary (Distributive) major, School Librarianship, and Business Education.

Bachelor of Arts Degree (With Teaching Certificate)

ELEMENTARY EDUCATION

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) F. A. 124; Mus. 149; P. E. 14, 202; Eng. 121; Sci. 191; Ed. 53 (or 210), 54 (or 212), 210, 213; (C) From 65 to 73 hours of electives in art, English, geography, history, home economics, music, science, and sociology. In selecting these courses, the adviser of elementary majors should be consulted. Elementary majors will find it valuable to play simple piano accompaniments. Students may enroll for group piano instruction. Programs will be planned with the student's adviser.

MINOR

Courses required are: Ed. 210, 211, 212, 213; two of the following: F. A. 124; Mus. 149; Speech 13; Eng. 121; Sci. 191.

GENERAL SECONDARY

A General Secondary curriculum is offered for students who do not select a major in any one of the divisions. This curriculum requires four subject matter minors of at least 24 hours each in four divisions, or three subject matter minors of at least 36 hours in three divisions.

In addition, the Common Courses listed on Page 29 are required. Electives will be added to complete requirements for graduation. Programs will be planned with the adviser of general secondary majors.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

LIBRARY MINOR

Students interested in positions as teacher-librarians may minor in library science in two ways. (1)—They may take the minor entirely at Colorado State College of Education. Under this plan they will be required to take Ed. 280, 281 and 282 (the basic 12 hours of required library science courses). Besides this basic program they should take at least 12 hours from the following: Ed. 208a, 283; Speech 13; Eng. 319, Eng. 126; I. A. 149. (2)—They may take a quarter of basic required undergraduate courses in library science in the School of Librarianship of the University of Denver. This work will be transferred for the equivalent of one quarter, usually 16 credit hours. Under this plan a student will still be held for at least eight hours more of course work to be taken from: Ed. 208a, 283; Speech 13; Eng. 319, Eng. 126; I. A. 149. The adviser of this library science minor is the college Librarian.

GRADUATE STUDY

Graduates of schools of librarianship are appointed as graduate library internes. The interne will work as a member of the library staff and will take four hours of graduate credit a quarter toward a Master of Arts degree. Persons interested should write to the Librarian of Colorado State College of Education. Course work will be outlined by the student's major professor.

Description of Courses

25. GENERAL PSYCHOLOGY. *Four hours credit.*
Introducing the student to the scientific study of human behavior, with emphasis upon the growth and development of the individual within his physical and social environment.
- 26a. CAMP FIRE GIRLS' LEADERSHIP. *Two hours credit.*
Training for leadership in extra-curricular activities for girls. The course leads to the National Training Course Certificate of the Camp Fire Girls.
- 26b. 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.
- 26c. GIRL SCOUT LEADERSHIP. *Two hours credit.*
For young women interested in becoming sponsors of Girl Scout Troops.

DESCRIPTION OF COURSES—EDUCATION

30. TEACHING IN SMALL COMMUNITY SCHOOLS. *Four hours credit*
Managing the small school, organizing multiple-grade groups for instruction, and selecting and adapting learning materials and activities to wide age-range classes.
53. TEACHING READING IN THE ELEMENTARY SCHOOL. *Four hours credit.*
A beginning course in teaching reading. Required of those students who are preparing for their first student teaching assignment. Special attention is given to the problems of when the child is ready to start learning to read, the steps in beginning reading, and how to make the pupil efficient in reading in general school work.
54. TEACHING ARITHMETIC IN THE ELEMENTARY SCHOOL. *Four hours credit.*
A beginning course in teaching arithmetic. Required of those students who are preparing for their first student teaching assignment. Special attention is given to problems of developing understanding of numbers, teaching the basic combination, efficient use of the arithmetic textbook, and developing accuracy.
77. PSYCHOLOGY OF CHILDHOOD AND YOUTH. *Four hours credit.*
Prerequisite, Ed. 25 or the equivalent. The study of the physical, social, and intellectual growth and development of the pupil from pre-school age through the high school. This course meets educational psychology requirements.
85. COMMUNITY LIFE AND PROBLEMS. *Four hours credit.*
A course designed to give prospective teachers an experience in study of typical kinds of community life. Each student will elect either to participate during the term in some community activity or to make a simple type of community survey.
105. AMERICAN EDUCATION. (This course should be taken before or with Ed. 214 or Ed. 216). *Four hours credit.*
Objectives of education, techniques of educational thinking, characteristics and trends in the American school system, the general program and materials of instruction, and problems of teacher-education and welfare.
- 108f. WORKSHOP IN RADIO PRODUCTION. (Credit may also be obtained in the Division of the Humanities). *Four hours credit.*
Elements of radio speaking, acting, script writing, and production with emphasis on educational programs. Taught on a laboratory basis with actual broadcasting on local station required of students.
120. INDIVIDUAL EDUCATIONAL RESEARCH FOR SENIOR COLLEGE STUDENTS. *A maximum of eight hours credit. Two or four hours credit for one problem.*
Qualified undergraduate 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 individual study and one with the chairman of the division.

DESCRIPTION OF COURSES—EDUCATION

150a. OBSERVATION AND APPLIED TECHNIQUES OF TEACHING IN THE ELEMENTARY SCHOOL. *Four hours credit.*

Prerequisite, Ed. 105. Students who enroll in this course must have the personal and scholastic qualifications essential for a teacher. Scheduled observation and participation periods and a weekly group conference each Tuesday at 4:00 p.m., in addition to regular class study and discussion.

150b. METHODS OF TEACHING IN SECONDARY SCHOOLS. *Four hours credit.*

Prerequisites, Ed. 105, 216. A methods course in a given major area provides for a study of teaching procedures at the secondary school level. The course is offered in the following areas: Fine Arts, Industrial Arts, Home Economics, Business Education, English, Speech and Drama, Foreign Language, Mathematics, Science, Social Studies, Physical Education, and Music.

150c. OBSERVATION AND DIRECTED PARTICIPATION. *Four hours credit.*

Prerequisites, Ed. 105, 216. A course in which the student participates in supervised classroom activities and applies the methods and teaching techniques learned in Ed. 150b. Ed. 150c may be taken concurrently with Ed. 150b or during a subsequent quarter. The assignment for Ed. 150c must be made during the first quarter of the student's junior year with the designated teacher in the area in which the student teaching is to be done.

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

150e. OBSERVATION AND PARTICIPATION IN THE SECONDARY SCHOOL (MUSIC). *Three hours credit.*

150g. METHODS OF TEACHING IN THE ELEMENTARY SCHOOLS (PHYSICAL EDUCATION). *Four hours credit.*

150h. METHODS OF TEACHING IN THE SECONDARY SCHOOLS (PHYSICAL EDUCATION). *Four hours credit.*

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

Prerequisites, the personal qualifications essential for a teacher, and for elementary majors Ed. 105, 53, 54, 150a; or secondary majors Ed. 105, 150b, 216, and the appropriate methods and directed participation courses. Content includes planning of definite teaching units, classroom teaching under supervision, conferences with supervising teachers on procedures employed, and participation in school and school-community activities.

158. ADVANCED OBSERVATION — STUDENT TEACHING. *Four hours credit.*

Prerequisites, public school teaching experience and Ed. 105, together with methods courses appropriate for the area or teaching situation being observed. Carefully directed observation analysis and evaluation of teaching in either the Ernest Horn Elementary School, or the College Secondary School, together with discussion of how to adapt methods observed to the student's particular teaching situation.

DESCRIPTION OF COURSES—EDUCATION

200. UNIT COURSES IN EDUCATION. *One hour credit for each unit.*
Short courses of two weeks' duration. The title of each specific unit implies the purpose and content of the course.
203. AVIATION FOR ELEMENTARY AND SECONDARY TEACHERS. *Four hours credit.*
A non-technical course with subject matter dealing in the elementary areas of maps, weather, navigation, civil air regulations, vocations, social significance of the air age, and with the methods and materials for teaching; to help teachers in all areas become better prepared to direct air-age youth. Class needs are considered.
207. PERSONALITY OF YOUNG CHILDREN (Summer Session only). *Four hours credit.*
Prerequisite, a course in psychology. Development of personality from birth through early childhood with methods of diagnosing and treating classroom problems of personality development.
- 208a. AUDIO-VISUAL AIDS IN EDUCATION. *Four hours credit.*
Topics include the underlying philosophy and psychology of learning as it relates to these aids, an examination of the various aids ranging from the field trip and objective materials through the motion picture, still picture, graphic materials, etc. A laboratory period is required.
- 208b. THE RADIO IN EDUCATION. *Four hours credit.*
Topics include the place of radio in society, the use of radio and recordings as instructional devices in the classroom, school radio and sound equipment, problems of school broadcasting, and teaching discrimination and appreciation.
- 208c. COMMUNICATIONS, EDUCATION, AND PROPAGANDA. *Four hours credit.*
A study of the methods, interests, and issues involved, together with the techniques of propaganda analysis. This is followed by an examination of the press, radio, and motion picture with special emphasis on techniques of developing discrimination.
- 208f. WORKSHOP IN RADIO PRODUCTION (Advanced course. Summer Session only. Credit may also be obtained in the Division of the Humanities). *Four hours credit.*
Elements of radio speaking, acting, script writing, and production with emphasis on educational programs. Taught on a laboratory basis with actual broadcasting on local station required of students.
210. IMPROVEMENT OF INSTRUCTION IN READING IN THE ELEMENTARY SCHOOL. *Four hours credit.*
Prerequisite, Ed. 150a or 151, or teaching experience. Content, methods, and materials to be used in the teaching of reading from the kindergarten through the sixth grade.
- 210a. READING IN THE PRIMARY GRADES (Summer Session only). *Four hours credit.*
The nature of reading, the curriculum in reading for the primary grades, the selection of effective methods and materials for teaching, and the use of tests.

DESCRIPTION OF COURSES—EDUCATION

- 210b. READING IN THE INTERMEDIATE GRADES (Summer Session only). *Four hours credit.*
The purpose of this course is to provide guidance in attacking problems to be met in the teaching of reading in the fourth, fifth, and sixth grades.
- 210d. REMEDIAL READING IN THE ELEMENTARY SCHOOL (Summer Session only). (Note the laboratory course, Ed. 210e). *Four hours credit.*
A lecture course dealing with remedial reading from grades one through six, testing and diagnosis of problem cases, and techniques and materials for use in remedying the difficulties.
- 210e. LABORATORY COURSE IN REMEDIAL READING (A laboratory course. Summer Session only). *Four hours credit.*
To be taken with Ed. 210d. A practice course with actual remedial cases with which the materials and techniques of diagnosis and treatment of difficulties are used.
- 210f. READING READINESS. *Four hours credit.*
Presenting theories, research, and practices regarding readiness for reading in the first grade and on through the elementary school, and readiness to read in subject-matter fields.
- 210g. TEACHING SPANISH-AMERICAN CHILDREN. *Four hours credit.*
The scope, 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.
- 210h. LABORATORY COURSE IN TEACHING SPANISH-AMERICAN CHILDREN. *Four hours credit.*
No prerequisite. A course in observation and participation of teaching Spanish-American children of various ages, using techniques and materials suited to their needs in the language arts.
- 210i. PROBLEMS IN READING. *Four hours credit.*
A special course to discuss specialized problems in reading.
211. IMPROVEMENT OF INSTRUCTION IN LANGUAGE IN THE ELEMENTARY SCHOOL. *Four hours credit.*
Prerequisites, Ed. 150a or 151, or teaching experience. Improvement in instruction, content, methods, and materials to be used in the teaching of speaking and writing from the kindergarten through the sixth grade.
- 211a. LANGUAGE IN THE PRE-SCHOOL AND PRIMARY GRADES (Summer Session only). *Four hours credit.*
A course in oral language from pre-school through grade three, and written language, penmanship, and spelling in the primary grades. Curriculum content, materials, and techniques will be studied.
- 211b. LANGUAGE IN THE INTERMEDIATE GRADES (Summer Session only). *Four hours credit.*
The purpose of this course is to provide guidance in coping with problems to be met in the teaching of language in the fourth, fifth, and sixth grades.

DESCRIPTION OF COURSES—EDUCATION

212. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN THE ELEMENTARY SCHOOL. *Four hours credit.*
Prerequisite, Ed. 150 a or 151, or teaching experience. Selecting what to teach, the grade placement of content, method and materials of teaching, and means of evaluating achievement.
- 212a. ARITHMETIC CONCEPTS FOR YOUNG CHILDREN (Summer Session only). *Four hours credit.*
Study and discussion of the development of number readiness and the utilization of the meanings of numbers in teaching the fundamental processes.
- 212b. ARITHMETIC IN THE INTERMEDIATE GRADES (Summer Session only). *Four hours credit.*
Problems in the teaching of arithmetic in the fourth, fifth, and sixth grades.
213. IMPROVEMENT OF INSTRUCTION IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. *Four hours credit.*
Selection and organization of content, learning activities, problem-solving and social action skills, building social values, and developing methods of teaching unified and correlated social studies programs.
214. THE ELEMENTARY SCHOOL. *Four hours credit.*
Prerequisite, Ed. 105. Origin and development of the elementary school, its purposes, organization, types of curricula, teacher-parent relationships, and other non-instructional problems.
- 215a. PRINCIPLES OF COUNSELING. *Two or four hours credit.*
The fundamental principles of guidance programs.
- 215c. GUIDANCE IN ELEMENTARY SCHOOLS. *Four hours credit.*
The scope and best techniques for carrying out a program in personnel and guidance from pre-school through grade six.
- 215g. VOCATIONAL GUIDANCE (Summer Session only). *Four hours credit.*
A basic course in the principles and techniques of vocational guidance appropriate for teachers of high school and college age youth.
- 215h. APPLIED TECHNIQUES OF COUNSELING. *Four hours credit.*
Prerequisite, a guidance course. This course is designed to give the student practical applications in guidance procedures in schools and colleges.
216. SECONDARY EDUCATION. *Four hours credit.*
Prerequisite, Ed. 105. An introductory course in secondary education concerned with the general problems of the evolution of the secondary school, purposes, the curriculum, learning materials, methods, and evaluation. (This course should precede or be taken in the same quarter with Ed. 150b).
217. EXTRA-CURRICULAR ACTIVITIES AND GUIDANCE. *Four hours credit.*
Prerequisite, Ed. 105. Topics covered include school government, athletics, debating, literary and social clubs, the school papers, musical and dramatic activities, and civic clubs and projects.

DESCRIPTION OF COURSES—EDUCATION

225. ADVANCED GENERAL PSYCHOLOGY. *Four hours credit.*
Prerequisite, Ed. 25. A survey of the problems, facts, principles, and experimental methods of psychology.
227. TEACHERS' CLASSROOM TESTS. *Four hours credit.*
Practical and technical training in the construction, evaluation, and interpretation of teacher-made tests, with special emphasis given to interpreting results.
- 227a. IMPROVING THE MARKING SYSTEM. *One hour credit.*
A unit course designed to assist teachers and administrators in the improvement of school marking and reporting practices.
- 227b. CONSTRUCTION AND USE OF ACHIEVEMENT TESTS. *One hour credit.*
How to construct and use various types of achievement tests.
- 228a. MENTAL HYGIENE. *Four hours credit.*
Prerequisite, Ed. 25 or its equivalent. A general non-technical course designed to give an understanding of the problems and principles of mental hygiene observed in normal community life.
- 228b. THE PSYCHOLOGY OF EXCEPTIONAL CHILDREN. *Four hours credit.*
Prerequisite, teaching experience and Ed. 25. The evaluation and adjustments necessary for understanding and teaching the brilliant, retarded, physically handicapped, and emotionally maladjusted child.
229. MEASUREMENTS AND EVALUATION. *Four hours credit.*
A basic course dealing with principles and techniques of evaluation of achievement in education at either the elementary or secondary school level.
- 229a. EDUCATIONAL MEASUREMENTS IN ELEMENTARY SCHOOLS. *Four hours credit.*
A course covering measurement in the various areas of learning from the nursery and kindergarten through the elementary grades, the study of instruments both informal and standardized which are applicable to measurement at these levels, and sensible uses of the results of measurement in the schools.
- 229b. MENTAL TESTS AND MEASUREMENTS. *Four hours credit.*
Principles and techniques of measurement and evaluation in psychology, including general intelligence and special aptitudes, as well as the areas of interest, attitude, and character.
236. TECHNIQUES OF TEACHING IN RURAL SCHOOLS. *Four hours credit.*
This course offers opportunities to become familiar with and evaluate new teaching techniques adapted to the instructional programs of rural schools.

DESCRIPTION OF COURSES—EDUCATION

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.*
To acquaint teachers with the important parent-home-school relationships in the educational process. The course deals with the philosophy of parent-teacher organization, methods of promoting a parent-teacher program, and local units of parent-teacher associations.
- 241a. ADMINISTRATION OF VILLAGE AND CONSOLIDATED SCHOOLS. *Four hours credit.*
(For men undergraduate subject matter majors and students with limited administrative experience. Students who elect this course should not take Ed. 342, 343, 344). A study of problems of small schools from the administrative standpoint. Curricula, supervision, transportation, records, and other problems.
- 241b. ADMINISTRATION FOR TEACHERS (Summer Session only). *Four hours credit.*
A course designed to equip the classroom teacher with a basic knowledge of how a public school is administered, with emphasis constantly on the teacher's problems.
245. CURRICULUM CONSTRUCTION. *Four hours credit.*
An appraisal of theories and practices of curriculum making, presentation of modern functional philosophy of curriculum making, and survey of the applications of this functional theory to the major areas of knowledge. (This is the first of three courses in the curriculum field: Ed. 245, 246, 247).
246. ADVANCED CURRICULUM CONSTRUCTION. *Four hours credit.*
This course discusses what to teach in the major areas of experience, including health, economic life, home and family life, civic education, leisure and recreation, religion, and individual development.
247. EDUCATIONAL SOCIOLOGY. *Four hours credit.*
Surveys and appraises the implications of outside-of-school agencies, such as associational influences, customs, social control, parent education, youth problems, libraries, motion pictures, museums, the press, and the radio.
249. PROBLEMS OF ORGANIZING A COMMUNITY. *Four hours credit.*
This course attempts to help administrators and teachers to utilize the resources of the community in a broad educational program in and out of school.

DESCRIPTION OF COURSES—EDUCATION

- 249a. WORKSHOP IN COMMUNITY PROBLEMS (Summer Session only).
Four hours credit.
Provision is made for students to work on individual problems relating to the community. A carefully worked out report in the form of a term paper is required.
- 249b. PROBLEMS OF INTERGROUP RELATIONS. *Two hours credit.*
A course dealing with the evidence as to all types of intergroup relations (race and nationality, minority groups, income groups, urban and rural groups) and with methods of teaching and measuring intergroup relations.
250. PRINCIPLES OF TEACHING. *Four hours credit.*
What teachers must do if pupils are to learn well—regarding learning context and focalization, social relationships, individualization, learning sequence and evaluation.
- 261a. PRE-SCHOOL AND KINDERGARTEN EDUCATION (Summer Session only). *Four hours credit.*
A course presenting the theories, research, and best practices for the education of children in schools from the age of two years until their entrance to first grade.
- 261b. KINDERGARTEN EDUCATION. *Four hours credit.*
A course covering the theory, research, and best practices for the education in kindergartens of four- and five-year-old children. Organization, housing and equipping of new kindergartens, the readiness programs for first grade, and parent education will have pertinent handlings within the course.
262. CREATIVE EDUCATION (Summer Session only). *Four hours credit.*
This course is designed to appraise the place and contribution of the theory of children's interests in education.
263. ORGANIZATION AND SUPERVISION OF THE ELEMENTARY SCHOOL. *Four hours credit.*
Types of school organization, administration of school services, pupil accounting, supervision of the instructional program, in-service education of teachers, school-community relationships.
266. SECONDARY SCHOOL CURRICULUM, INSTRUCTION, AND ADMINISTRATION (Summer Session only). *Four hours credit.*
Prerequisite, Ed. 216 or the equivalent. The problems of teachers, particularly those concerning curriculum and instruction on which the members of this class are working in service, will be used for cooperative committee study and development of recommendations for improved practices.
267. RECONSTRUCTING SECONDARY EDUCATION (Summer Session only). *Four hours credit.*
Prerequisite, Ed. 216 or the equivalent. Progressive thinking and progressive practices in secondary education and in the major teaching fields of the students enrolled will be used as a basis for the development of plans for the improvement of secondary school teaching.

DESCRIPTION OF COURSES—EDUCATION

271. TECHNIQUES OF ADULT EDUCATION (Summer Session only). *Four hours credit.*
This course will emphasize the development of the adult educational movement in this country, the psychology and philosophy of adult education, and methods and techniques in practical application.
272. PRINCIPLES OF VOCATIONAL EDUCATION. *Two or four hours credit.*
A study of the philosophy and development of vocational education, types of vocational education, legislation, state policies, school programs, and non-school agencies and programs.
- 275a. APPLIED GENERAL STATISTICS. *Four hours credit.*
A basic course introducing the student to the meaning and practical use of measures of central tendency, variability, reliability, and relationship.
- 277a. CHILD PSYCHOLOGY. *Four hours credit.*
Prerequisite, a course in general psychology or the equivalent. This course presents important information about the growth, adjustments, and capacities of children from conception through elementary school years. Emphasis placed upon what to do in guiding the development of children.
- 277b. PSYCHOLOGY OF ADOLESCENCE. *Four hours credit.*
This course gives data concerning physical, emotional, and social development of normal adolescence; examines critically the school program, and suggests methods of directing growth of the adolescent.
279. DEVELOPMENT OF AMERICAN PSYCHOLOGY. *Four hours credit.*
Prerequisite, Ed. 25 or its equivalent. Using a historical approach, a study is made of the various trends leading to the growth of structuralism, functionalism, behaviorism, and organismic gestalt psychology.
280. ORGANIZING A SCHOOL LIBRARY. (Fall Quarter). *Four hours credit.*
Aid for teachers in developing libraries in small schools; principles of maintenance and administration on either elementary or secondary level, simple classification and cataloging, converting schoolrooms to effective libraries.
281. LIBRARY MATERIALS FOR SCHOOLS. *Four hours credit.*
Prerequisite, Ed. 280: Evaluation of library resources. Coordination of materials with class needs. For both elementary and secondary schools.
282. DIRECTED LIBRARY PRACTICE. (Spring Quarter) *Four hours credit.*
Prerequisites, Ed. 280, 281, or the equivalent. A minimum of eight hours a week of directed work in the elementary, secondary, or college libraries.

DESCRIPTION OF COURSES—EDUCATION

283. INDIVIDUAL STUDIES OF LIBRARY PROBLEMS. *Four hours credit.*
Prerequisites, Ed. 280, 281, or their equivalent. (See Ed. 322 for equivalent requirements as to written work). A careful analysis of a practical library problem culminating in an individual study.
290. PROFESSIONAL EDUCATION OF TEACHERS (Summer Session only). *Two hours credit.*
Deals with general administration and control of teachers' colleges, the teaching staff, selection, admission, and supervision and control of students, records, reports, placement, finance, curriculum, educational research, and relationships with other educational institutions.
291. SOCIAL PSYCHOLOGY. (See Social Studies 202). *Four hours credit.*
Prerequisite, Ed. 25 or its equivalent. Specialized study of the behavior of persons in groups.
292. SUPERVISION OF STUDENT TEACHING. *Two hours credit.*
Study of appropriate techniques for directing the work of student teachers. Particular attention is given to teaching students how to plan lessons, conduct class discussion, analyze pupil difficulties, and evaluate pupil achievement.
- 293d. THE AMERICAN JUNIOR COLLEGE. *Four hours credit.*
A study of types, development and present status of the junior college, in relation to size, distribution, curriculum and function.
294. APPLIED LOGIC. *Four hours credit.*
Prerequisites, Ed. 105 and 295. Logical meaning, logical structure, factual reasoning, dialectical method; the problems of reality, self moral values, religion, and the esthetic experience.
295. PHILOSOPHY OF EDUCATION. *Four 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. Open only to seniors and graduate students.
- 295a. FOUNDATIONS OF MODERN EDUCATION. *Four hours credit.*
Prerequisites, Ed. 105, 214 or 216. This course is designed to study important historical and philosophical backgrounds for the interpretation of present-day educational issues. A substitute for Ed. 295.
297. CONCEPTIONS OF MIND IN EDUCATIONAL THEORY. *Four hours credit.*
Prerequisites, Ed. 105, 216, and 295. Traces the historical development of three major conceptions of mind and shows the relation of each to the aims of education.

DESCRIPTION OF COURSES—EDUCATION

298. CURRENT EDUCATIONAL TRENDS AND ISSUES (Summer Session only). *Four hours credit.*

Appraises the current studies in such areas as objectives of education, experimentation and evaluation, administration (elementary, secondary, and higher education), non-governmental controls, the program of education, teacher personnel, and welfare.

298a. SOCIAL AND EDUCATIONAL PLANNING IN THE POSTWAR WORLD (Summer Session only). *Four hours credit.*

The course, dealing with recent social and educational trends, presents needed adaptations for a broadened program for 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 intend to receive the degree of Master of Arts.

308g. WORKSHOP IN THE PRODUCTION OF AUDIO-VISUAL MATERIALS. (Alternate Summer Sessions only). (Credit may also be obtained in the Fine 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 are charts, graphic materials, models and exhibits, slides, recordings, and film strips.

308h. THE ADMINISTRATION OF AUDIO-VISUAL AIDS. (Alternate Summer Sessions only). *Four hours credit.*

Organization, functions, and administration of audio-visual programs in schools, school systems, colleges, and industries. Other topics include personnel, budget and finance, library, production, and technical services, teacher education, and public relations.

309a,b,c. SEMINAR IN ELEMENTARY EDUCATION. *Two or four hours credit each quarter.*

This course gives intensive consideration to instructional problems in the elementary school. The problems included each quarter are determined by the interests of the students enrolled.

310a. SPECIAL PROBLEMS IN THE SUPERVISION OF READING. (Fall Quarter). *Four 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 content 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.

DESCRIPTION OF COURSES—EDUCATION

- 311a. SPECIAL PROBLEMS IN THE SUPERVISION OF LANGUAGE. (Winter Quarter). *Four 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.
- 312a. SPECIAL PROBLEMS IN THE SUPERVISION OF ARITHMETIC. (Spring Quarter). *Four hours credit.*
Prerequisite, Ed. 210. This seminar course will cover 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 students enrolled. Problems usually considered include such matters as the understanding of the number system, standards for drill material, the teaching of a given process such as long division, the selection and use of textbooks, and the supervision of teaching.
- 315d. GUIDANCE IN SECONDARY SCHOOLS. (Summer Session only). *Four hours credit.*
Principles and techniques of guidance, functions of guidance workers, and analysis of representative guidance programs in secondary schools.
- 315e. PROBLEMS IN SECONDARY SCHOOL GUIDANCE (Summer Session only). *One to four hours credit.*
An advanced course which considers specialized problems such as home room guidance, tests and their use in guidance, records and reports, and individual guidance problems.
- 315f. PERSONNEL WORK IN COLLEGES AND UNIVERSITIES. *Four hours credit.*
General discussion of the administrative principles and functions of student personnel work. Admission policies, college orientation, housing, program planning, and interpretation of tests.
322. INDIVIDUAL STUDIES IN EDUCATION. *Two or four hours credit for one problem; a maximum of eight hours credit.*
Qualified students outline a definite problem and spend a minimum of twenty-five clock hours for each quarter-hour of college credit. Two type-written 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.
325. CONTEMPORARY PSYCHOLOGICAL PROBLEMS. *Four hours credit.*
This course deals with the contemporary status of the most persistent problems identified with the study of human behavior, such as intelligence, learning, thinking, and personality.

DESCRIPTION OF COURSES—EDUCATION

- 329c. THE STANFORD-BINET SCALE OF INTELLIGENCE. *Four hours credit.*
A laboratory course in the use of the scale, leading to the student's becoming qualified to administer it in schools and clinics.
342. SCHOOL ADMINISTRATION. (First Course). *Four hours credit.*
Prerequisites, twelve hours in education and experience. Federal relations to education, the state as the fundamental educational unit, local administrative units, duties and powers of the superintendent, and the administration of personnel. (Administration majors may earn up to 20 hours in this field by taking Ed. 342, 343, 344, 442, and 443).
343. SCHOOL ADMINISTRATION. (Second course). *Four hours credit.*
Prerequisites, twelve 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. (Third course). *Four hours credit.*
Prerequisites, twelve hours in education and experience. School building plans, specifications, construction, maintenance, operation, insurance, and purchase and care of supplies and equipment.
352. STUDENT SUPERVISION. *Four to eight hours credit.*
Open to those students who have a record of very successful public school teaching experience and are preparing for supervisory positions. A laboratory course to give practical experience, under close supervision, in directing the work of student teachers.
- 364a. IMPROVEMENT OF INSTRUCTION IN READING AND LANGUAGE. (For school administrators). *Four hours credit.*
This course offers a consideration of the most crucial problems to be solved in supervising the teaching of reading and language in the elementary school.
- 364b. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC, SPELLING, AND SOCIAL STUDIES. (For school administrators). *Four hours credit.*
This course offers a consideration of the most crucial problems to be solved in supervising the teaching of arithmetic, spelling, and social studies in the elementary school.
365. JUNIOR-SENIOR HIGH SCHOOL ADMINISTRATION AND SUPERVISION (Summer Session only). *Four hours credit.*
Prerequisite, Ed. 216 or the equivalent. The important problems in school administration and supervision as recognized and selected by secondary school administrative personnel enrolled in this course will determine its content.

DESCRIPTION OF COURSES—EDUCATION

- 365a. JUNIOR-SENIOR HIGH SCHOOL ADMINISTRATION AND SUPERVISION. *Four hours credit.*
Prerequisite, Ed. 216 or equivalent. A preliminary and inclusive survey of the problems and practices common to all secondary schools; the relation of the administrator to these, and criteria for judging them.
- 365b. PROBLEMS IN JUNIOR-SENIOR HIGH SCHOOL ADMINISTRATION AND SUPERVISION. *Four hours credit.*
Prerequisite, Ed. 365a or equivalent. An intensive treatment of the major problems in secondary school management, instruction improvement, curriculum construction, counseling, guidance and the evaluation of the school program.
368. THE SMALL HIGH SCHOOL (Summer Session only). *Four hours credit.*
Emphasis is directed in this course to those secondary school problems associated particularly with the small school.
369. EXPERIMENTATION IN THE SECONDARY SCHOOL (Summer Session only). *Four hours credit.*
Desirable prerequisites, Ed. 216, 267, or the 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.
- 375b. ADVANCED STATISTICS. *Four hours credit.*
Prerequisite, Ed. 275b or equivalent. Sampling theory, tests of significance, statistical inference, analysis of variance, and experimental design in educational research.
378. ADVANCED PSYCHOLOGY OF LEARNING (Summer Session only). *Four hours credit.*
Prerequisites, teaching experience and Ed. 77 or its 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. EXPERIMENTAL EDUCATION. *Four hours credit.*
This course deals with the recent methods of experimentation in education, including such topics as: experimental design, sampling, statistical analysis, and interpretation of results.
- 393a,b,c. SEMINAR IN HIGHER EDUCATION. *Four hours credit.*
The purposes of these courses are orientation and study of the problems of higher education including (a) organization and administration; (b) curriculum and instruction; (c) teacher education.

DESCRIPTION OF COURSES—EDUCATION

396. MODERN PHILOSOPHIES OF EDUCATION. *Four hours credit.*
Prerequisites, Ed. 105, 214, 216, 295. A study of three schools of philosophy and their educational implications—realism, idealism, and pragmatism.
399. THESIS. *Eight hours credit.*
400. INTRODUCTION TO GRADUATE STUDY. *Four hours credit.*
This course is open only to students enrolled for course work applicable to the Advanced Diploma of Specialization and the degree of Doctor of Education, and is required of all such students the first quarter in residence. A student who has had a similar graduate course elsewhere may be excused from this requirement by the Director of the Graduate School upon presentation of a written request approved by the major professor.
401. PRACTICUM FOR ADVANCED GRADUATE DIPLOMA OF SPECIALIZATION. *Eight hours credit.*
Practical professional activity or project, which culminates in an extensive written report of the project, emphasizing procedures used and conclusions reached.
- 422a. RESEARCH PRELIMINARY TO FIELD STUDY NO. 1.
Required of all candidates for the degree of Doctor of Education as preparatory to Field Study No. 1. This preparatory work must be done on the campus as a part of a student's regular course load and in consultation with the major professor or the research professor.
- 422b. RESEARCH PRELIMINARY TO FIELD STUDY NO. 2.
Required of all candidates for the degree of Doctor of Education preparatory to Field Study No. 2. This preparatory work must be done on the campus as part of a student's regular course load and in consultation with the major professor or the research professor.
- 423a,b,c. GRADUATE RESEARCH CREDIT FOR FIELD STUDY NO. 1.
Each course four hours—maximum twelve hours for Field Study No. 1. This graduate research credit is offered for fall, winter, and spring quarters respectively. For example, 423a, fall quarter, four hours; 423b, winter quarter, four hours; 423c, spring quarter, four hours. For the second study the credit is offered in the same way.
- 424a,b,c. GRADUATE RESEARCH CREDIT FOR FIELD STUDY NO. 2.
Each course four hours—maximum twelve hours for Field Study No. 2.
442. SCHOOL ADMINISTRATION (Fourth course). *Four hours credit.*
Prerequisites, twelve hours in education, experience, and graduate classification. The problems of general school law applicable in typical states and court decisions relative to schools, public relations, and school publicity.

DESCRIPTION OF COURSES—BUSINESS EDUCATION

443. SCHOOL ADMINISTRATION (Fifth course). *Four hours credit.*

Prerequisites, 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.

BUSINESS EDUCATION

Bachelor of Arts Degree

(With Teaching Certificate)

MAJOR

There are two fields of specialization in this major—Business Management and Secretarial Science. In addition to the Common Courses listed on Page 29, the following business courses are required in both areas; Bus. Ed. 1, 2, 10, 11, 13, 20, 21, 37, 41, 115, 131, 154, 272; Econ. 100 and eight additional hours from Econ. 105, 106, 200, 201, or Geog. 112. Additional requirements in Business Management are: Bus. Ed. 22, 255. Additional requirement in Secretarial Science is: Bus. Ed. 12. One 24 hour minor outside the division is required. Programs will be planned with the student's adviser.

MINOR

Courses required are: Bus. Ed. 41, 131, 253*; Econ. 100, and 12 hours selected from Bus. Ed. 1, 2, 10, 11, 20, 21. Proficiency examinations may be taken for exemptions from Bus. Ed. 1, 2, 10, 11, 20, but passing these examinations does not give credit toward a degree in Business Education.

Bachelor of Arts Degree

(Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30, (B) Bus. Ed 20, 37, 41, 131, 255; (C) Twenty-eight hours of electives in business education; (D) One 24 hour minor outside the division. Programs will be planned with the student's adviser.

*Bus. Ed. 150b or 272 may be substituted for Bus. Ed. 253 with the permission of the minor adviser.

MINOR

Courses required are: 24 hours in the division.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

1. TYPEWRITING. *Two hours credit.*
A beginning course in typewriting. Students who have had one year of high school typewriting or the equivalent who can pass a qualification examination may be exempted from this course.
2. ADVANCED TYPEWRITING. *Two hours credit.*
The second quarter of typewriting. Students who have had two years of high school typewriting or the equivalent who can pass a qualifying examination may be exempted from this course.
10. BEGINNING GREGG SHORTHAND. *Four hours credit.*
Prerequisite, one semester of high school typewriting or the equivalent. Students who have had one year of high school shorthand or the equivalent who can pass a qualifying examination may be exempted from this course.
11. INTERMEDIATE GREGG SHORTHAND. *Four hours credit.*
Students who have had two years of high school shorthand or the equivalent who can pass a qualifying examination may be exempted from this course.
12. SHORTHAND TRANSCRIPTION. *Four hours credit.*
A combination of materials equivalent to the third quarters of shorthand and typewriting.
13. OFFICE PRACTICE. *Four hours credit.*
Prerequisite, B. Ed. 2 or the equivalent. A combination of instructions in the use of office machines and experience in the administrative offices of the College. The class will meet for two consecutive hours each day.
14. SECRETARIAL PRACTICE. *Four hours credit.*
Prerequisite, B. Ed. 12 or the equivalent. This course deals with the duties of secretaries and gives advanced practice in transcription. Secretarial majors may substitute this course for B.Ed. 13. The class will meet for two hours each day.
20. INTRODUCTORY ACCOUNTING. *Four hours credit.*
A beginning course in accounting which deals primarily with the mechanics of bookkeeping. Students who have had high school bookkeeping or the equivalent may be exempted from this course by a qualifying examination.

DESCRIPTION OF COURSES—BUSINESS EDUCATION

21. PRINCIPLES OF ACCOUNTING I. *Four hours credit.*
A beginning course in the principles and theory of accounting.
22. PRINCIPLES OF ACCOUNTING II. *Four hours credit.*
Prerequisite, B. Ed. 21 or the equivalent. The second quarter of accounting principles.
37. BUSINESS MATHEMATICS. *Four hours credit.*
This course deals with the business applications of mathematics.
41. INTRODUCTION TO BUSINESS. *Four hours credit.*
This is a general exploratory and orientation course in the areas of business and commerce.
60. CALCULATING MACHINES. *Two hours credit.*
This is a beginning course in the use of a number of different kinds of calculating machines.
115. BUSINESS CORRESPONDENCE. *Four hours credit.*
Prerequisite, ability to typewrite. The basic principles and practices in the preparation of business correspondence.
117. DUPLICATING AND RECORDING MACHINES. (Summer Session only). *Two hours credit.*
The emphasis in this course is on demonstration and teaching methods rather than on practice.
123. CORPORATION ACCOUNTING. *Four hours credit.*
Prerequisite, B. Ed. 22 or the equivalent. The principles of accounting are applied to the books, records, and accounts of a corporation.
126. COST ACCOUNTING. *Four hours credit.*
Prerequisite, B. Ed. 22 or the equivalent. This is an advanced course in accounting which deals with the problems of the equitable distribution of costs in manufacturing.
127. SOCIAL SECURITY AND PAYROLL ACCOUNTING. *Two hours credit.*
Prerequisite, B. Ed. 22 or the equivalent. This course presents a modern system of record keeping and the required forms and reports which are required by law under the Social Security Act.
128. INCOME TAX RECORDS AND REPORTS. *Two hours credit.*
The records, reports, forms, and practices involved in dealing with income taxes.
131. BUSINESS LAW. *Four hours credit.*
This course deals with the law of contracts.
132. BUSINESS LAW. *Four hours credit.*
This course deals with the law of negotiable instruments.

DESCRIPTION OF COURSES—BUSINESS EDUCATION

133. BUSINESS LAW. *Four hours credit.*
This course deals with the law of agency, bailments, partnerships, personal property, and real estate.
154. CONSUMER EDUCATION. *Four hours credit.*
This course deals with the problems of the consumer in management of his personal activities.
156. RETAIL MERCHANDISING. *Four hours credit.*
This is a cooperative part time course dealing with the principles of retail merchandising and store selling.
157. PRINCIPLES OF INSURANCE. *Four hours credit.*
The different types of insurance coverage available, the kinds of policies, and the agencies of insurance are presented in this course.
158. ADVERTISING. *Four hours credit.*
The principles and practices of advertising are studied in this course through a cooperative part time plan.
159. SALESMANSHIP. *Four hours credit.*
The principles of good salesmanship will be studied through a cooperative part time plan.
161. ADVANCED CALCULATING MACHINE PRACTICE. *Two hours credit.*
Speed building in the use of one particular calculating machine is the chief objective of this course.
216. SECRETARIAL SCIENCE. *Four hours credit.*
A general survey course in the secretarial field with emphasis on teaching methods.
234. SURVEY OF BUSINESS LAW. *Four hours credit.*
This course deals with problems in classroom presentation and the teaching of business law.
253. TEACHING THE BUSINESS SUBJECTS. *Two hours credit.*
This course consists of a series of two-hour unit courses which deal with teaching methods in: (a) bookkeeping; (b) office practice; (c) consumer economics; (d) shorthand; (e) typewriting; and (f) general business.
254. CONSUMER ECONOMICS. *Four hours credit.*
Includes history and theory of consumption economics, with emphasis on consumer values in education. Students are allowed a choice of study units involving research.
255. BUSINESS ORGANIZATION AND MANAGEMENT. *Four hours credit.*
This course deals with the different types of organization which have been used in the conduct of business.

DESCRIPTION OF COURSES—BUSINESS EDUCATION

272. THE BUSINESS CURRICULUM. *Four hours credit.*
The business curriculum in the high school is the basic consideration in this course.
300. INTRODUCTION TO GRADUATE STUDY IN BUSINESS EDUCATION. *Four hours credit.*
Required of all majors in business education who are candidates for the degree of Master of Arts.
322. INDIVIDUAL STUDIES. *Four hours credit.*
This course provides an opportunity for the graduate student to engage in individual research in the field of business education. Paper required.
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.
372. ADVANCED CURRICULUM PROBLEMS. *Four hours credit.*
High school curricula and courses of study in business subjects will be planned and developed in this course.
373. CURRENT PROBLEMS IN BUSINESS EDUCATION. *Four hours credit.*
The analysis of current problems and trends in business education.
375. ADVANCED ACCOUNTING PROBLEMS. *Four hours credit.*
Prerequisite, at least twelve hours of college credit in accounting, or the equivalent. The course deals with advanced problems in accounting.
376. ANALYSIS OF FINANCIAL STATEMENTS. *Four hours credit.*
Prerequisite, at least twelve hours of college credit in accounting, or the equivalent. The analysis and interpretation of financial statements for credit, financial, and management purposes is the chief consideration in this course.
399. MASTER'S THESIS. *Eight hours credit.*

Division of Health

The Division of Health includes physical education for women and physical education for men.

Bachelor of Arts Degree (With Teaching Certificate)

For Women

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) P. E. 14, 62, 80, 81, 82, 83, 84, 85, 90, 91, 92, 93, 94, 95, 120a,b, 122, 129a,b,c, 150a, 150b, 202, 203, 232, 235, 272; (C) Membership in the Dance Club for one year; (D) Two minors of 24 hours each outside the division. Electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required for students majoring in General Secondary (Distributive) major: P. E. 62, 80, 81, 90, 92, 129a,b,c, 150b, 272.

Courses required for students majoring in Elementary Education: P. E. 62, 80, 84, 85, 90, 92, 129b,c, 150a, 272.

Bachelor of Arts Degree (With Teaching Certificate)

For Men

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) P. E. 62, 70, 71, 73, 74, 75, 76, 92, 120a,b, 122, 150a, 150b, 161, 162, 163, 164, 202, 235, 270, 272; (C) In addition, two hours of dance selected with the advice of the major professor; (D) Two minors of 24 hours each outside the division. Electives to complete requirements for graduation. Programs will be planned with the student's adviser.

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

Men majoring or minoring in physical education are not required to take physical activity courses during the quarters in which they are members of freshman or varsity athletic squads, or are enrolled in professional courses numbered from 70 to 99 inclusive. Permission of the instructor is required for enrollment in freshman or varsity sports.

MINOR

Courses required are: P. E. 62, 73, 75, 76, 150b, 161, 162, 270, 272.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Physical Education Program
(For Non-Majors)

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.

MEN

During their first year men students should enroll for 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.

Athletic Clothing and Lockers

Women may purchase regulation gymnasium suits from the College Bookstore in the Student Union. These suits are required.

Men and women students registered for activity courses are required to obtain a locker padlock in the College Bookstore. Locker assignments for women are made in Gunter Hall, Room 109. Locker assignments for men are made in the Gymnasium Equipment Room.

Physical Activity

Three hours of physical activity are required in the freshman year and three hours in the sophomore year for a total of six hours credit. To be excused from physical exercise, students must have the approval of the faculty of the Division of Health.

Description of Courses

NON-PROFESSIONAL COURSES

- 1, 2, 3. ORIENTATION IN PHYSICAL EDUCATION ACTIVITIES. *One hour credit each quarter.*
Seasonal program. Recommended for all first-year men students.
5. TAP DANCING. *One hour credit.*
- 6a. BEGINNING MODERN DANCING. *One hour credit.*
- 6b. INTERMEDIATE MODERN DANCING. *One hour credit.*
Prerequisite, P. E. 6a.
7. FOLK DANCING. *One hour credit.*
8. SOCIAL DANCING. *One hour credit.*
9. AMERICAN SQUARE DANCING. *One hour credit.*
10. FIELD HOCKEY. *One hour credit.*
11. SOFTBALL. *One hour credit.*
12. SOCCER. *One hour credit.*
13. TOUCH FOOTBALL. *One hour credit.*
14. PLAYS AND GAMES. *One hour credit.*
15. VOLLEYBALL. *One hour credit.*
16. SWIMMING; 16a, BEGINNING SWIMMING; 16b, INTERMEDIATE SWIMMING; 16c, ADVANCED SWIMMING. *One hour credit each quarter.*
17. GOLF. *One hour credit.*

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

18. BASKETBALL. *One hour credit.*
19. MINOR INDIVIDUAL SPORTS. *One hour credit.*
20. BOXING. *One hour credit.*
21. FENCING. *One hour credit.*
22. MATWORK: 22a, PYRAMIDS; 22b, DOUBLE TUMBLING; 22c, GYMNASTICS. *One hour credit each quarter.*
23. TENNIS. *One hour credit.*
24. INDIVIDUAL GYMNASTICS. *One hour credit.*
- 45a. FRESHMAN FOOTBALL; 45b, VARSITY FOOTBALL; 45c, SPRING FOOTBALL. *One hour credit each quarter.*
- 46a. FRESHMAN BASKETBALL; 46b, VARSITY BASKETBALL. *One hour credit each quarter.*
- 47a. FRESHMAN WRESTLING; 47b, VARSITY WRESTLING. *One hour credit each quarter.*
- 48a. FRESHMAN GYMNASTICS; 48b, VARSITY GYMNASTICS. *One hour credit each quarter.*
- 49a. FRESHMAN SWIMMING; 49b, VARSITY SWIMMING. *One hour credit each quarter.*
- 50a. FRESHMAN BOXING; 50b, VARSITY BOXING. *One hour credit each quarter.*
- 51a. FRESHMAN FENCING; 51b, VARSITY FENCING. *One hour credit each quarter.*
- 52a. FRESHMAN BASEBALL; 52b, VARSITY BASEBALL. *One hour credit each quarter.*
- 53a. FRESHMAN TRACK; 53b, VARSITY TRACK. *One hour credit each quarter.*
- 54a. FRESHMAN TENNIS; 54b, VARSITY TENNIS. *One hour credit each quarter.*
61. PERSONAL HYGIENE. *Four hours credit.*

This course presents basic facts about health and disease. It aims to educate the student in the protection and promotion of his health and that of the community and to encourage desirable health behavior.
62. FIRST AID. *Two hours credit.*

The course emphasizes the prevention, diagnosis, and treatment of the common accidents seen in daily life.
63. ADVANCED FIRST AID. *One hour credit.*

Prerequisite, P. E. 62.
64. INSTRUCTORS' COURSE IN FIRST AID. *One hour credit.*

Prerequisites, P. E. 62 and 63.

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

65. SENIOR LIFE SAVING. *One hour credit.*
Prerequisite, ability to pass the preliminary swimming requirements.
66. WATER SAFETY INSTRUCTORS' COURSE. *One hour credit.*
Prerequisite, P. E. 65.
67. INSTRUCTORS' COURSE IN ACCIDENT PREVENTION. *One hour credit.*

PROFESSIONAL COURSES

Courses 70 to 99 are for physical education majors and minors; in special instances others may enroll with permission of the instructor.

70. THEORY AND PRACTICE OF GYMNASTICS AND MATWORK. *Two hours credit.*
For men. Fundamental skill techniques in gymnastics and matwork.
71. THEORY AND PRACTICE OF MINOR SPORTS. *Two hours credit.*
For men. Fundamental skill techniques in minor sports.
73. THEORY AND PRACTICE OF BASKETBALL. *Two hours credit.*
For men. Fundamental skill techniques in basketball.
74. THEORY AND PRACTICE OF BOXING AND WRESTLING. *Two hours credit.*
For men. Fundamental skill techniques in boxing and wrestling.
75. THEORY AND PRACTICE OF TRACK AND BASEBALL. *Two hours credit.*
For men. Fundamental skill techniques in track and baseball.
76. THEORY AND PRACTICE OF FOOTBALL. *Two hours credit.*
For men. Fundamental skill techniques in football.
77. AQUATICS AND WATER SAFETY. *Two hours credit.*
Prerequisite, ability to swim. For men. Waterfront and pool activities, safety procedures, and techniques of teaching swimming.
80. BODY MECHANICS AND MINOR INDIVIDUAL SPORTS. *Two hours credit.*
For women. The first part of the course will present exercises for posture and body alignment. The second part will offer skill techniques in minor individual sports.
81. TECHNIQUES OF VOLLEYBALL AND BASKETBALL. *Two hours credit.*
For women. Fundamental skills, team play, rules, and techniques.
82. TECHNIQUES OF HOCKEY AND SOCCER. *Two hours credit.*
For women. Fundamental skills, team play, rules, and techniques.
83. TECHNIQUES OF SWIMMING. *Two hours credit.*
For women. Beginning, intermediate, and advanced swimming. Fundamental skills in swimming and diving.

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

84. TECHNIQUES OF TENNIS AND SOFTBALL. *Two hours credit.*
For women. Fundamental skills, team play, rules, and techniques.
85. TECHNIQUES OF TUMBLING. *Two hours credit.*
For women. Fundamental skills and techniques in tumbling and matwork.
90. TECHNIQUES IN FOLK DANCES OF VARIOUS COUNTRIES.
Two hours credit.
91. TECHNIQUES IN TAP DANCING AND COMPOSITION. *Two hours credit.*
92. AMERICAN SQUARE AND SOCIAL DANCING. *Two hours credit.*
Fundamental skills, materials, and techniques of teaching square and social dance.
93. TECHNIQUES IN THE MODERN DANCE. *Two hours credit.*
Dance techniques of movement, rhythm, and composition in modern dance.
94. USE OF MUSIC IN THE DANCE. *Two hours credit.*
A study of the history of music and dance, of musical and dance forms, dance composition, and the use of music as dance accompaniment.
95. PROBLEMS IN TEACHING THE DANCE. *Two hours credit.*
The analysis of techniques from a teaching standpoint will be presented for folk, tap, social, and modern dancing. Opportunities for practice teaching will be offered.
- 120a,b. ANATOMY AND PHYSIOLOGY. P. E. 120a. *Four hours credit.*
P. E. 120b. *Two hours credit.*
The study of structure and function of the human body, including digestive, circulatory, respiratory, reproductive, nervous, excretory, and endocrine.
122. KINESIOLOGY. *Four hours credit.*
This course gives detailed work on the skeletal and muscular systems. Advised especially for students wishing to go into physical therapy work.
- 129a,b,c. TEACHING OF SPORTS FOR WOMEN. *Two hours credit each quarter.*
A consideration of the basic techniques of fall, winter, and spring sports, emphasizing teaching procedures.
- 150a. METHODS OF TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. *Four hours credit.*
A study of planning, materials, and methods in physical education for the elementary school based on mental, physical, and social needs of the child at various age levels.
- 150b. METHODS OF TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOLS. *Four hours credit.*
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.

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

161. COACHING OF FOOTBALL. *Two hours credit.*
Prerequisite, P. E. 76, or P. E. 45a,b, or permission of the teacher. Sports techniques, rules, strategy, teaching procedures, training regulations, and reading material in the field.
162. COACHING OF BASKETBALL. *Two hours credit.*
Prerequisite, P. E. 73, or P. E. 46a,b, or permission of the teacher. 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, P. E. 75, or P. E. 53a,b, or permission of the teacher. A detailed study of competitive track and field athletics. Experience in organizing and conducting track meets.
164. COACHING OF BASEBALL. *Two hours credit.*
Prerequisite, P. E. 75, or P. E. 52a,b, or permission of the teacher. Techniques and procedures in developing individual and team play. Defensive baseball, pitching, catching, infielding, outfielding, strategy. Offensive baseball: batting, baserunning, strategy.
183. HOME NURSING. *Four hours credit.*
Materials and methods of caring for the sick in the home. Special emphasis is given to conserving time, energy, and money.
202. SCHOOL HEALTH EDUCATION. *Two hours credit.* (Summer Session, *Four hours credit*).
A philosophy of health teaching and the presentation of criteria for judging materials and methods of health teaching.
203. SOCIAL HYGIENE. *Two hours credit.*
A consideration of the hygienic implications of those social contacts that are particularly influenced by sex.
204. ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH PROGRAMS. *Four hours credit.*
Survey of school programs including organization, administration, supervision, personnel, curriculum, equipment and finance; kinds of grades of school health services and interrelationships; testing and evaluation techniques; developmental programs in health education; legal aspects.
205. EVALUATION AND SELECTION OF HEALTH EDUCATION MATERIAL. *Four hours credit.*
A study is made of published material in the field of health to determine its scientific accuracy and its value for the teachers or for the learner. Visual and other types of health material are analyzed. Examination is made of various media for disseminating health information.
206. HEALTH COUNSELING. *Four hours credit.*
Identification of physical, mental, emotional, and social health problems; remedial procedures; counseling techniques; handling of confidential records; health aspects of educational and vocational guidance, and related problems. Primarily for teachers of health and physical education.

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

210. CAMP LEADERSHIP. *Three hours credit.*
(Offered during Pre-Session in a camp near Estes Park). A practical camping course at a modern Rocky Mountain campsite.
232. THE PROBLEMS OF INDIVIDUAL GYMNASTICS. *Four hours credit.*
The science of muscle action in relation to postural defects and treatment.
235. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. *Four hours credit.*
Background materials for understanding physical education.
255. MODERN DANCE TECHNIQUE. *Four hours credit.*
Basic work in techniques and rhythms of the modern dance and the fundamentals of composition. Laboratory work required.
256. MUSIC IN THE MODERN DANCE. *Four hours credit.*
The technique of playing percussion instruments and composition of rhythms for percussion. The study of music form and composition in relation to the dance.
270. THE ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS. *Four hours credit.*
An advanced course for physical education teachers and coaches.
271. SAFETY EDUCATION. *Four hours credit.*
Comprehensive course for probable administrators of safety programs in public schools.
272. RECREATION LEADERSHIP. *Four hours credit.*
A discussion of a recreational program for schools and parent-teacher groups and their coordination with community recreation organizations.
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.
312. TESTS AND MEASUREMENTS. *Four hours credit.*
A survey of tests in health and physical education, their use and methods of construction, and presentation of necessary statistical material for test interpretation.
322. INDIVIDUAL STUDIES IN HEALTH AND PHYSICAL EDUCATION. *Four hours credit for one problem; maximum of eight hours toward the degree of Master of Arts.*
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, P. E. 120a,b. Effects of muscular activities on the various organs and systems of the body.

DESCRIPTION OF COURSES—HEALTH AND PHYSICAL EDUCATION

336. KINESIOLOGY OF INDIVIDUAL GYMNASTICS. *Four hours credit.*
A study of the bones and muscles of the body and application to a program in posture training.
338. SOCIOLOGY OF PLAY. (Summer Session only). *Four hours credit.*
Prerequisite, P. E. 272. The extent, need, functions, theories, nature and development of play. Qualifications and development of play leaders.
340. CURRICULUM IN PHYSICAL EDUCATION. *Four hours credit.*
Principles involved in curriculum making; the necessity of a comprehensive curriculum; and the formulation of a progressively graded curriculum.
341. ADMINISTRATION OF PHYSICAL EDUCATION. *Four hours credit.*
This course deals with policies and building construction in the organization of a program of physical education.
342. SUPERVISION OF PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. (Summer Session only). *Four hours credit.*
Desirable prerequisite, P. E. 150a. Topics discussed are position and duties of a supervisor of physical education in school administrative organization.
343. SUPERVISION OF PHYSICAL EDUCATION IN THE SECONDARY SCHOOL. (Summer Session only). *Four hours credit.*
Desirable prerequisite, P. E. 150b. Topics discussed are position and duties of a supervisor of physical education in school administrative organization.
355. ADVANCED TECHNIQUE AND COMPOSITION IN THE MODERN DANCE. (Summer Session only). *Four hours credit.*
A continuation of P. E. 255 with stress on composition. Advanced work in technique and composition with special emphasis on original composition. Laboratory work required.
357. WORKSHOP IN MODERN DANCE. *Four hours credit.*
Prerequisites, P. E. 255 and 355. Teaching principles of dance; composition for groups; planning and presenting a dance concert; lighting, costuming, color and design for dance performances. Laboratory work required.
375. CURRICULUM IN RECREATION. (Summer Session only). *Four hours credit.*
Principles involved in curriculum making; an appreciation of the wide scope of the field in recreation; the necessity of a comprehensive curriculum; the formulation of a progressively graded curriculum.
377. ADMINISTRATION OF COMMUNITY RECREATION. (Summer Session only). *Four hours credit.*
This course includes making budgets, necessary facilities and equipment, efficient records, actual visits to recreation projects, and records.
399. THESIS. *Eight hours credit.*

Division of the Humanities

The Division of the Humanities includes the fields of English, Speech and Drama, Foreign Languages, and the Humanities.

ENGLISH

Bachelor of Arts Degree
(With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) Eng. 4b, 58a, 58b, 58c, 110, 126, 211; Speech 5 (or 16), 120; (C) An additional 20 to 28 hours in English; (D) Two minors of 24 hours each, one of which may be speech and drama, or foreign language, and one outside the division. Programs will be planned with the student's adviser.

MINOR

Courses required are: Eng. 58a, 58b, 58c, 126, 211; eight hours of electives in composition and speech.

ENGLISH

Bachelor of Arts Degree
(Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) Eng. 4b, 58a, 58b, 58c, 110, 211; Speech 5, (or 16) 120; plus 40 hours of electives; (C) A 24 hour minor outside the division; (D) Electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: Eng. 58a, 58b, 58c, 211; eight hours of electives in composition and speech.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

ENGLISH

- 4a,b. ELEMENTARY ENGLISH COMPOSITION. *Four hours credit each quarter.*
The basic needs for correct, acceptable usage in writing, and practice in written expression.
44. INTERMEDIATE COMPOSITION. *Four hours credit.*
Variety, clearness, and correctness in writing. Special emphasis upon functional grammar.
- 58a. SURVEY OF ENGLISH LITERATURE. 700-1744. *Four hours credit.*
Comprehensive readings in English literature following its development from early forms and content to more definite expression in the early eighteenth century.
- 58b. SURVEY OF ENGLISH LITERATURE. 1744-1945. *Four hours credit.*
The same plan as that indicated for 58a.
- 58c. SURVEY OF AMERICAN LITERATURE. *Four hours credit.*
A course in American literature following the plan of the survey courses in English literature.
101. NEWS WRITING FOR HIGH SCHOOL TEACHERS OF JOURNALISM. *Four hours credit.*
Study of the techniques of writing straight news stories, feature stories, and columns.
110. CREATIVE WRITING. *Four hours credit.*
Opportunity to write creatively under criticism with emphasis upon the individual's own purposes and experiences.
126. LITERATURE AND MATERIALS IN SECONDARY SCHOOLS. *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.
130. THE EIGHTEENTH CENTURY. *Four hours credit.*
Readings and discussions of new trends of thinking and expression in literature and life that made the transition between the Renaissance and the modern world.

131. PROSE AND POETRY OF THE ROMANTIC MOVEMENT. *Four hours credit.*
Sources and development of Romantic Movement. Historical background of thought leading to the American and French Revolutions, and effect upon writers and statesmen of that period and the present one.
132. PROSE AND POETRY OF THE VICTORIAN PERIOD. *Four hours credit.*
Reading and discussion of the best essays, criticism, and poetry of the Victorian era. Contrast and comparisons with present-day poets, critics, and conditions.
133. CONTEMPORARY PROSE AND POETRY. *Four hours credit.*
Reading and discussion of the best essays, criticism and poetry of the present day.
201. JOURNALISM—THE SCHOOL NEWSPAPER AND ANNUAL. *Four hours credit.*
Instruction in all phases of preparation and publication of school newspapers and annuals.
209. LATIN-AMERICAN LITERATURE IN TRANSLATION. (Summer Session only). *Four hours credit.*
Lectures in English on the literary movements and principal writers of Spanish-American countries.
210. ADVANCED COMPOSITION. *Four hours credit.*
Individual practice in writing, for improvement in technique, form, and content. Special attention to term, designated, and research papers.
211. THE ENGLISH LANGUAGE. *Four hours credit.*
Non-technical study of the English language. Principles of general language and history of the English language. Usage and grammar. Psychology of language teaching.
221. LITERATURE IN THE ELEMENTARY SCHOOL. *Four hours credit.*
Required of elementary majors. A survey of children's literature appropriate for grades three to six inclusive; consideration of interests and abilities governing the choice of literature in these grades.
226. ENGLISH IN JUNIOR HIGH SCHOOLS. (Summer Session only). *Four hours credit.*
A course similar to Eng. 126 in materials and methods with emphasis on the junior high school.
231. THE SHORT STORY. *Four hours credit*
The study of typical modern short stories to observe the methods of modern writers and the interpretations of our present-day life embodied in this form of literature.

DESCRIPTION OF COURSES—ENGLISH

232. THE DEVELOPMENT OF THE NOVEL. *Four hours credit.*
Reading novels showing changes from the eighteenth century to the present. Emphasis on the range of subject matter, effectiveness of construction, and worth of content.
233. THE CONTEMPORARY NOVEL. *Four hours credit.*
The form and content of representative novels of recent decades as expressions of present-day points of view.
234. THE STUDY OF MODERN DRAMA. *Four hours credit.*
Reading and class discussion of plays that best represent the thought currents and the dramatic structure of the drama of our times.
236. THE THEATER AND THE WORLD TODAY. *Four hours credit.*
Recent drama and motion pictures; reading, discussion, and papers on comparative values of materials. Attendance at theater or motion pictures when possible.
239. THE FORMS AND MEANINGS OF POETRY. *Four hours credit.*
Critical study of the forms and content of some of the greatest poetry written through the centuries. Special reference to the poets of the twentieth century.
242. CONTEMPORARY RUSSIAN LITERATURE. *Four hours credit.*
Intensive reading of major Russian poets, novelists, and short story writers since 1920.
- 244a. WORLD LITERATURE. (Alternate Summer Sessions only). *Four hours credit.*
The emergence and development of great ideas through the literature of successive culture epochs in Western civilization: Greek, Medieval, Renaissance, 18th Century and 19th Century.
- 244b. WORLD LITERATURE (Alternate Summer Sessions only). *Four hours credit.*
Continuation of 244a into the diverse expression and value of these ideas in modern world literature.
- 255a. SHAKESPEARE'S EARLIER DRAMAS. *Four hours credit.*
Developing critical appreciation of various types of plays through an understanding of the drama and poetry of Shakespeare. A study of comedies, tragedies, and histories of Shakespeare's earlier periods.
- 255b. SHAKESPEARE'S LATER DRAMAS. *Four hours credit.*
Continuation of 255a. Reading and discussion of Shakespeare's greatest tragedies and final plays; summation of his life and times, together with evaluation of his work as dramatist and poet.
- 255c. ELIZABETHAN DRAMA (1585-1642). *Four hours credit.*
Great dramatic literature of the period, other than that of Shakespeare; consideration of stage conditions, acting companies, changes in dramatic form and subjects reflecting the life of the time.

DESCRIPTION OF COURSES—ENGLISH

- 258b. READINGS IN ENGLISH LITERATURE. (Through the modern period). *Four hours credit.*
- 258c. READINGS IN AMERICAN LITERATURE. *Four hours credit.*
- 289a. LITERATURE OF THE OLD TESTAMENT. *Four hours credit.*
Development of appreciation of the Bible as literature, with emphasis on literary value through a study of folklore, short stories, poetry, biography and prophetic writings of the Old Testament.
- 289b. LITERATURE OF THE NEW TESTAMENT. *Four hours credit.*
A companion course to 289a.
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.
312. OLD ENGLISH. *Four 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. *Four hours credit.*
Writings of Geoffrey Chaucer (Canterbury Tales and Troilus and Cressida) in Middle English, showing the transition from complicated Anglo-Saxon to the speech of today.
319. LABORATORY COURSE IN REMEDIAL READING. (Summer Session only). *Four hours credit.*
Survey of methods of diagnosing and treating remedial reading problems in the secondary school. Practical application of principles to actual cases in the remedial reading laboratory.
322. INDIVIDUAL STUDIES IN ENGLISH. *Four hours credit.*
Qualified students outline definite problems and present a typewritten paper.
335. GREAT NOVELS OF THE TWENTIETH CENTURY. *Four hours credit.*
Discussion of great novels since 1900 that have enlarged the scope and importance of the novel. Eight novels will be intensively studied in class.
337. THE DEMOCRATIC THEME IN RECENT FICTION. (Summer Session only). *Four hours credit.*
Books and correlative reading are chosen pointing to the necessity for maintaining and developing the way of life which is called democracy.
341. WORLD VIEWS IN NINETEENTH AND TWENTIETH CENTURY POETRY. (Summer Session only). *Four hours credit.*
A survey of the waves of revolutionary thought as expressed by poets from the time of the French Revolution to the present time.

DESCRIPTION OF COURSES—FOREIGN LANGUAGES

356. SHAKESPEARE, MAN OF GENIUS. (Summer Session only). *Four hours credit.*

Intensive study of specially selected plays. The enriched background, depth and beauty of thought, and universality of understanding are emphasized.

399. THESIS. *Eight hours maximum credit.*

FOREIGN LANGUAGES

Bachelor of Arts Degree

(With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) From 48 to 56 hours of credit in languages depending upon a student's language background; (C) Proficiency in one or more of the following: Latin, Spanish, French or German—(Greek or Italian may be offered by students proficient in these languages); (D) Two minors of 24 hours each, one of which may be English or speech and drama, and one outside the division; (E) Electives to complete requirements for graduation. A student who has had two years of a language in high school will not be given college credit for the elementary course in that language. Programs will be planned with the student's adviser.

MINOR

Courses required are: 28 hours in languages for beginning students; 24 hours for students who studied two years of a language in high school, provided the same language is studied in the College. (These students begin with the intermediate course). Two minors are the equivalent of a major.

Bachelor of Arts Degree

(Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) Sixty-four hours of language; (C) One minor outside the division; (D) Electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: 28 hours in languages for beginning students; 24 hours for students who continue with a language they studied for two years in high school.

Requirements are the same as for the minor in the Bachelor of Arts with teaching certificate.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

FRENCH

- 1, 2, 3. ELEMENTARY FRENCH. *Four hours credit each quarter.*
A study of pronunciation, including phonetics, and the principles of grammar. Practice in reading. Credit is not given until the three quarters are completed.
5. INTERMEDIATE FRENCH. *Four hours credit.*
Prerequisite, two years of high school French or one year of college French. Grammar review, study of idioms, imitative composition. Intensive drill in phonetics.
6. INTERMEDIATE FRENCH. *Four hours credit.*
A history of France in French is studied to give a historical background for subsequent study of French literature.
7. INTERMEDIATE FRENCH. *Four hours credit.*
Varied readings of plays and short stories, with conversation based on the reading.
122. INDIVIDUAL STUDIES. *Four hours credit.*
- 205, 206, 207. SURVEY OF FRENCH LITERATURE. *Four hours credit each quarter.*
Prerequisite, two years of college French or the equivalent. Study of Nouvelle Anthologie Francaise by Schinz, Robert, Giroud, or a similar anthology. Each course may be taken independently.
208. FRENCH CIVILIZATION. *Four hours credit.*
Lectures in English to provide students and prospective teachers of French with a knowledge of French life and customs. Students choose phases of French civilization for reports. Offered on request.
216. SUPPLEMENTARY READINGS IN FRENCH LITERATURE. *Four hours credit.*
Course content varies according to the needs of the students. It presupposes at least 28 hours of study of the language.

DESCRIPTION OF COURSES—FOREIGN LANGUAGES

225. EIGHTEENTH CENTURY FRENCH LITERATURE. *Four hours credit.*
Prerequisite, two years of college French or the equivalent. Literature, society, and trends of thought of the Eighteenth Century. Discussion in French.
226. FRENCH ROMANTICISM. *Four hours credit.*
Procedure and prerequisite the same as for Fr. 225. The Romantic writers in France with relation to the movement elsewhere in Europe. Emphasis on Hugo and Musset.
227. TWENTIETH CENTURY FRENCH LITERATURE. *Four hours credit.*
Prerequisite, same as for Fr. 205. Lectures on the writers of this century with extensive individual readings and reports.
- 260 FRENCH LITERATURE IN ENGLISH TRANSLATION. (Summer Session only). *Four hours credit.*
Lectures on the most important French writers. Outside readings with reports. No knowledge of French required.

GERMAN

- 1, 2. ELEMENTARY GERMAN. *Four hours credit each quarter.*
The course aims to develop accurate pronunciation, to enable students to read simple German directly, without translation, and to use and understand simple spoken German. Credit not given until three quarters are completed.
3. ELEMENTARY GERMAN. *Four hours credit.*
The class is divided into two groups, one reading literary German of elementary grade, the other simple scientific German.
5. INTERMEDIATE GERMAN. *Four hours credit.*
Grammar review, composition, oral practice.
6. INTERMEDIATE GERMAN. *Four hours credit.*
German history is studied in German, using Friederich's *Kurze Geschichte des Deutschen Volkes*, or similar textbook.
7. INTERMEDIATE GERMAN. *Four hours credit.*
Schiller's *Wilhelm Tell* and short poems are studied as representative of Germany's greatest literary period.

ITALIAN

- 1, 2, 3. ELEMENTARY ITALIAN. *Four hours credit each quarter.*
A three quarter sequence designed especially for music students. Elementary grammar, reading and conversation. Emphasis on pronunciation and vocabulary building. No credit given until three quarters are completed.

DESCRIPTION OF COURSES—FOREIGN LANGUAGES

5. INTERMEDIATE ITALIAN. *Four hours credit.*
Prerequisite, two years of high school Italian or one year of college Italian.
Grammar review and composition.
6. INTERMEDIATE ITALIAN. *Four hours credit.*
Prerequisite, same as for Ital. 5. Study of Capocelli's *L'Italia nel Passato e nel Presente*. Practice in conversation.
7. INTERMEDIATE ITALIAN. *Four hours credit.*
Prerequisite, same as for Ital. 5. Varied reading and conversation.

LATIN

- 1, 2, 3. ELEMENTARY LATIN. *Four hours credit each quarter.*
A terminal course designed especially for students who wish Latin as a background for the study of English and other modern languages, for science or the professions. Emphasis on vocabulary and word derivation, and on comparative grammar. No credit given until three quarters are completed.
- 5, 6, 7. INTERMEDIATE LATIN. *Four hours credit each quarter.*
Prerequisite, two years of high school Latin or one year of college Latin. Study of Wedeck's *Third Year Latin* accompanied by a thorough study of grammar. Each course may be taken independently.
- 105, 106, 107. SURVEY OF LATIN LITERATURE. *Four hours credit each quarter.*
Prerequisite, four years of high school Latin or two years of college Latin. Study of Harrington and Scott's *Selections from Latin Prose and Poetry* or a similar anthology. Each course may be taken independently.

SPANISH

- 1, 2, 3. ELEMENTARY SPANISH. *Four hours credit each quarter.*
A three quarter sequence in pronunciation, principles of grammar, and practice in reading and speaking simple Spanish. Credit is not given until the three quarters are completed.
5. INTERMEDIATE SPANISH. *Four hours credit.*
Prerequisite, two years of high school or one year of college Spanish. Review of the principles of grammar; extensive composition, and some speaking.
6. INTERMEDIATE SPANISH. *Four hours credit.*
Prerequisite, two years of high school or one year of college Spanish. Practice in reading and speaking.
7. INTERMEDIATE SPANISH. *Four hours credit.*
A continuation of Sp. 6 with the same prerequisites. Novels and short stories are read.
105. SURVEY OF SPANISH LITERATURE. *Four hours credit.*
Prerequisite, two years of college Spanish or equivalent. Plays, poems, and essays of the first half of the nineteenth century are read and literary movements studied.

DESCRIPTION OF COURSES—FOREIGN LANGUAGES

106. SURVEY OF SPANISH LITERATURE. *Four hours credit.*
A continuation of the study of nineteenth century literature. Sp. 105 is not a prerequisite.
107. SURVEY OF SPANISH LITERATURE. *Four hours credit.*
A study of the novel beginning with the costumbrista movement. Lectures on modern Spanish novelists. One novel is read in class; others are read outside.
122. INDIVIDUAL STUDIES. *Four hours credit.*
175. SPANISH READING. (Summer Session only). *Four hours credit.*
Prerequisite, at least one year of college Spanish. Designed to fit the reading abilities of the various members. Class meets two days a week for intensive reading. Extensive outside reading is reported in conference.
- 209b. SPANISH CIVILIZATION. *Four hours credit.*
Lectures in English for students and prospective teachers of Spanish. History, government, art, educational system, social structure, etc. of Spain are studied. Phases of Spanish civilization are reported.
210. SPANISH CONVERSATION. *Four hours credit.*
Prerequisite, at least two years of college Spanish or the equivalent. Exposition, narration, description, and debates serve as bases for conversation.
216. SUPPLEMENTARY READINGS IN SPANISH LITERATURE. *Four hours credit.*
Course content varies according to the needs of the students. It presupposes at least 28 hours of study of the language.
225. DON QUIJOTE. *Four hours credit.*
Prerequisite, three years of college Spanish. Readings from the Quijote, a study of the life of Cervantes, and the reading of one of his Novelas Ejemplares.
226. CLASSICAL DRAMA. *Four hours credit.*
Prerequisite, three years of college Spanish. Study of the theater in Spain under Philip III and Philip IV. Discussion of Culteranismo and Conceptismo and their effect on Spanish literature. Plays by Alarcon, Lope de Vega, and Calderon are read in class.
231. THE TEACHING OF FOREIGN LANGUAGES. *Four hours credit.*
Consideration of problems of particular concern in teaching French, Spanish, and Latin in secondary schools; functions and values of language study; courses of study; organization of materials.
322. INDIVIDUAL STUDIES IN FOREIGN LANGUAGE. *Four hours credit.*
Qualified students outline a definite problem to be undertaken, and present a typewritten paper.
399. THESIS. *Eight hours maximum credit.*

HUMANITIES

(Liberal Arts)

Bachelor of Arts Degree

The following program is required: (A) Common Courses listed on Page 30; (B) Eng. 4b, 58a, 58b, 58c, 110, 211; Speech 5 (or 16), 120. A typical program may include a selection from the following: 36 hours in the humanities; 50 hours in the social studies; 20 hours in the sciences; 15 hours in music, with individual lessons and participation in band, orchestra, and choir; eight hours in education, and 20 hours in the arts. A scholarly, creative work, usually a paper, will be presented in the final quarter of the senior year. Programs will be planned with the student's adviser.

APPROVED COURSES

Courses approved are: F. A. 1, 2, 11, 14, 17, 103a, 212, 221, 230; H. E. 70, 71, 180, 275, 288; I. A. 46a,b, 146c, 50a,b,c, 55w; Ed. 105, 277b, 296, 297; P. E. 272, 338; Mus. 2a,b,c, 52a,b,c, 58a,b,c, 152a,b,c, 276, 361, and individual lessons each quarter; Sci. 207; Astron. 181; Geol. 186; Math. 274; Econ. 100, 102, 104, 304; Geog. 10; Hist. 20, 21, 30, 31, 32; Pol. Sci. 170, 171, 274, 279; Soc. 100, 101, 202.

Description of Courses

1, 2, 3. THE BASIC COURSE IN THE HUMANITIES. *Four hours credit each quarter.*

Required of all freshmen fall, winter, and spring quarters. A systematic historical study of the great philosophical ideas from Greek times to the present. These ideas are developed from the artistic expression of the epochs studied. The course is further designed to develop active creative interests in the arts.

199. CREATIVE STUDY IN THE HUMANITIES. *Eight hours credit.*

This is an individual creative study leading to the presentation of a piece of work, usually a scholarly paper, showing a grasp of the meaning of the humanities and the interrelationships of the various fields. For seniors in the humanities only.

SPEECH AND DRAMA

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common courses listed on Page 29; (B) Eng. 4b, 211; (C) From 48 to 56 hours in speech and drama; (D) Two minors of 24 hours each, one of which may be in English or foreign language, and one outside the division. Programs will be planned with the student's adviser.

MINOR

Courses required are: Speech 125, and a 24 hour minor with courses from each of the following: (1) discussion and public speaking; (2) drama, radio and interpretation; (3) voice and diction; (4) speech correction. Speech 13 and 112 do not count toward the minor. Participation is expected in the Little Theater of the Rockies, forensics, and radio production.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

5. **READING AND SPEAKING ENGLISH.** *Four hours credit.*
This course is designed to develop a skill in oral reading and to aid the student in acquiring ease, poise, and effectiveness in speech.
13. **STORY TELLING.** *Four hours credit.*
Principles of the art of story-telling are applied in class and laboratory practice. Attention is given to arrangement and selection of stories for the several school levels.
16. **VOICE AND DICTION.** *Four hours credit.*
Provision for individual differences of each student with regard to voice difficulties.
18. **DISCUSSION AND DEBATE.** *Two hours credit both fall and winter quarters or four hours credit one quarter.*
Primarily for, but not restricted to, those students participating in the campus and intercollegiate program in discussion and debating.

DESCRIPTION OF COURSES—SPEECH AND DRAMA

62. EXTEMPORE SPEAKING. *Four hours credit.*
Experience in speaking to groups of people. Emphasis is placed on the preparation and organization of the speech.
63. FIRST COURSE IN DRAMA. *Four hours credit.*
An introduction to the basic principles of acting and dramatic production.
65. FIRST COURSE IN SCENE DESIGN. *Four hours credit.*
An introductory course in the techniques and problems of scene design and stagecraft.
- 108f. RADIO WORKSHOP. *Four hours credit.*
A beginning laboratory course in radio production.
112. CREATIVE DRAMATICS. *Four 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.
- 114, 115, 116. THEATER WORKSHOP. *Four hours credit each quarter.*
A lecture and laboratory course in all aspects of play production. Attendance at rehearsals for campus productions required.
117. ORAL INTERPRETATION. *Four 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.
120. THE ART OF STRAIGHT THINKING. *Four hours credit.*
A study of prejudices, beliefs, evidence, reasoning, and semantics as they affect thought processes involved in all forms of oral and written discourse.
125. TEACHING SPEECH AND DRAMA IN SECONDARY SCHOOLS. *Four hours credit.*
Problems in teaching speech and drama in the high school. Examination of materials for creative and formal drama. Discussion techniques.
164. INTRODUCTION TO A REMEDIAL PROGRAM IN SPEECH. *Four hours credit.*
A general introductory survey of phonetics, voice science, and speech pathology. Lectures, discussions, recordings, case studies and demonstrations.
- 208b. RADIO SPEAKING. *Four hours credit.*
The course gives an understanding and some measure of skill in utilizing the radio in the classroom and auditorium. Problems of radio production and radio appreciation are discussed.
- 208f. ADVANCED RADIO SPEAKING. (Summer Session only.) *Four hours credit.*
Prerequisite, 108f or consent of instructor. A laboratory course in radio writing, speaking and dramatic production with special emphasis on problems in school broadcasting.
214. SUMMER THEATER WORKSHOP. *Four hours credit.*
Practical experience in all aspects of production in the summer theater. Consent of instructor must be procured before registering.

DESCRIPTION OF COURSES—SPEECH AND DRAMA

215. DIRECTING HIGH SCHOOL AND COMMUNITY PLAYS. (Summer Session only). *Four hours credit.*
Reading, discussion and projects dealing with the practical problems faced in the direction of dramatic productions in high schools and in community theaters.
217. ADVANCED ORAL INTERPRETATION. (Summer Session only). *Four hours credit.*
Prerequisite, Speech 117 or consent of instructor. The development of greater artistic skill in reading various forms of literature.
218. DISCUSSION TECHNIQUES. *Four hours credit.*
(Suggested prerequisite, Speech 120). Principles and practice in organizing, conducting, and participating in round-table discussions, symposiums, debates, and forums.
221. ADVANCED SCENE DESIGN. *Four hours credit.*
Prerequisite, Eng. 65 or its equivalent. An advanced course in the techniques and problems of scenic design involving the esthetic qualities of settings, costumes, properties, and lighting.
250. SPEECH EDUCATION. (Summer Session only). *Four hours credit.*
Objectives, principles, practices, and trends in speech education in the elementary and secondary schools.
252. BUSINESS AND PROFESSIONAL SPEAKING. *Four hours credit.*
Public speaking for teachers, administrators, and others who are called upon in the course of their work to address audiences and preside over meetings.
265. CORRECTION OF SPEECH DISORDERS. (Summer Session only). *Four hours credit.*
A study of the manifestations and causes of disorders of speech with emphasis on re-education. Laboratory work in the speech clinic required as part of the course.
270. THE PSYCHOLOGY OF SPEECH. (Summer Session). *Four hours credit.*
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.
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 IN SPEECH AND DRAMA. *Four hours credit.*
Independent study in a field of specialization not provided for in formal classes. Typewritten paper required.
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.
399. THESIS. *Eight hours maximum credit.*

Division of Music

The Division of Music presents a varied program for cultural and professional experience, including individual lessons in voice, piano, organ, brass and woodwind instruments, violin and other stringed instruments. These lessons may be taken with or without credit.

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29. Ed. 150a,b,c for music students is arranged as follows: Ed. 150a, Methods, Observation and Participation (Elementary School Music) three hours credit; Ed. 150b, Methods, Observation and Participation (Secondary School Music) three hours credit; Ed. 150c, Methods, Observation, and Participation (Instrumental Music) two hours credit; (B) Mus. 2a,b,c, 50a,b,c, 52a,b,c, 58a,b,c, 99a,b,c, 152a,b,c, 153a,b,c, 155a,b,c, 250; (C) Nineteen hours of individual instruction. (D) Participation in band, orchestra, a cappella choir, instrumental or vocal ensemble each quarter (maximum of six hours credit applied to graduation); (E) One minor outside the division; (F) Electives outside the division to complete requirements for graduation; (G) Play at sight a simple piano accompaniment, sing agreeably, demonstrate a teaching knowledge of a stringed, brass, and woodwind instrument; (H) Make a creditable public appearance in either playing or singing.

Music majors are required to take a minimum of one hour of individual lessons each quarter.

MINORS

Minors are offered in vocal music, instrumental music, and for elementary education majors. Courses required are: VOCAL MUSIC MINOR—Mus. 2a,b,c, 50a,b,c, 58a,b,c; three hours of individual instruction; INSTRUMENTAL MUSIC MINOR—Mus. 2a,b,c, 50a,b,c, 99a,b,c; three hours of individual instruction; MINOR FOR ELEMENTARY EDUCATION MAJORS — Mus. 148a,

149. Maximum of six hours individual instruction. The remaining hours will be planned with the student's adviser.

Bachelor of Music Degree

Majors are offered in piano, organ, violin, orchestral instruments, voice, and composition. Emphasis is on performance and the cultural aspects of music. The student must show satisfactory aptitude for an instrument or in voice, and demonstrate his ability by playing or singing some standard composition in his field before a committee of the division, before being accepted as a candidate for the degree.

REQUIRED COURSES

First Year: Major and minor instrument or voice (12 hours); vocal or instrumental ensemble (6 hours); Mus. 2a,b,c, (or 3a,b,c); Hum. 1, 2, 3; Eng. 4a; four hours of electives.

Second Year: Major and minor instrument or voice (12 hours); vocal or instrumental ensemble (6 hours); Mus. 52a,b,c, (or 53a,b,c), 58a,b,c.

Third Year: Major and minor instrument or voice (12 hours); vocal or instrumental ensemble (3 hours); Mus. 152a,b,c, 270a,b; sixteen hours of electives.

Fourth Year: Major and minor instrument or voice (12 hours); vocal or instrumental ensemble (3 hours); Mus. 153a,b,c, 155a,b,c; sixteen hours of electives.

RECOMMENDED ELECTIVES

Recommended electives in the freshman and sophomore years: F. A. 20; P. E. 61; Speech 5; Sci. 3a, 3b; Ed. 25; Geog. 10; and Foreign Language (required of vocal majors).

Recommended electives in the junior and senior years: Econ. 102; Soc. 100; Eng. 58a, 58b, 58c, and Foreign Language.

COMBINED DEGREES

A five-year course of study is offered leading to the combined degrees of Bachelor of Arts with a teaching certificate and the Bachelor of Music.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

2a,b,c. SIGHT SINGING, EAR TRAINING AND NOTATION *Three hours credit each quarter.*

To acquaint the student with sight reading and rote materials, and to serve as an introduction to Music 52a,b,c.

3a,b,c. HARMONY. *Three hours credit each quarter.*

Required for Bachelor of Music degree. A study of the elements of harmony through writing, analysis, and hearing, including the structure and movement of chords through chords of the seventh, ninth, eleventh, and thirteenth.

21. INSTRUMENTAL ENSEMBLE. *One hour credit.*

Classes in woodwind quintet, string quartet, string trio, brass ensemble, and other small instrumental groups.

22. VOCAL ENSEMBLE. *One hour credit.*

Vocal trios, quartets, and other small groups receive training in this course with a view toward being of service in the community.

30. INDIVIDUAL INSTRUCTION IN VOICE. *One hour credit.*

To experience and understand the correct use of the singing and speaking voice. Special emphasis is placed on building a useful song repertoire and coaching in performance.

31. INDIVIDUAL INSTRUCTION IN PIANO. *One hour credit.*

32. INDIVIDUAL INSTRUCTION IN VIOLIN (or other stringed instruments). *One hour credit.*

33. INDIVIDUAL INSTRUCTION IN ORGAN. *One hour credit.*

Instruction is given in pipe organ and Hammond organ.

34. INDIVIDUAL INSTRUCTION IN PERCUSSION. *One hour credit.*

35. INDIVIDUAL INSTRUCTION IN BRASS AND REED INSTRUMENTS. *One hour credit.*

40. BEGINNING ORCHESTRA. *One hour credit.*

This organization is devoted to those whose playing is in the less advanced stage.

41. BEGINNING BAND. *One hour credit.*

This organization is devoted to those whose playing is in the less advanced stage.

DESCRIPTION OF COURSES—MUSIC

42. COLLEGE ORCHESTRA. *One hour credit.*
This organization is open to all who show sufficient qualifications.
43. CONCERT BAND. *One hour credit.*
44. A CAPPELLA CHOIR. *One hour credit.*
45. PIANO CLASS LESSONS. *One hour credit.*
46. PIANO CLASS METHODS. *Two hours credit.*
- 50a,b,c. INTRODUCTION TO MUSIC EDUCATION. *Two hours credit each quarter.*
A preparatory course for special teachers of school music. Course procedures include observation and participation in music in the laboratory school. A three quarter sequence to be taken in the student's sophomore year.
51. PHILHARMONIC CHOIR. *No credit.*
A course in choral singing required of all music majors.
- 52a,b,c. HARMONY. *Three hours credit each quarter.*
Prerequisites, Music 2a,b,c. A year's course meeting four days a week.
- 53a,b,c. HARMONY. *Three hours credit each quarter.*
Required for Bachelor of Music degree. A continuation of Harmony 3a,b,c. Includes a study of modulation, altered chords, augmented sixths, enharmonism, and a discussion of impressionistic harmony and atonal styles.
- 58a,b,c. HISTORY OF MUSIC. *Two hours credit each quarter*
- 99a,b,c. BEGINNING INSTRUMENTS. *Two hours credit each quarter.*
- 148a,b. MUSIC FUNDAMENTALS FOR ELEMENTARY TEACHERS. *Four hours credit each quarter.*
A two-quarter sequence in music for elementary majors.
149. MUSIC METHODS AND MATERIALS FOR ELEMENTARY TEACHERS. *Four hours credit.*
Prerequisites, Music 148a,b. A course for rural and elementary teachers specifically designed to give a practical working knowledge of music in all elementary grades.
151. PRINCIPLES OF PIANO TEACHING. *Three hours credit.*
Observation and study of types of piano pupils, analysis of specific problems and demonstration of procedure and criteria for choosing teaching materials.
- 152a,b,c. COUNTERPOINT. *Two hours credit each quarter.*
Prerequisites, Music 52a,b,c.
- 153a,b,c. INSTRUMENTATION. *Two hours credit each quarter.*
Prerequisites, Music 152a,b,c.

DESCRIPTION OF COURSES—MUSIC

- 155a,b,c. TECHNIQUE AND PRACTICE OF CONDUCTING. *Eight hours credit for three quarters.*
251. ORGANIZATION AND TEACHING OF SECONDARY SCHOOL MUSIC. *Four hours credit.*
Problems of the general music class, the changing voice, improvement of music reading, teaching music appreciation, organization and teaching of senior high school music, and the problems of high school music activities.
254. PRINCIPLES OF MUSIC EDUCATION. *Four hours credit.*
The philosophy of musical education, evaluation of current practices in teaching music reading, rhythmic experience, creative music, and the musical and non-musical child.
256. PSYCHOLOGY OF MUSIC. *Four hours credit.*
The subjects included in this course are measurements of musical talent, tests and measurements in music, and the psychology of musical performance.
257. PHYSICS OF MUSICAL INSTRUMENTS. *Four hours credit.*
The objectives of this course are to develop an understanding of the physical principles involved in the production of music.
262. SYMPHONIC LITERATURE. *Four hours credit.*
263. ORGANIZATION AND TEACHING OF ELEMENTARY SCHOOL MUSIC. *Four hours credit.*
265. ORGANIZATION AND TEACHING OF INSTRUMENTAL MUSIC. *Four hours credit.*
266. SPECIAL PROBLEMS IN PUBLIC SCHOOL MUSIC. *Four hours credit.*
Prerequisites, Music: 50a,b,c, and student teaching. Students will be granted ample opportunity to study individual problems growing out of their student teaching experience.
- 270a,b. ADVANCED HARMONY AND FORM ANALYSIS. *Four hours credit each quarter.*
This course deals with the many kinds of modulations and altered chords, as well as the study of the harmonic and formal aspects of musical composition.
274. PROBLEMS OF MUSIC APPRECIATION (Summer Session only). *Four hours credit*
Appreciation defined, evaluation of the present approach, and construction of an original program for elementary and secondary schools.
275. PROBLEMS IN ORCHESTRAL AND CHORAL CONDUCTING (Summer Session only). *Four hours credit.*
Study of instrumental and choral conducting.
276. SURVEY OF MUSIC IN AMERICA (Summer Session only). *Four hours credit.*
A study of the growth and development of all phases of American music.

DESCRIPTION OF COURSES—MUSIC

277. HISTORY OF MUSICAL THEORY (Summer Session only). *Four hours credit.*
Musical composition traced from Greek modes to the present.
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 IN MUSIC. *Two to four hours credit for one problem; a maximum of eight hours credit.*
323. COMPARATIVE VOICE METHODS AND MATERIALS (Summer Session only). *Four hours credit.*
Individual lessons required.
324. COMPARATIVE VIOLIN METHODS AND MATERIALS (Summer Session only). *Four hours credit.*
Individual lessons required.
325. COMPARATIVE PIANO METHODS AND MATERIALS (Summer Session only). *Four hours credit.*
Individual lessons required.
361. MUSICAL AESTHETICS (Summer Session only). *Four hours credit.*
Special emphasis is placed on the implication of aesthetics in teaching music.
371. ADVANCED COMPOSITION AND ORCHESTRATION (Summer Session only). *Four hours credit.*
372. INSTRUMENTAL SUPERVISION (Summer Session only). *Four hours credit.*
373. VOCAL SUPERVISION (Summer Session only). *Four hours credit.*
399. THESIS. *Eight hours credit.*

Division of the Sciences

The Division of the Sciences includes the fields of Biology, Botany, Chemistry, General Science, Mathematics, Physics, Professionalized Science, and Zoology.

MATHEMATICS

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) Math. 75a,b, 76, 175, 176, 177a, (or 78a,b,c); (C) Twenty-four hours (or twenty-eight if 78a,b,c sequence is followed) from the following: Math. 77a, 170, 177b, 272, 273, 274, 277; (D) One minor, preferably in science; (E) Elective courses to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: Math. 75a,b, 76, 177a, (or 78a,b,c); eight hours (or twelve hours if 78a,b,c sequence is followed) of electives.

Bachelor of Arts Degree (Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) Math. 75a,b, 76, 177a (or 78a,b,c), 175, 176; (C) Twenty-four hours (or twenty-eight if 78a,b,c sequence is followed) from the following: Math. 77a, 170, 177b, 272, 273, 274, 277; (D) A twenty-four hour minor which may be in science; (E) Elective courses to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

Courses required are: Math. 75a,b, 76, 177a (or 78a,b,c); eight hours (or twelve hours if 78a,b,c sequence is followed) of electives.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

MATHEMATICS

75a,b. COLLEGE ALGEBRA. *Four hours credit each quarter.*

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.

76. PLANE TRIGONOMETRY. *Four hours credit.*

Prerequisite, Math. 75a or three years of secondary mathematics. A study of the trigonometric functions and their application, both theoretical and practical, in the solution of the triangle with emphasis upon the logarithms in computation.

77a. SOLID GEOMETRY. *Four hours credit.*

Extends the deductive methods of plane geometry to three dimensions; shows the many applications of space concepts to physical problems and lays the foundation for more advanced work in the field of three dimensions.

78a,b,c. COLLEGE MATHEMATICS. *Four hours credit each quarter.*

Prerequisite, three years of secondary school mathematics. These three courses parallel Math. 75a,b, 76, and 177a but constitute a sequence of algebra, trigonometry, analytic geometry and the calculus.

170. MATHEMATICAL INSTRUMENTS AND SURVEYING. *Four hours credit.*

Prerequisites, Math. 75a,b, and 76 or 78a,b,c. Acquaints the student with the slide rule, the sextant, the level, and the transit. Emphasizes the use of these instruments in the solution of problems obtained from the field.

175. DIFFERENTIAL CALCULUS. *Four hours credit.*

Prerequisites, Math. 75a,b, 76, 177a, or equivalent. Presents the concept of the derivative and its importance in solving problems in the scientific field.

DESCRIPTION OF COURSES—MATHEMATICS

176. INTREGAL CALCULUS. *Four hours credit.*
Prerequisite, Math. 175. Relates intregation and differentiation; develops the formulas and skills of integration; and emphasizes the application of the definite integral to the problems of science.
- 177a. ANALYTIC GEOMETRY I. *Four hours credit.*
Prerequisites, Math. 75a,b, 76. Explains and applies 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.
- 177b. ANALYTIC GECMETRY II. *Four hours credit.*
Prerequisite, Math. 177a. A continuation of Math. 177a, emphasizing such topics as transformation of coordinates, tangents, polar coordinates, parametric equations, and Cartesian coordinates in space.
272. PRINCIPLES OF TEACHING SECONDARY MATHEMATICS. *Four hours credit.*
For those who must give thought to the place and function of mathematics in the secondary school program. The course deals with instructional problems and specific difficulties which students encounter.
273. MODERN EUCLIDEAN GEOMETRY. *Four hours credit.*
An introduction to the ideas and methods of modern geometry; an extension of Euclidean geometry to theorems not included in high school geometry.
274. HISTORY OF MATHEMATICS. *Four hours credit.*
A general view of the development and contributions of mathematics; a more detailed view of arithmetic, algebra, geometry, and evolution of symbolism; considerations of both applied and theoretical mathematics.
- 275a,b. ADVANCED CALCULUS. *Four hours credit each quarter.*
Prerequisites, Math. 175, 176. A continuation of those topics of differential and integral calculus which are not adequately treated in Math. 176. The subject matter deals with infinite series, indeterminate expressions, partial differentiation, and applications of both differentiation and integration.
277. THEORY OF EQUATIONS. *Four hours credit.*
Prerequisites, Math. 175. Deals with functional relationships, graphic representation, and solution of functions. Complex numbers, determinates, and symmetric functions.
372. MATHEMATICS OF FINANCE AND INSURANCE. *Four hours credit.*
Prerequisite, Math. 177a. A consideration of simple interest and discount, logarithms, graphic representation, compound interest, annuities, bonds, amortization, building and loan associations, and life insurance.
373. THEORY OF NUMBERS. *Four hours credit.*
Prerequisite, Mat.a. 176. Properties of integers, congruences, quadratic residues, reciprocity law, binary quadratics.

DESCRIPTION OF COURSES—MATHEMATICS

374. PROJECTIVE GEOMETRY. *Four hours credit.*
Prerequisite, Math. 176. An elementary treatment of the most fundamental propositions of projective geometry from the synthetic point of view with emphasis upon the power of visualization and geometric analysis.
376. DIFFERENTIAL EQUATIONS. *Four hours credit.*
Prerequisites, Math. 175, 176. Introduces the student to the extensive field of differential equations, and their application to the solution of problems in related fields of science.
377. VECTOR ANALYSIS. *Four hours credit.*
Prerequisite, Math. 176. Fundamental operations of vector analysis. Application to mechanics and mathematical physics.
379. MODERN ALGEBRA. *Four hours credit.*
Prerequisite, Math. 176. An introduction of the student to higher algebra with emphasis upon the most fundamental facts, and important results of algebra, which are new to the student.

SCIENCE

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) Chem. 40a, 40b, 40c; Phys. 61, 62, 63; Bot. 21, 22, 23; Zool. 11, 12; Sci. 205; (C) Twenty-four hours of electives in physical or biological science; (D) One 24 hour minor, preferably in mathematics; (E) Additional electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

The minor may be obtained in biological or physical science. Courses required are: biological science—Bot. 21, 22, 23; Zool. 11, 12; four hours of electives in biological science; physical science—Chem. 40a, 40b, 40c; Phys. 61, 62, 63.

Bachelor of Arts Degree (Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) Chem. 40a, 40b, 40c; Phys. 61, 62, 63; Bot. 21, 22, 23; Zool. 11, 12; Sci. 205; (C) Twenty-four; hours of electives in physical or biological science; (D) One minor which may be in mathematics; (E) Additional electives to complete requirements for graduation. Programs will be planned with the student's adviser.

MINOR

The minor may be obtained in biological or physical science. Courses required are: biological science—Bot. 21, 22, 23; Zool. 11, 12; four hours of elective in biological science; physical science—Chem. 40a, 40b, 40c; Phys. 61, 62, 63.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

NON-SPECIALIZED SCIENCE

- 3a. INTRODUCTION TO PHYSICAL SCIENCE. *Four hours credit.*
The study of important general principles in astronomy, physics, chemistry, and geology. Concepts designed to help the student to interpret the world about him. Science majors and minors will normally take this course before taking Phys. 61 and Chem. 40a.
- 3b. INTRODUCTION TO BIOLOGICAL SCIENCE. *Four hours credit.*
Major concepts dealing with the nature of life, human reproduction, heredity, and evolution are studied. Science majors, and minors will normally take this course before taking Bot. 21 or Zool. 11.
205. INTEGRATED SCIENCE. *Four hours credit.*
For science majors in their senior year. Organized to integrate the student's knowledge of science and to show the application of science principles to the interpretation of life situations.
207. CONSERVATION OF NATURAL RESOURCES. *Four hours credit.*
Designed to give students an overview of natural resources, what is being done, and what should be done to conserve them. Field trips required.

DESCRIPTION OF COURSES—SCIENCES

208. FIELD SCIENCE. *Four hours credit.*
Planned especially for elementary and secondary school teachers. Deals with geological features and the plant and animal life of this region. Field trips required. (Graduate Science majors will not take this course).
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.
300. INTRODUCTION TO GRADUATE STUDY (Summer Session only). *Four hours credit.*
A study of 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.

PROFESSIONALIZED SCIENCE

191. SCIENCE IN THE ELEMENTARY SCHOOL. *Four hours credit.*
Prerequisites, Sci. 3a and 3b. Study of objectives, materials, and methods of teaching science in the grades.
292. SPECIAL PROBLEMS IN TEACHING ELEMENTARY SCIENCE. *Four hours credit.*
Study of problems of teaching and associated curricular and organization problems confronted by supervisors and teachers.
294. TEACHING SEX EDUCATION. (Summer Session only). *Four hours credit.*
An analysis of the problems of youth in this area of human relationship. The analysis is followed by an examination of the attitudes, subject matter, and teaching methods essential for the person interested in this area of general education.
396. IMPROVEMENT OF SCIENCE INSTRUCTION IN SECONDARY SCHOOLS (Summer Session only). *Four hours credit.*
Teachers' instructional problems are studied cooperatively with other science teachers and authorities in science education. This course also provides opportunity for supervisors and administrators to study methods of improving the science curriculum of their schools.
399. THESIS. *Eight hours credit.*

BIOLOGY

231. EVOLUTION. *Four hours credit.*
Prerequisite, Zool. 13. A study of the factors that have been proposed as a cause of gradual development and the evidences supporting the belief in evolution. Emphasis is placed on the evolution of man and his culture.

232. GENETICS AND EUGENICS. *Four hours credit.*
A study of the fundamental laws of heredity and their application to both plants and animals and to man. The present trend of the race is emphasized.
238. BIO-ECOLOGY. *Four hours credit.*
Prerequisites, Zool. 11, 12, 13; Bot. 21, 22, 23. Designed to enable students to study the relation of plants and animals to their environment. Much of the work will be done in the field.

BOTANY

21. GENERAL BOTANY. *Four hours credit.*
An elementary study of the structure and function of flowering plants and their relation to man.
22. GENERAL BOTANY. *Four hours credit.*
A study of the lower forms of plants. Begins with the different forms of algae and includes the fungi, liverworts, and mosses.
23. GENERAL BOTANY. *Four hours credit.*
Treats of the higher forms of plants from the ferns and their relatives up through the gymnosperms and angiosperms. Evolutionary development is emphasized.
122. GENERAL BACTERIOLOGY. *Four hours credit.*
Study of bacteria yeasts and molds and their effects upon health, foods, and sanitation.
226. BOTANICAL TECHNIQUE AND PLANT HISTOLOGY. *Four hours credit.*
Prerequisites, Bot. 21, 22, 23, or their equivalent. The study of plant tissues and the science of killing, staining, and making botanical material into permanent microscopic mounts.
227. SYSTEMATIC BOTANY (Summer Session only). *Four hours credit.*
Prerequisite, Bot. 23 or its equivalent. Organized to give the student a knowledge of the structural relationships of the different groups of flowering plants and skill in using the manual to identify them.
321. PLANT PHYSIOLOGY. *Four hours credit.*
Prerequisites, Bot. 21, 22, and 23 or their equivalent. Planned to give students a functional knowledge of absorption, transpiration, the transpiration stream, food synthesis, translocation, digestion, and respiration, and the relationship of these processes to plant culture.
328. PLANT ECOLOGY (Summer Session only). *Four hours credit.*
Prerequisites, Bot. 21, 22, and 23. Organized to give the student an understanding of plant successions resulting from the interrelation and interaction of plant life and the factors of the environment.

CHEMISTRY

- 40a. PRINCIPLES OF CHEMISTRY. *Four hours credit.*
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, and pre-engineering students. No previous knowledge of chemistry is necessary, but high school algebra is essential.
- 40b. GENERAL INORGANIC CHEMISTRY. *Four hours credit.*
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. *Four hours credit.*
Prerequisite, Chem. 40a. 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.
- 41a,b. INTRODUCTION TO CHEMISTRY. *Four hours credit each quarter.*
This series of courses parallels Chem. 40a,b, but is designed for Home Economics teaching majors, dietitians, pre-nursing students, and pre-medical technicians. It includes applications of particular interest to these groups of students.
- 41c. INTRODUCTORY ORGANIC CHEMISTRY. *Four hours credit.*
Prerequisite, Chem. 41a. This course parallels Chem. 40c but is designed for Home Economics teaching majors, dietitians, pre-nursing students, and pre-medical technicians.
48. FOOD ANALYSIS. *Four hours credit.*
Prerequisite, Chem. 40c or 41c. This course deals with some of the techniques of qualitative and quantitative analysis of foods for certain inorganic and organic constituents.
142. ORGANIC CHEMISTRY. *Five hours credit.*
Prerequisite, Chem. 40c or 41c. 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. *Five hours credit.*
Prerequisite, Chem. 40b or 41b and a background in algebra extending through logarithms. 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. *Five hours credit.*
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.

DESCRIPTION OF COURSES—SCIENCES

- 240a,b. PHYSICAL CHEMISTRY. *Six hours credit each quarter.*
Prerequisites, Chem. 142, 145; Phys. 63; and Math. 176. This course is an advanced study of the theoretical principles upon which chemistry is based. Opportunity is given in the laboratory to demonstrate the validity of physical laws considered in the class work.
243. ORGANIC CHEMISTRY. *Five hours credit.*
Prerequisite, Chem. 142. This course is a continuation of Chem. 142.
246. QUANTITATIVE ANALYSIS. *Five hours credit.*
Prerequisite, Chem. 145. This course is a continuation of Chem. 145, with special attention given to the analysis of complex mixtures.
247. BIOCHEMISTRY. *Four hours credit.*
Prerequisite, Chem. 40c or 41c. An introduction to the chemistry of foods, nutrition, and body processes is given.
249. LABORATORY PROBLEMS. *A maximum of eight hours credit on the undergraduate level and twelve hours credit on the graduate level.*
Prerequisite, consent of the teacher. Individual work on laboratory problems in which the student is interested.
- 341a,b. SEMINAR IN CHEMISTRY. *One hour credit each quarter.*
Prerequisite, consent of the teacher. This course gives the graduate student an opportunity to report on some topic of interest treated in recent literature, as well as profit by the reports of others.
342. SURVEY OF ORGANIC CHEMISTRY. *Three hours credit.*
Prerequisites, Chem. 243, Phys. 361. This course affords a somewhat detailed survey of the field of organic chemistry at an advanced level, with special attention to recent literature. There is no laboratory work.
343. QUALITATIVE ORGANIC ANALYSIS. *Three to five hours credit.*
Prerequisite, Chem. 243. The course deals with the identification of organic compounds in the laboratory.
344. ADVANCED INORGANIC CHEMISTRY. *Four hours credit.*
Prerequisites, Chem. 145; Phys. 368, 366. This course, without laboratory, offers an opportunity for discussion of selected topics in inorganic chemistry based upon recent literature. It is planned especially for the teacher of chemistry to give a survey of certain chemical principles and descriptive inorganic chemistry after he has some understanding of atomic and molecular structure.

GEOLOGY AND ASTRONOMY

186. GENERAL GEOLOGY. *Four hours credit.*
A course designed to develop an understanding of the surface of the earth and the processes and forces that have been active in changing it.
287. HISTORICAL GEOLOGY. *Four hours credit.*
Prerequisite, Geol. 186. A study of the history of the earth and its plant and animal life from the earliest times.

DESCRIPTION OF COURSES—SCIENCES

181. **DESCRIPTIVE ASTRONOMY.** *Four hours credit.*
A study of space and heavenly bodies. The student learns to recognize the planets, principal constellations, and the stars visible in this latitude.
281. **ASTRONOMY.** (Summer Session only). *Four hours credit.*
A consideration of space and the heavenly bodies which it contains. Includes spectroscopy as applied to astronomy, star distances, classification and magnitude of stars, as well as nebulae.

METEOROLOGY AND AERONAUTICS

150. **PHYSICS OF THE AIRPLANE (AERODYNAMICS).** *Four hours credit.*
This course follows the outline of the C. A. A. for a study of the general service of aircraft and meets the needs of the specialized student who intends to become a teacher of the science of aviation.
151. **AIRCRAFT POWER PLANTS.** *Four hours credit.*
A study of the principles, structures and operation of all types of heat engines, including automobile, airplane and diesel engines and their everyday application. A discussion of the modern developments of aircraft power plants such as the jet, turbo-jet and pro-jet power plants will be included.
152. **NAVIGATION.** *Four hours credit.*
This course is designed to meet the needs of the teacher of the science of aviation and to meet the C. A. A. requirements of study for those who intend to qualify for the private pilot's certificate. It follows the approved outline of the C. A. A.
154. **BASIC GROUND SCHOOL.** *Four hours credit.*
A course designed to provide for instruction in the subjects of civil air regulations, general service of aircraft, navigation, and meteorology. Meets the C. A. A. requirements for such a course.
158. **CLIMATOLOGY.** *Four hours credit.*
Factors affecting climate, climates of the world, their causes, classification, characteristics, and variability; climate and man.
159. **METEOROLOGY.** *Four hours credit.*
Weather elements such as temperature, pressure, wind, moisture, air masses, and storms. Maps and forecasting. Weather as related to agriculture and aviation.

PHYSICS

61. **GENERAL PHYSICS.** *Four hours credit.*
The first quarter of the general course in physics treats of the laws, principles, and generalizations of mechanics and heat.
62. **GENERAL PHYSICS.** *Four hours credit.*
Prerequisite, Phys. 61. The second quarter of the general course in physics treats of the principles, laws, and generalizations in electricity.

63. GENERAL PHYSICS. *Four hours credit.*
Prerequisite, Phys. 62. The third quarter of the general course in physics treats of the laws, principles, and generalizations concerning sound, light, and atomic physics.
65. HOUSEHOLD PHYSICS. *Four hours credit.*
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.
68. ELEMENTARY ELECTRICITY. *Four hours credit.*
A course designed for the student who needs a fundamental background in the general laws, principles, and generalizations of electricity in everyday life.
166. ELECTRONICS. *Five hours credit.*
This is a general course in electronics and electricity as applied to the reception and transmission of radio. Stress is placed upon the applications to radio in everyday living.
167. ELEMENTARY PHOTOGRAPHY. *Five hours credit.*
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.
- 264a. MECHANICS AND HEAT. *Four hours credit.*
Prerequisites, Phys. 63 and Math. 176. 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 the principles.
- 264b. GENERAL ELECTRICITY. *Four hours credit.*
Prerequisites, Phys. 63 and Math. 176. 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. SOUND, LIGHT, AND WAVE MOTION. *Four hours credit.*
Prerequisites, Phys. 64 and Math. 176. 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.
267. ADVANCED PHOTOGRAPHY. *Five hours credit.*
Prerequisites, Phys. 63, 167; Chem. 40b,c. An advanced course in the principles of photography.
361. MOLECULAR STRUCTURE. *Four hours credit.*
Prerequisites, Chem. 40b,c; Phys. 63; and Math. 176. The course will consist of discussions of the modern theories of the structure of molecules based upon the evidences of spectroscopy, theories of ionization and the theories of valence.

DESCRIPTION OF COURSES—SCIENCES

366a,b. SEMINAR IN PHYSICS. *One hour credit each quarter.*

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, Phys. 63; Chem. 40b; Math. 176. This course is designed as an advanced course in modern atomic theory, nuclear structure, and their relationship to fundamental physical and chemical theory.

369. ELECTRO-MAGNETIC RADIATIONS. *Four hours credit.*

Prerequisites, Phys. 264c; Chem. 40b; and Math. 176. This is an advanced course consisting of a study of all known radiations and their properties. Emphasis is placed upon the principles of light, spectroscopy, and modern theory.

ZOOLOGY

11. GENERAL ZOOLOGY. *Four hours credit.*

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. *Four hours credit.*

Prerequisite, Zool. 11. A course in the anatomy and physiology of the vertebrate animals. Selected species will be used for laboratory study.

114. BIRD STUDY. *Four 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 be taught how to identify the birds of the region.

115. ELEMENTARY ENTOMOLOGY. *Four hours credit.*

A study of the life history, habits, habitats, and economic importance and controls of the common insects of the region.

117. HUMAN PHYSIOLOGY. *Four hours credit.*

Prerequisite, Zool. 12 or equivalent. This course is planned to help the student understand the normal functioning of the body and encourage him to arrive at practical health deductions.

211. COMPARATIVE MORPHOLOGY OF THE VERTEBRATES. *Five hours credit.*

Prerequisite, Zool. 12 or equivalent. A detailed study of the systems of organs of the vertebrates. The students will be expected to make careful dissections of selected types.

DESCRIPTION OF COURSES—SCIENCES

215. VERTEBRATE EMBRYOLOGY. *Five hours credit.*
Prerequisite, Zool. 12 or equivalent. A study of the embryology of the birds and the mammal designed to provide an understanding of the early development of the human body.
218. ANIMAL HISTOLOGY AND MICROSCOPIC TECHNIQUES. *Five hours credit.*
Prerequisite, Zool. 12 or equivalent. The skills of killing, staining, and preparing animal tissue for study is combined with the study of the types of tissues in the animal body.
316. VERTEBRATE ORGANOGENY. *Four hours credit.*
Prerequisites, Zool. 215. A continuation of Zool. 215; arranged to help the student to understand how the organs of the body are developed from the germ layers.
317. ENDOCRINOLOGY. *Four hours credit.*
Prerequisites, Zool. 117. A detailed study of the endocrine system including its relation to physiological functions and to behavior.

Division of the Social Studies

The Division of the Social Studies includes the fields of:
(1) General Social Studies, (2) Specialized Social Studies: Economics, Geography, History, Political Science, and Sociology, (3) Professional Social Studies, and (4) Social Research.

Bachelor of Arts Degree (With Teaching Certificate)

MAJOR

The following program is required: (A) Common Courses listed on Page 29; (B) Social Studies courses distributed as follows: eight hours of economics, including Econ. 100; eight hours of geography, including Geog. 10; eight hours of political science, including Pol. Sci. 170; eight hours of sociology, including Soc. 101; Hist. 20, 21 in sequence, Hist. 30, 31, 32 in sequence; Geog. 147 or Hist. 267; S. S. 200; (C) Twelve additional hours in the social studies; (D) One 24 hour minor outside the division; (E) Electives outside the division to complete requirements for graduation. Programs will be planned with the student's adviser.

Note: Students who intend to do graduate work in any of the specialized social studies should consult the rules of the graduate school on Page 37 to be sure they pursue sufficient undergraduate courses to admit them to graduate study in the area of their choice.

MINORS

TWENTY-FOUR HOUR MINOR for students who will teach in secondary school: Hist. 20, 21, and Hist. 31, 32, and eight hours elected from economics, geography, political science, and sociology. It is desirable to add S. S. 150b.

THIRTY-SIX HOUR MINOR for students who will teach in secondary schools: Hist. 20, 21, and Hist. 31, 32, and 20 hours from economics, geography, political science, and sociology. It is desirable to add S. S. 150b.

Bachelor of Arts Degree (Liberal Arts)

MAJOR

The following program is required: (A) Common Courses listed on Page 30; (B) From 48 to 72 hours apportioned among economics, geography, history, political science, and sociology; (C) One 24 hour minor outside the division; (D) Electives to complete requirements for graduation.

Fields of interest may be emphasized in the major and some courses may be taken in international relations, public administration, or social work background. A 48 hour major may be arranged in history. Programs will be planned with the student's adviser.

MINOR

A 24 hour minor may be arranged in economics, geography, history, political science, or sociology; geography and history of Europe or Latin America, human or international relations, public administration or social work background.

GRADUATE STUDY

Course work will be outlined by the student's major professor.

Description of Courses

GENERAL SOCIAL STUDIES

81. SOCIAL RELATIONS. *Four hours credit.*
Nature of social science, integration of subject matter offerings in general education, social behavior based on data from anthropology, social psychology and sociology, maintenance of the family, education, intra and intergroup relations.
82. AMERICAN LIFE AND INSTITUTIONS. *Four hours credit.*
Prerequisite, S.S. 81. Physical backgrounds, economic foundation, theory and practice of representative government, problems of the United States in the new age.
83. CONTEMPORARY WORLD CIVILIZATION. *Four hours credit.*
Prerequisite, S.S. 81, 82. Geographical and historical perspectives; Occidental, Oriental, and Russian civilizations compared; problems of war and peace.
200. SOCIAL PHILOSOPHY. *Four hours credit.*
An integration of the social studies, the search for ideal social relations and organization; ways of making social participation of worth and significance.

PROFESSIONAL SOCIAL STUDIES

- 150b. TEACHING THE SOCIAL STUDIES IN THE SECONDARY SCHOOL. *Four hours credit.*
Materials and methods for teaching social studies in the secondary school.
213. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL SOCIAL STUDIES. *Four hours credit.*
An advanced course in the teaching and supervision of the social studies in the elementary school dealing with the most recently developed thought and practices.
214. METHODS OF OCCUPATIONAL AND VOCATIONAL INSTRUCTION IN SOCIAL STUDIES. *Four hours credit.*
The occupations of the United States and approved procedures for teaching them and for occupational guidance.
305. IMPROVEMENT OF INSTRUCTION IN SECONDARY SCHOOL SOCIAL STUDIES. *Four hours credit.*
The reorganization and improvement of social studies in secondary schools; individual student problems considered; laboratory and seminar procedures.

SOCIAL RESEARCH

120. INDIVIDUAL STUDIES. *Two to eight hours credit.*
Individual undergraduate study under the guidance of a staff member in any area of the Division. Field of credit to be designated. Available only on consent of the instructor concerned.
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. *Two to eight hours credit.*
Individual graduate study under the guidance of a staff member in any area of the Division. Field of credit to be designated. Available only on consent of the instructor concerned. Paper required.
399. THESIS. *Eight hours credit.*

ECONOMICS

100. PRINCIPLES OF ECONOMICS. *Four hours credit.*
Principles of economic relationships, with emphasis on the tools and techniques of economic thinking relating to value, rent, interest, wages, profits, prices, and money.
102. CONTEMPORARY ECONOMIC PROBLEMS. *Four hours credit.*
Vital economic problems of modern society, particularly labor issues, agricultural adjustment, and price stabilization. Recommended to follow Econ. 100.

DESCRIPTION OF COURSES—SOCIAL STUDIES

103. PERSONAL SAVINGS AND INVESTMENTS. *Four hours credit.*
Day-to-day problems of the small investor, including home ownership, savings plans, insurance coverage, and stocks and bonds ownership.
104. CONSUMER ECONOMICS. *Four hours credit.*
Economic problems of the consumer: standards, buying, cooperatives, taxes and monopolies in relation to consumer prices.
105. MARKETING. *Four hours credit.*
Functions performed by the various agents in distribution combined with a study of the principal current and prospective marketing channels.
106. MONEY AND BANKING. *Four hours credit.*
Monetary and banking systems; managed currencies, the Federal Reserve System, World Stabilization Funds, and recent banking legislation are examined.
200. LABOR-MANAGEMENT RELATIONS. *Four hours credit.*
Collective bargaining, job analysis, government regulation, industrial organization for the human aspects of efficiency.
201. PUBLIC FINANCE. *Four hours credit.*
Structure of government revenues and expenditures at federal, state, and local levels; the validity of various forms of taxation and budgetary procedures.
202. WORLD ECONOMICS. *Four hours credit.*
World resources and peoples, international and inter-regional accounts, world trade, capital movements, financial mechanisms, current world economic conditions.
207. COMPARATIVE ECONOMIC SYSTEMS. *Four hours credit.*
A detailed study of the economic systems of the major nations of the world today.
301. PROBLEMS IN ECONOMIC BALANCE. *Four hours credit.*
The problem of adapting economic institutions to unstable conditions; business cycles; suggestions for economic stability.
303. ECONOMIC ANALYSIS OF AMERICAN INDUSTRY. *Four hours credit.*
Structure and characteristics of American industry. Problems arising from competition and new technologies. Business policy.
304. HISTORY OF ECONOMIC THOUGHT. *Four hours credit.*
A historical and comparative study of economic theories. Current theories contrasted. A seminar course.

GEOGRAPHY

10. **WORLD GEOGRAPHY.** *Four hours credit.*
Tools of world geography; world survey of the interrelationships of man and his culture to the climates, vegetation, animal life, minerals, soils, and surface features of the earth. Recommended for the freshman year.
48. **UNITED STATES.** *Four hours credit.*
A study of regions and their interdependence. Land use, social, and economic problems emphasized.
112. **ECONOMIC GEOGRAPHY.** *Four hours credit.*
Geographic and economic conditions affecting the products, industries, commerce, and resources of the world. Special emphasis on the United States.
143. **EUROPE.** *Four hours credit.*
Physical and cultural patterns. The nations of Europe. Their regions, cultures, social and economic organizations with resulting conflicts.
147. **LATIN AMERICA.** *Four hours credit.*
Mexico and the countries of South America; regions, cultures, economics, social, and political conditions.
162. **METEOROLOGY.** *Four hours credit.*
(Same as Sci. 159). Weather elements such as temperature, pressure, wind, moisture, air masses, and storms. Maps and forecasting. Weather as related to agriculture and aviation.
186. **GENERAL GEOLOGY.** *Four hours credit.*
A course designed to develop an understanding of the surface of the earth and the processes and forces that have been active in changing it.
206. **CONSERVATION OF NATURAL RESOURCES.** *Four hours credit.*
(Same as Sci. 207). Conservation and use of soils, water, grasslands, forests, wildlife, and minerals in terms of present and future welfare.
216. **MAP INTERPRETATION.** *Four hours credit.*
Map projections, scales, and symbols. Reading and interpretation of special purpose maps such as contour, physiographic, weather, commodity and climatic. Practice in simple map construction.
244. **ASIA.** *Four hours credit.*
The countries of Asia in terms of their climates, regions, cultures, cultural landscapes, social organizations, and economic activities.
246. **GEOGRAPHICAL INFLUENCES IN AMERICAN HISTORY.** *Four hours credit.*
The effects of such physical factors as climate, soil, islands, rivers, mountains, natural vegetation, and other resources in the discovery, settlement, expansion, and development of America.

DESCRIPTION OF COURSES—SOCIAL STUDIES

355. GEOGRAPHY OF THE ROCKY MOUNTAINS. *Four hours credit.*
An intensive study of selected areas and problems of the Rocky Mountains and Great Plains.
387. HISTORICAL GEOLOGY. *Four hours credit.*
Prerequisite, Geol. 186 or permission of instructor. A study of the history of the earth and its plant and animal life from the earliest times.
370. POLITICAL GEOGRAPHY. *Four hours credit.*
Evaluation of the elements of political geography with their application to present world problems.

UNITED STATES HISTORY

20. UNITED STATES HISTORY (to 1865). *Four hours credit.*
Coming of the white man, struggle for control of the continent, revolution and independence, establishment of the Republic, disunion and civil war. Recommended for the freshman year.
21. UNITED STATES HISTORY (1865 to present). *Four hours credit.*
Reconstruction of the Union; political, social, and economic growth of the Nation; the United States as a world power. Recommended for the freshman year.
40. COLORADO HISTORY. *Four hours credit.*
Indian civilization, mining, cattle, and agricultural frontiers; and industrial development from the days of the cliff dwellers to the present.
158. SOCIAL AND INDUSTRIAL HISTORY OF THE UNITED STATES. *Four hours credit.*
The development of American industrial life from the colonial period to the present time, including its effect upon the standard of living.
252. HISTORY OF THE WEST. *Four hours credit.*
Westward movement in the United States from 1636 to 1890; the different frontiers and their relation to the Federal Government Development of the West.
265. CONTEMPORARY UNITED STATES HISTORY. *Four hours credit.*
Social, political, and industrial developments since 1914; the war periods, the New Deal and after; the relation of the United States to world problems.
270. CULTURAL HISTORY OF THE UNITED STATES. *Four hours credit.*
Cultural development of the United States and the social and economic forces which conditioned it.

DESCRIPTION OF COURSES—SOCIAL STUDIES

363. AMERICAN REVOLUTION. *Four hours credit.*
The causes of the Revolution; the techniques applied to establish a democratic government in the United States.
364. CIVIL WAR AND RECONSTRUCTION. *Four hours credit.*
Civil War and problems of reconstruction.
365. AGRICULTURAL HISTORY OF THE UNITED STATES. *Four hours credit.*
The rise of agriculture as a major industry. Current agricultural problems

LATIN AMERICAN HISTORY

100. LATIN AMERICAN LIFE. *Four hours credit.*
Designed to aid the elementary school teacher. The great heroes, Latin American way of life, essential economy and geographic factors.
266. COLONIAL LATIN AMERICA. *Four hours credit.*
The work of Spain in the New World with particular emphasis on the fusion of cultures and institutions.
267. MODERN LATIN AMERICA. *Four hours credit.*
The political structure of the new national states; their economic and social problems.
368. SOCIAL HISTORY OF LATIN AMERICA. *Four hours credit.*
The educational systems, the role played by the church, the types of society developed, and the resultant cultural life.

WORLD HISTORY

30. WORLD HISTORY. *Four hours credit.*
Development of the social, political, industrial, and cultural institutions of the major world powers from 1492 to 1815.
31. WORLD HISTORY. *Four hours credit.*
The same, 1815 - 1914.
32. WORLD HISTORY. *Four hours credit.*
The same, 1914 to the present.
251. ANCIENT SOCIAL HISTORY. *Four hours credit.*
The social life and institutions of the Ancient Near East, Greece and Rome; detailed study of the religions, cultural development, living conditions, and recent archeological discoveries.
255. CONTEMPORARY WORLD HISTORY (Summer Session only).
Four hours credit.
National and world events commanding the attention of the world today.

DESCRIPTION OF COURSES—SOCIAL STUDIES

261. MEDIEVAL LIFE AND INSTITUTIONS. *Four 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.
268. THE BALKANS AND THE NEAR EAST. *Four hours credit.*
Recent developments in the Near East, with the historical background.
269. THE FAR EAST. *Four hours credit.*
The economic, social, educational, ethical, religious, and political life of major countries in the Far East.
359. RENAISSANCE AND REFORMATION. *Four hours credit.*
The civilizations produced by the Renaissance and its effect on the religious life of the time as a background for the Reformation; the origins of controversial questions still prevalent among the modern churches.
360. FRENCH REVOLUTION. *Four hours credit.*
Social, economic, and political conditions in France leading up to the Revolution; the effects of the Revolution upon Western Civilization.
362. COLONIAL EMPIRES OF THE TWENTIETH CENTURY. *Four hours credit.*
The rise of the great colonial empires of our day; their problems of imperial administration, race and economic equality, and changes resulting from the recent war.

POLITICAL SCIENCE

170. FUNDAMENTALS OF UNITED STATES GOVERNMENT. *Four 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.*
The organization of state, county, township and municipal governments, and the administration of public services at each level.
172. PROBLEMS IN UNITED STATES GOVERNMENT. *Four hours credit.*
The constitutional and extra-constitutional factors influencing the legislative process, the conduct of administration, national defense and the control of foreign relations, and the regulation of commerce, business, labor and agriculture.
273. FOREIGN POLICY OF THE UNITED STATES. *Four hours credit.*
Principal events in our foreign relations, 1776 to date, and the development of policies relating thereto.

DESCRIPTION OF COURSES—SOCIAL STUDIES

274. INTERNATIONAL ORGANIZATION. *Four hours credit.*
The bases of international relations, progress in international law and legislation, and modern attempts to establish formal machinery for handling international problems.
276. CONTEMPORARY EUROPEAN GOVERNMENTS. *Four hours credit.*
The background, structure and functioning of present-day European governments; major attention to Great Britain, France, Russia, and Italy, with some reference to Switzerland, the Low Countries, and the Scandinavian nations.
279. POLITICAL PARTIES AND ELECTORAL PROBLEMS. *Four hours credit.*
The organization and techniques of political parties in the United States, voting behavior of the electorate, and problems relating to the machinery of representative democracy.
377. THE CONSTITUTION AND ITS INTERPRETATION. *Four hours credit.*
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. PRINCIPLES OF PUBLIC ADMINISTRATION. *Four hours credit.*
The bases of good public administration; problems of administrative organization, personnel, line and staff functioning, and government finance.
379. INTERNATIONAL LAW. *Four hours credit.*
Background, varying concepts and progress of the law of nations as exemplified by the writings of eminent jurists; and an examination of the customs, usages, treaties and cases that have contributed to the establishment of modern international law.

SOCIOLOGY

100. CONTEMPORARY SOCIAL PROBLEMS. *Four hours credit.*
Factors restricting the needs for security and activity for certain groups. Sociodramatic interpretations of conflicts between groups over questions of group deviations in both rural and urban areas.
101. PRINCIPLES OF SOCIOLOGY. *Four hours credit.*
Principles of social relations as applied to both rural and urban societies, group relationships, social organization, and the influence of group participation on personality development. The anthropological approach.

DESCRIPTION OF COURSES—SOCIAL STUDIES

104. MARRIAGE AND THE FAMILY. *Four hours credit.*
Modern American family, marriage and personality, choice of mates, prediction of marital happiness, the changing family, family disorganization, the happy family.
201. INTERGROUP RELATIONS. (Same as Ed. 249b). *Two hours credit.*
A specialized study of ethnic and racial relations and problems of adjustment in both rural and urban areas.
202. SOCIAL PSYCHOLOGY. (Same as Ed. 291). *Four hours credit.*
Prerequisite, Ed. 25 or its equivalent. Specialized study of the behavior of persons in groups.
203. WORLD'S GREAT RELIGIONS. *Four hours credit.*
A comparative study of the great religions of the world.
204. CONTEMPORARY WORLD PROBLEMS. *Four hours credit.*
Great world issues analyzed sociologically, and interpreted by means of the sociodrama.
205. SOCIODRAMA AND SOCIOMETRY. *One to four hours credit.*
Simulation of group situations in a controlled situation; use of sociodrama in learning; operational study of interpersonal relations. Measurement of group morale, leadership, control of small groups.
206. CRIME AND DELINQUENCY. *Four hours credit.*
Causes, treatment and prevention of delinquency and crime.
301. CONTEMPORARY FAMILY PROBLEMS. *Four hours credit.*
An advanced course in family relationships; scientific selection of mates, predicting success in marriage, analysis of family relationships and their effects on personality; the family in transition. Seminar.
303. SOCIAL RECONSTRUCTION. *Four hours credit.*
Analysis of plans for re-establishing a state of equilibrium in the social organization. A seminar course.
305. WORLD POPULATION PROBLEMS. *Four hours credit.*
World population trends and their social consequences.

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 president, 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 superintendent of public instruction 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 approximately 18,000 population. Greeley is in northern Colorado and is 52 miles north of Denver and 50 miles south of Cheyenne, Wyoming. Estes Park is 50 miles west. The nearby mountains provide much recreation for the students. Fishing, hunting, skiing, and picnicking are popular diversions.

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-one buildings. All of these except the three men's residence halls are on the main campus. The men's residence halls are two blocks east of the main campus and are near Jackson Field, the stadium.

Public Services

Coordinated through the Department of Public Relations, the College provides several types of services for students, schools, and communities. The services include extension classes and correspondence study, placement of graduates in teaching positions, scheduling staff members and students for speaking engagements, and helping schools and communities with their education problems.

Extension Classes

Classes are organized in communities where a group of people wish to study the same course. Minimum number of students for which a class will be conducted depends upon the distance the teacher travels to the meeting.

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-eight quarter hours is the total of extension 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.

Placement Bureau

The Placement Bureau 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 in the Placement Bureau.

School boards and superintendents seeking teachers are also assisted by the Placement Bureau. Superintendents and school board members are invited to visit the College, and utilize the services of the Bureau. Private offices are provided for the visitors.

Library Facilities

The College Library has over 125,000 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.

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, student health services, counseling of a personal nature as well as academic guidance, living accommodations, recreational events, student employment, and student loans and scholarships.

Student Residence Halls

The College provides ten attractive and well-equipped residence halls for men and women students. 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 Hall 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 the same as when college is open, except on Friday night. Friday will be a 10:30 night, Saturday a one o'clock night. The night on which college closes for vacation will be a one o'clock night only if there is an organized party sponsored by the Associated Students.

Quiet hours in all residence halls and college-approved houses are: Monday through Friday, 8:00 a.m. to noon, and 1:00 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 are expected to provide their own personal linens and towels and may furnish bedding. The College is, however, equipped to furnish and launder all bedding at a charge of \$5.00 each quarter except in the Summer Session.

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 Director of Student Personnel is notified at least twenty days prior to the quarter for which the room has been reserved. All deposits will be applied on the regular rental charge for the room. Checks or money orders should be made payable to the college.

Except for Greeley residents all first-year students are expected 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.

Emergency Housing Project

A limited number of trailer, quonset, and pre-fabricated apartment units are available for veterans 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.

Student Employment

A large number of the students of the College have part-time employment to help defray their expenses. Many work projects are established on the campus and are staffed by student help. Rates of hourly pay vary with the skill of the worker and the kind of work done. Other types of 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 a College work project must maintain a satisfactory grade average. A cumulative and quarterly average of "C" (3.0) is generally considered as satisfactory for this purpose.

Inquiries concerning employment should be addressed to the Student Employment Office, Department of Student Personnel.

Social Standards

The College does not have established rules of conduct. A student is expected to be a good citizen of his college community. When a student lacks the essential qualities of scholarship, health, and character, his relationship with the College automatically ends.

Health Services

The Student Health Offices offer 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 \$2.50 of the quarterly fees paid by each student provides adequate off-campus health services. Students are given a card 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 nurse in charge of the 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.

All campus organizations must apply each year to the Student Council for charter approval. When organizations are recognized both by the Student Council and the Administration 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.

Little Theater of the Rockies

The Little Theater 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 athletics.

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.

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. 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

All of the divisions in the College sponsor honorary fraternities and clubs of various types which are of interest to students majoring or minoring in the division. The organizations provide an opportunity for students and faculty members to become better acquainted.

Scholarships, Awards, 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

Three scholarships of \$500 each are awarded annually to Chinese students through a fund made available by the Jack Petteys Memorial Foundation. 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.

The scholarships are awarded to Chinese men and women, preferably to those born in China, for either graduate or undergraduate study. However, in awarding these scholarships, preference is given to those students working at the graduate level for the Master of Arts degree. Two essential conditions of the awards are a knowledge of both the Chinese and English languages, and the intention to return to China, after the period of study, to engage as active citizens in some phase of Chinese life.

Undergraduate students may apply for renewals for such a period of time as shall be necessary to complete the Bachelor of Arts degree. Graduate students may apply for renewals for such a time as shall be necessary to complete their graduate program.

Letters of application shall include, in addition to high school and college transcripts, the applicant's birthplace, age, sex, health certificate, photograph, present occupation, intended occupation, and probable location of residence in China, and names of references or letters of recommendation. These should be addressed to the Scholarship Fund for Chinese Students in care of the College.

"Around the World with Dobby" Scholarship

The "Around the World with Dobby" scholarship, awarded annually, 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".

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 Committee on Scholarships 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.

Loan Funds

Twelve College loan funds with aggregate resources of over \$32,000 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 four 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 Club, Altrusa, Shyn, Sigma Upsilon Graduate, Panhellenic, and Laboratory School funds.

Expenses

TUITION AND FEES BY THE QUARTER

Fall, Winter, and Spring Quarters*

Required of Every Student

Tuition	
Residents of Colorado - - - - -	\$27.50
Out-of-state Students** - - - - -	32.50
Registration - - - - -	3.50
College Service (including Health Fee) - - - - -	9.25
Associated Students (average) - - - - -	8.00

Other Fees

Late Registration (charged for each separate failure to comply with regulations) - - - - -	1.00
Special Examination (required when permission is given to take an examination at a time other than that scheduled) - - - - -	2.00
Late Application for Degree - - - - -	2.00
Change of Program (each change after grace period) - -	1.00

Extension of Credit

Tuition and Incidental Fees - - - - -	1.00
Board and Room (by installments) - - - - -	1.50

Credit by Examination

Test - - - - -	2.00
Credit, per quarter hour - - - - -	3.00

* For Summer Session expenses, refer to Summer Session Bulletin.

** Consult Business Office for rulings on residence requirements as defined by the Board of Trustees.

EXPENSES

TUITION AND FEES BY THE QUARTER

Fall, Winter, and Spring Quarters*

Graduate Fees†

Doctoral Field Study Publication Fee	- - - -	\$27.00
Binding, Master's Thesis or Doctoral Field Study (Four copies required, fee, per copy, \$2.00)	- -	8.00

College Residence Hall Fees††

Board and Room, Men's Residence Halls, range	152.00-156.00
Board and Room, Women's Residence Halls, range	140.00-148.00
Linen Service	- - - - - 5.00

Refunds

Partial refunds of tuition, fees, or other payments are made on withdrawal only in accordance with established rulings of the Board of Trustees.

Music Fees

Individual music lessons (music majors)	- - - - -	12.50
Individual music lessons (other college students)	- -	15.00
Individual music lessons (students not enrolled in the college or affiliated schools)	- - - - -	20.00
Individual music lessons (less than full quarter)		
Voice, piano, organ, strings, each	- - - - -	2.50
Other instruments, each	- - - - -	2.00
Practice Room (including piano rental)	- - -	5.00
Orchestra or band instrument rental	- - - - -	5.00
Organ rental	- - - - -	10.00

* For Summer Session expenses, refer to Summer Session Bulletin.

† Tuition rates applying in the annual Summer Session Bulletin will be charged candidates enrolled under the previous Plan A for the master's thesis or for the doctoral field studies. Charges will be based on the number of credit hours for which the thesis or field study work is assigned.

†† Deposit of \$15.00 is required for a residence hall room reservation. If a student decides not to take a room after he has reserved it, \$5.00 will be refunded if the Director of Student Personnel is notified at least twenty days prior to the opening of the quarter for which the room has been reserved. Residence hall fees vary directly with the cost of living and are subject to change on thirty days' notice prior to any quarter by action of the Board of Trustees.

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Adams State College - - - - - Alamosa
IRA RICHARDSON, *President*

Colorado Agricultural and Mechanical College - - Fort Collins
I. E. NEWSOM, *President*

Colorado School of Mines - - - - - Golden
BEN PARKER, *President*

Colorado State College of Education - - - - - Greeley
WILLIAM ROBERT ROSS, *President*

University of Colorado - - - - - Boulder
ROBERT L. STEARNS, *President*

Western State College - - - - - Gunnison
PETER MICKELSON, *President*

Colorado State College of Education Bulletin

Schedule of Classes

Fall, Winter, and Spring
Quarters

1948-1949

GREELEY, COLORADO

NOTICE

This schedule should be preserved and used for the three quarters of 1948-1949.

Instructions regarding registration procedures will be issued each quarter and should be read carefully by each student.

The normal course load for a quarter is 16 quarter hours of academic credit. This does not include the physical activity courses required in the freshman and sophomore years. A maximum of 20 hours may be taken by undergraduate 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.

No credit will be granted for auditing courses.

Courses numbered 1 to 99 are for freshmen and sophomores; 100 to 199 for Juniors and seniors; 200 to 299 for qualified upper classmen and graduate students; 300 to 399 are restricted to graduate students.

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.

Proficiency examinations in certain required courses may be taken to determine whether or not the student may be excused from these courses.

Those courses marked with an asterisk (*) are ticketed classes and it is necessary for all students taking these courses to secure a ticket at the time of registration.

All courses marked with a dagger (†) are courses in which the students may receive credit in a division other than the one indicated on the course number. After the course description the name of the division in which credit may be received will appear in parentheses.

Graduate students may obtain from their Faculty Advisers a list of the courses in which designated papers may be written.

Schedule of Classes

FALL QUARTER, 1948

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room	
8:10 a.m.							
The Arts	*F.A. 11	Introduction to Design	MTWTh	4	Ball	Gugg. 200	
	F.A. 123	Art in the Secondary School	MTThF	4	Wolfe	Gugg. 202	
	*F.A. 124	Art in the Elementary School	MTThF	4	Leacock	Gugg. 204	
	H.E. 279	Preservation of Food (Lab. 8-10 W)	MF	2	Newburn	Crabbe 202	
	*I.A. 50abc	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 153a	Woodturning (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 242abc	Advanced Theory and Practice of Typographic Design (Lab. arr.)	MTWTh	4	Bishop	Kepner 4	
	*I.A. 343	Teaching Techniques and Course Organization in Printing and the Graphic Arts (Lab. arr.)	MTWTh	4	Bishop	Kepner 4	
	Education	*25	General Psychology	MTWTh	4	Patterson	Gunter 201
		*85	Community Life and Problems	MTWTh	4	Ninemires	Carter 307
150h		Methods of Teaching Physical Education in Secondary Schools (Men)	MTThF	4	Doubenmier	Men's Gym	
215a		Principles of Counseling	MTWTh	4	A. Christensen	Cranford 205	
*216		Secondary Education	MTWTh	4	S. Gates	Cranford 203	
280		Organizing a School Library	MTThF	4	Library Staff	Carter 201	
B.Ed. 2		Advanced Typewriting	TWThF	2	Dempsey	Cranford 213	
*B.Ed. 13		Office Practice (Double Period)	MTThF	4	Farrar	Cranford 214	
*B.Ed. 20		Introductory Accounting	TWThF	4		Cranford 208	
B.Ed. 71		Principles of Retailing	TWThF	4	O. Hansen	Cranford 202	
Health		*8	Social Dancing	MWF	1		Gunter 202
		*61	Personal Hygiene	MTWTh	4	Bottinelli	Gunter 203
		*90	Techniques in Folk Dances of Various Countries	MTThF	2	Dougherty	Gunter 107
	*202	School Health Education	MTWTh	4	Hughes	Gunter 103	
Humanities	*1	First Course in the Humanities	MTWTh	4	Cross	Carter 401	
	*1	First Course in the Humanities	MTWTh	4	Gibert	Carter 303	
	*Eng. 4a	Elementary English Composition	MTThF	4	Hutchins	Carter 304	
	*Speech 5	Reading and Speaking English	MTThF	4	J. Smith	Crabbe 302	
	Music	99a	Beginning Brass Instruments	MTWTh	2	King	Music 11
99a		Beginning Woodwind Instruments	MTWTh	2		Music 6	
99a		Beginning String Instruments	MTWTh	2	B. Ginsburg	Music 14	
Sciences	*3b	Introduction to Biological Science	MTThF	4	Harrah	Cranford 303	
	191	Science in the Elementary School (Educational Films and Observation, 1 hr. to be arr.)	MTThF	4	Neal	Kepner 13	
	*Bot. 21	General Botany (3 hrs. Lab. M 2-5, W 1-4)	MWF	4	Hershey	Cranford 301	
	Math. 78a	College Mathematics	MTThF	4	Fisch	Cranford 207	
	Math. 175	Differential Calculus	MTWTh	4	Mallory	Cranford 210	
	Phys. 167	Elementary Photography (3 hrs. Lab. TTh 3-5, F 8-11)	MTW	4	Herman	Crabbe 106	
	Social Studies	*81	Social Relations	MTThF	4	Zeleny	Crabbe 304
Geog. 246		Geographical Influences in American History	MTThF	4	West	Crabbe 309	
*Hist. 20		United States History (to 1865)	MTWTh	4	Welling	Crabbe 301	
Pol. Sci. 170		Fundamentals of United States Government	MTThF	4	H. Christensen	Crabbe 305	
9:10 a.m.							
The Arts	*F.A. 1	Drawing	MTWTh	4	Mariani	Gugg. 200	
	F.A. 202	Advanced Composition	MTWTh	4	Ellinger	Gugg. 202	
	H.E. 191a	Home Management Theory	MTThF	4	Wiebking	Crabbe 206	
	H.E. 191b	Home Management Residence	Arr.	2	Foss	Cottage	
	H.E. 282	Nutrition in Disease	MTThF	4	Newburn	Crabbe 202	
	*I.A. 41abc	Elements of Printing (Lab. arr.)	MTThF	2-4	Bishop	Kepner 4	
	*I.A. 55wx	Metalwork (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg. 1	
	*I.A. 141abc	Intermediate Printing Problems (Lab. arr.)	MTThF	2-4	Bishop	Kepner 4	
	I.A. 240a	Course Organization in Industrial Arts	MTThF	4	Adams	Gugg. 105	

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Education	*25	General Psychology	MTWTh	4	Patterson	Gunter 205
	*77	Psychology of Childhood and Youth	MTWTh	4	Taylor	Gunter 307
	150a	Observation and Applied Techniques of Teaching in the Elementary School	Daily	4	Davis	Kepner 118
	150b	Methods of Teaching in the Secondary School (Industrial Arts)	MTWTh	4	Baab	Gugg. 102
	150d	Observation and Participation in the Elementary School (Music) (Observation arr.)	TTh	3	Hoydar	Kepner 115
	277b	Psychology of Adolescence	MTWTh	4	A. Christensen	Cranford 203
	B.Ed. 3	Personal Typewriting (Oct. 9-30)	Sat. 9-12	0	K. Hansen	Cranford 213
	*B.Ed. 10	Beginning Gregg Shorthand	MTWTh	4	K. Hansen	Cranford 208
	*B.Ed. 60	Calculating Machines	TWThF	2	O. Hansen	Cranford 211
	B.Ed. 255	Business Organization and Management	TWThF	4	Waterman	Cranford 210
Health	*6a	Beginning Modern Dancing	TThF	1	Dougherty	Gunter 202
	*6a	Beginning Modern Dancing	MWF	1	Dougherty	Gunter 202
	*61	Personal Hygiene	MTWTh	4	Bottinelli	Gunter 203
	*71	Theory and Practice of Minor Sports (Men)	MTThF	2	Butler	Men's Gym
	840	Curriculum in Physical Education	MTThF	4	Cave	Gunter 103
Humanities	*1	First Course in the Humanities	MTWTh	4	Cross	Carter 401
	*1	First Course in the Humanities	MTWTh	4	Lindou	Carter 303
	*Eng. 4a	Elementary English Composition	MTThF	4	Drummond	Carter 304
	Eng. 44	Intermediate Composition	MTThF	4	Hawes	Cranford 201
	Eng. 126	Literature and Materials in Secondary Schools	MTThF	4	Carney	Kepner 210
	French 205	Survey of French Literature	MTThF	4	Gibert	Carter 501
	Span. 5	Intermediate Spanish	MTThF	4	Candelaria	Carter 302
	*Speech 16	Voice and Diction	MTThF	4	Edmundson	Carter 201
	Speech 218	Discussion Techniques	MTThF	4	Toussaint	Cranford 202
	Music	52a	Harmony	MTWTh	3	Goodbrod
152a		Counterpoint	MW	2	Ginsburg	Music 14
256		Psychology of Music	MTWTh	4	Chadwick	Music 2
Sciences	*8b	Introduction to Biological Science	MTThF	4	Decker	Kepner 5
	Biol. 231	Evolution	MTWTh	4	Selberg	Cranford 301
	*Chem. 41b	Introduction to Chemistry (3 hrs. Lab. T 1-4, W 8-11)	MTTh	4	Glidden	Crabbe 101
	Math. 275a	Advanced Calculus	MTWTh	4	Mallory	Cranford 207
	Phys. 61	General Physics (3 hrs. Lab. TTh 3-5, F 8-11)	MTW	4	Herman	Crabbe 106
	*Zool. 11	General Zoology (3 hrs. Lab. W 1-5, F 8-12, F 1-4)	MWTh	4	Harrah	Cranford 303
	Social Studies	*81	Social Relations	MTThF	4	Welling
Econ. 100		Principles of Economics	MTWTh	4	Quammen	Crabbe 305
*Hist. 30		World History	MTThF	4	Gartside	Crabbe 304
Hist. 862		Colonial Empires of the 20th Century	MTWTh	4	Zimmerman	Cranford 205
10:10 a.m.						
The Arts	*F.A. 3	Drawing for Elementary School Teachers	MTWTh	4	Ball	Gugg. 200
	F.A. 129	Fashion Drawing	MTWTh	4	Mariani	Gugg. 202
	*F.A. 216g	Advanced Weaving	MTThF	4	Leacock	Gugg. 204
	H.E. 70	Clothes and Personality	MTThF	4	Wiebking	Crabbe 206
	I.A. 84	Introduction to Industrial Arts	MW	2	Baab	Gugg. 105
	*I.A. 61a	Principles of Drafting (Lab. arr.)	TTh	2	Baab	Gugg. 100
	*I.A. 155	Intermediate Art Metal Problems (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg. 1
Education	*25	General Psychology	MTWTh	4	Luker	Crabbe 301
	58	Teaching Reading in the Elementary School	MTWTh	4	Davis	Kepner 118
	*77	Psychology of Childhood and Youth	MTWTh	4	Taylor	Gunter 201
	*85	Community Life and Problems	MTWTh	4	Smart	Carter 307
	298	Current Educational Trends and Issues	MTThF	4	Rugg	Carter 302
	*B.Ed. 22	Principles of Accounting II	TWThF	4	Waterman	Cranford 208
	*B.Ed. 41	Introduction to Business	MTWTh	4		Cranford 202
	*B.Ed. 131	Business Law	MTWTh	4	O. Hansen	Gunter 203

*Ticketed classes. Please refer to information under "Notice" on Page Two.
†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Health	1	Orientation in Physical Education Activities (Men)	MTTh	1		Men's Gym
	*23	Tennis (Women)	MWF	1		Courts
	82	Techniques of Hockey and Soccer (Women)	MTThF	2	Rugh	Gunter 114
	120a	Anatomy and Physiology	MTThF	4	Cave	Gunter 103
	*272	Recreation Leadership	MTWTh	4	Small	Gunter 107
Humanities	*1	First Course in the Humanities	MTWTh	4	Drummond	Carter 401
	*1	First Course in the Humanities	MTWTh	4	Lindou	Carter 303
	*Eng. 4a	Elementary English Composition	MTThF	4	Hutchins	Carter 304
	*Eng. 58a	Survey of English Literature	MTThF	4	Hawes	Cranford 201
	Span. 1	Elementary Spanish	MTThF	4	Candelaria	Carter 501
	*Speech 5	Reading and Speaking English	MTThF	4	J. Smith	Cranford 301
	Speech 125	Teaching Speech and Drama in Secondary Schools	MTThF	4	Langworthy	Cranford 210
Music	50a	Introduction to Music Education	MWF	2	Mohr	Kepner 219
	58a	History of Music	TTh	2	Cline	Music 6
	148a	Music Fundamentals for Elementary Teachers	MTWTh	4	Hoydar	Kepner 115
Sciences	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford 303
	*Chem. 40a	Principles of Chemistry (3 hrs. Lab. M 1-4, W 8-11)	MTTh	4	Dunn	Crabbe 101
	Math. 177a	Analytic Geometry I	MTThF	4	Fisch	Cranford 207
	Phys. 63	General Physics (3 hrs. Lab. TTh 3-5, F 8-11)	MTW	4	Herman	Crabbe 106
Social Studies	*81	Social Relations	MTThF	4	H. Christensen	Crabbe 304
	Econ. 200	Labor-Management Relations	MTThF	4	Turner	Crabbe 302
	Geog. 10	World Geography	MTWTh	4	West	Crabbe 305
	Hist. 266	Colonial Latin America	MTWTh	4	Zimmerman	Cranford 205
11:10 a.m.						
The Arts	F.A. 13	Lettering	MT	2	Wolfe	Gugg. 200
	F.A. 118	Puppetry	ThF	2	Wolfe	Gugg. 200
	F.A. 221a	Art History I	MTThF	4	Ellinger	Gugg. 105
	H.E. 73	Dress Design and Construction (4 hrs. Lab. MThF 3-5)	MTTh	4	Wiebking	Crabbe 206
	*I.A. 41abc	Elements of Printing (Lab. arr.)	MTThF	2-4	Bishop	Kepner 4
	*I.A. 46ab	Bookbinding (Lab. arr.)	MTThF	2-4	Bubbers	Carter 203
	*I.A. 141abc	Intermediate Printing Problems (Lab. arr.)	MTThF	2-4	Bishop	Kepner 4
Education	*25	General Psychology	MTThF	4	Luker	Crabbe 301
	54	Teaching Arithmetic in the Elementary School	MTThF	4	Rosenquist	Kepner 118
	*105	American Education	MTThF	4	Rugg	Carter 307
	150b	Methods of Teaching in the Secondary Schools (Bus. Ed.) (2 hrs. Observation)	MTF	4	Waterman	Cranford 213
	150b	Methods of Teaching in the Secondary Schools (English)	MTThF	4	Meyer	Kepner 221
	275a	Applied General Statistics (First Course)	MTThF	4	Patterson	Gunter 201
	†291	Social Psychology (May receive Social Studies Credit)	MTThF	4	Zeleny	Crabbe 305
	B.Ed. 12	Shorthand Transcription	MTThF	4	Farrar	Cranford 214
	*B.Ed. 37	Business Mathematics	MTThF	4	O. Hansen	Cranford 208
	B.Ed. 258	Advertising	MTThF	4	Hartman	Cranford 207
Health	161	Coaching of Football	TTh	2	Hancock	Gunter 103
	812	Tests and Measurements	MTThF	4	Butler	Gunter 205
Humanities	*Eng. 4a	Elementary English Composition	MTThF	4	Orth	Carter 304
	Eng. 289a	Literature of the Old Testament	MTThF	4	Wilson	Cranford 205
	French 1	Elementary French	MTThF	4	Gibert	Carter 501
	Ger. 1	Elementary German	MTThF	4	Zahnen	Kepner 204
	*Speech 62	Extempore Speaking	MTThF	4	Edmundson	Carter 201
	*Speech 117	Oral Interpretation	MTThF	4	Langworthy	Little Theater
Music	153a	Instrumentation	MF	2	Cline	Music 14
	155a	Technique and Practice of Conducting	TTh	2	Cline	Music 14

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room	
Sciences	*3a	Introduction to Physical Science	MTThF	4	Glidden	Cranford 303	
	Biol. 232	Genetics and Eugenics	MTThF	4	Hershey	Cranford 302	
	Chem. 144	Qualitative Analysis (6 hrs. Lab. TTh 1-4)	MTTh	5	Dunn	Crabbe 101	
	†*Geol. 186	General Geology (Field Trips arr.) (May receive Social Studies credit)	MTThF	4	West	Gunter 203	
	Math. 75a	College Algebra	MTThF	4	Mallory	Cranford 210	
Social Studies	*81	Social Relations	MTThF	4	Quammen	Crabbe 304	
1:10 p.m.							
The Arts	F.A. 103a	Introduction to Watercolor Painting	MTWTh	4	Mariani	Gugg. 200	
	*F.A. 116	Crafts Processes and Design	MTThF	4	Ball	Gugg. 204	
	F.A. 203	Watercolor Painting	MTWTh	4	Mariani	Gugg. 200	
	H.E. 74	Elementary Nutrition	MTThF	4	Newburn	Crabbe 202	
	*I.A. 61ab	Principles of Drafting (Lab. arr.)	MTThF	2-4		Gugg. 100	
	*I.A. 150d	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 256	Advanced Art Metal (Lab. arr.)	MTWTh	4	Woodruff	Gugg. 1	
Education	*25	General Psychology	MTWTh	4	A. Christensen	Gunter 205	
	*85	Community Life and Problems	MTWTh	4	Rugg	Carter 307	
	*105	American Education	MTWTh	4	Taylor	Gunter 201	
	208a	Audio-Visual Aids in Education	MTWTh	4	Kilbourn	Cranford 201	
	210	Improvement of Instruction in Reading in the Elementary School	MTWTh	4	McKee	Cranford 207	
	*B.Ed. 41	Introduction to Business	MTWTh	4		Cranford 202	
	B.Ed. 123	Corporation Accounting	MTWTh	4	Waterman	Cranford 208	
Health	*7	Folk Dancing	MTTh	1	Cave	Gunter 202	
	*23	Tennis (Women)	MTTh	1		Courts	
	*61	Personal Hygiene	MTWTh	4	Hughes	Gunter 203	
	*70	Theory and Practice of Gymnastics and Matwork (Men)	MTWTh	2	Sorensen	Men's Gym	
	129a	Teaching of Sports for Women	MTWTh	2	Rugh	Gunter 107	
Humanities	*1	First Course in the Humanities	MTWTh	4	Cross	Carter 401	
	*1	First Course in the Humanities	MTWTh	4	Drummond	Carter 303	
	*Eng. 4a	Elementary English Composition	MTWTh	4	Hutchins	Carter 304	
	Eng. 58c	Survey of American Literature	MTWTh	4	Lindou	Carter 302	
	Eng. 232	The Development of the Novel	MTWTh	4	Hawes	Cranford 205	
	Span. 105	Survey of Spanish Literature	MTWTh	4	Candelaria	Carter 501	
	*Speech 5	Reading and Speaking English	MTWTh	4	Edmundson	Carter 201	
	*Speech 63	First Course in Drama	MTWTh	4	Langworthy-Wolfe	Little Theater	
	Sciences	*3a	Introduction to Physical Science	MTThF	4	Glidden	Cranford 303
		*3b	Introduction to Biological Science	MTThF	4	Hershey	Cranford 203
*Chem. 40c		Introductory Organic Chemistry (8 hrs. Lab. W 8-11)	MWF	4	Dunn	Crabbe 101	
Math. 76		Plane Trigonometry	MTWTh	4	Fisch	Cranford 210	
Phys. 264a		Mechanics and Heat	MTWTh	4	Herman	Crabbe 106	
Social Studies	*81	Social Relations	MTWTh	4	H. Christensen	Crabbe 304	
	Econ. 106	Money and Banking	MTThF	4	Quammen	Crabbe 309	
	*Hist. 20	United States History (to 1865)	MTWTh	4	Welling	Crabbe 301	
2:10 p.m.							
The Arts	F.A. 12	Lettering for Elementary School Teachers	MT	2	Ball	Gugg. 204	
	F.A. 14	Textile Design	ThF	2	Ball	Gugg. 204	
	F.A. 105	Color Theory (Beginning Course)	MTWTh	4	Ellinger	Gugg. 200	
	H.E. 77	Cookery and Table Service (Lab. TTh 2-4)	MWF	4	Newburn	Crabbe 202	
	H.E. 188	Costume Design (4 hrs. Lab. arr. MThF 3-5)	MTTh	4	Wiebking	Crabbe 206	
	*I.A. 46ab	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter 203	
	*I.A. 50abc	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 55wx	Metalwork (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg. 1	
	*I.A. 146c	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter 203	
	*I.A. 158a	Woodturning (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 161cd	Principles of Drafting (Lab. arr.)	MTWTh	2-4	Baab	Gugg. 100	
	*I.A. 362ab	Problems in Drafting and Planning	MTWTh	4	Baab	Gugg. 100	

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Room	Instructor	
Education	*25	General Psychology	MTWTh	4	A. Christensen	Gunter	203
	*77	Psychology of Childhood and Youth	MTWTh	4	Taylor	Gunter	201
	150b	Methods of Teaching in the Secondary Schools (Social Studies)	MTWTh	4	Pogue	Kepner	205
	150g	Methods of Teaching in the Elementary Schools (Physical Education)	MTWTh	4	Dougherty	Gunter	202
	*216	Secondary Education	MTWTh	4	S. Gates	Crabbe	304
	300	Introduction to Graduate Study	MTWTh	4	Patterson	Carter	304
	*B.Ed. 10	Beginning Gregg Shorthand	MTWTh	4	K. Hansen	Cranford	210
	*B.Ed. 20	Introductory Accounting	MTWTh	4		Cranford	208
Health	*12	Soccer (Women)	MTTh	1		Gunter	114
	16	Swimming (Men)	MTTh	1		Pool	
	*70	Theory and Practice of Gymnastics and Matwork (Men)	MTWTh	2	Sorensen	Men's Gym	
	*92	American Square and Social Dancing	MTWTh	2	Small	Gunter	107
	204	Organization and Administration of School Health Programs	MTWTh	4	Hughes	Gunter	103
Humanities	*1	First Course in the Humanities	MTWTh	4	Drummond	Carter	303
	*1	First Course in the Humanities	MTWTh	4	Hutchins	Carter	401
	*Eng. 58a	Survey of English Literature	MTWTh	4	Hawes	Cranford	202
	Eng. 101	News Writing for High School Teachers of Journalism	MTWTh	4	Cornelison	Cranford	205
	Eng. 211	The English Language	MTWTh	4	Lindou	Carter	302
	French 5	Intermediate French	MTWTh	4	Gibert	Carter	501
	Speech 18	Discussion and Debate	MTWTh	4	Edmundson	Carter	201
Speech 65	First Course in Scene Design	MTWTh	4	Wolf	Little Theater		
Music	2a	Sight Singing, Ear Training and Notation	Daily	3	Mohr	Kepner	219
	270a	Advanced Harmony and Form Analysis (For B.Mus. degree)	MTWTh	4	Hutcherson	Music	6
Sciences	*3a	Introduction to Physical Science	MTThF	4	Glidden	Cranford	303
	*3a	Introduction to Physical Science	MTWTh	4	Selberg	Cranford	203
	Math. 272	Principles of Teaching Secondary Mathematics	MTWTh	4	Mallory	Cranford	207
	Zool. 218	Animal Histology and Microscopic Techniques (Double Period 2-4)	MTWTh	4	Harrah	Cranford	300
Social Studies	*81	Social Relations	MTWTh	4	Welling	Crabbe	301
	205	Sociodrama and Sociometry	MTThF	4	Zeleny	Crabbe	309
	Geog. 147	Latin America	MTWTh	4	West	Crabbe	305
3:10 p.m.							
The Arts	*F.A. 8	Modeling and Carving	MTWTh	2-4	Mariani	Gugg.	106
	*F.A. 17	Pottery	MTWTh	2-4	Mariani	Gugg.	106
	F.A. 103b	Introduction to Oil Painting	MTWTh	4	Ellinger	Gugg.	202
Education	150b	Methods of Teaching in the Secondary Schools (Home Arts)	TTh	2	Foss	Crabbe	305
	241a	Administration of Village and Consolidated Schools	MTWTh	4	Sanderson	Cranford	205
	†261a	Pre-School and Kindergarten Education (3 hrs. Observation) (May receive Home Economics Credit.)	MTWTh	4	Noell	Kepner	217
	295	Philosophy of Education (Seniors and Graduates only)	MTWTh	4	Armentrout	Cranford	203
Health	1	Orientation in Physical Education Activities (Men)	MTTh	1	Doubenmier	Men's Gym	
	*14	Plays and Games	MTTh	1	Cave	Gunter	202
	*16a	Beginning Swimming (Women)	MW	1	Rugh	Pool	
	*16a	Beginning Swimming (Women)	TTh	1	Rugh	Pool	
	*18	Basketball (Men)	MTTh	1	Butler	Men's Gym	
	*45a	Freshman Football (Double Period)	MTWTh	1		Field	
	*45b	Varsity Football (Double Period)	MTWThF	1	Hancock	Field	
	80	Body Mechanics and Minor Individual Sports (Women)	MTWTh	2	Small	Gunter	107
Music	44	A Cappella Choir	MTWTh	1	Cline	Music	14
	278	Administration and Supervision of the Music Program	MTWTh	4	Ross-Mohr	Cranford	201
Sciences	*3a	Introduction to Physical Science	MTWTh	4	Fisch	Cranford	303
	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford	202

*Ticketed classes. Please refer to information under "Notice" on Page Two.

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Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Social Studies	*81	Social Relations	MTWTh	4	Quammen	Crabbe 301
	*Hist. 30	World History	MTThF	4	Gartside	Crabbe 304
	Pol. Sci. 274	International Organization	MTWTh	4	H. Christensen	Crabbe 309
4:10 p.m.						
Education	26a	Camp Fire Girls Leadership (Double Period)	M	2	Lee	Gunter 203
	311a	Special Problems in the Supervision of Language (Double Period)	TTh	4	McKee	Cranford 207
Health	*10	Field Hockey (Women)	MTTh	1		Field
	*16a	Beginning Swimming (Women)	TTh	1	Rugh	Pool
	*19	Minor Individual Sports (Women)	MTTh	1	Cave	Gunter 107
	22c	Gymnastics (Men)	MTTh	1	Sorensen	Men's Gym
Music	48	Concert Band	MTWTh	1	King	Music 14
5:10 p.m.						
Health		Rec. Swimming (Men and Women)	MTWTh	0	Guard	Pool
Musik	42	College Orchestra	MTWTh	1	Ginsburg	Music 14
7:10 p.m.						
Education	268	Organization and Supervision of the Elementary School (Double Period)	MT	4	Hambrick	Carter 201
7:30 p.m.						
Health		Recreational Swimming (Men and Women) (7:30-9 p.m.)	W	0	Guard	Pool

WINTER QUARTER, 1949

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
8:10 a.m.						
The Arts	*F.A. 11	Introduction to Design	MTThF	4	Ball	Gugg. 200
	*F.A. 127	Art Crafts in the Elementary School	MTThF	4	Leacock	Gugg. 204
	H.E. 284	Demonstration Cookery (Lab. W 8-10)	MF	2	Newburn	Crabbe 202
	*I.A. 56wx	Metalwork (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg. 1
	*I.A. 151a	Equipment and Maintenance Problems	MTThF	4	Adams	Gugg. 4
	*I.A. 242abc	Advanced Theory and Practice of Typographic Design (Lab. arr.)	MTWTh	4	Bishop	Kepner 4
	*I.A. 348	Teaching Techniques and Course Organization in Printing and the Graphic Arts (Lab. arr.)	MTWTh	4	Bishop	Kepner 4
	Education	*25	General Psychology	MTWTh	4	A. Christensen
*85		Community Life and Problems	MTWTh	4	Ninemires	Carter 307
*85		Community Life and Problems	MTWTh	4	Taylor	Cranford 201
150h		Methods of Teaching in the Secondary Schools (Physical Education) (Men)	MTWTh	4	Doubenmier	Gunter 103
150h		Methods of Teaching in the Secondary Schools (Physical Education) (Women)	MTWTh	4	Small	Gunter 205
261b		Kindergarten Education	MTWTh	4	Harrison	Kepner 219
272		Principles of Vocational Education	MTWTh	4	Foss	Crabbe 306
281		Library Materials for Schools	MTThF	4	Library Staff	Carter 501
342		School Administration (First Course—Federal, State, and Local)	MTWTh	4	Sanderson	Cranford 202
B.Ed. 2		Advanced Typewriting	TWThF	2	Dempsey	Cranford 213
*B.Ed. 18		Office Practice (Double Period)	MTThF	4	Farrar	Cranford 214
*B.Ed. 21		Principles of Accounting I	TWThF	4	Waterman	Cranford 208
B.Ed. 72	Retail Salesmanship	TWThF	4	O. Hansen	Cranford 205	

*Ticketed classes. Please refer to information under "Notice" on Page Two.
†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Health	*61	Personal Hygiene	MTWTh	4	Bottinelli	Gunter 203
	*73	Theory and Practice of Basketball (Men)	MTThF	2		Men's Gym
	81	Techniques of Volleyball and Basketball	MTThF	2	Rugh	Gunter 107
	205	Evaluation and Selection of Health Education Material	MTWTh	4	Hughes	Gunter 201
Humanities	*2	Second Course in the Humanities	MTWTh	4	Cross	Carter 401
	*2	Second Course in the Humanities	MTWTh	4	Gibert	Carter 303
	*Eng. 4a	Elementary English Composition	MTThF	4	Hutchins	Carter 304
	Eng. 58c	Survey of American Literature	MTThF	4	G. Gates	Carter 302
	*Speech 5	Reading and Speaking English	MTThF	4		Carter 201
Music	99b	Beginning Brass Instruments	MTWTh	2	King	Music 6
	99b	Beginning String Instruments	MTWTh	2	B. Ginsburg	Music 14
	99b	Beginning Woodwind Instruments	MTWTh	2		Music 11
Sciences	*3a	Introduction to Physical Science	MTThF	4	Harrah	Cranford 303
	292	Special Problems in Teaching Elementary Science (Educational Films and Observation to be arr.)	MTThF	4	Neal	Kepner 13
	*Bot. 22	General Botany (3 hrs. Lab. M 2-5, W 1-4)	MWF	4	Hershey	Cranford 301
	Math. 78b	College Mathematics	MTThF	4	Fisch	Cranford 207
	Math. 176	Integral Calculus	MTWTh	4	Mallory	Cranford 210
	Phys. 166	Electronics (3 hrs. Lab. TTh 3-5, F 8-11)	MTW	4	Herman	Crabbe 106
Social Studies	*82	American Life and Institutions	MTThF	4	Zeleny	Crabbe 305
	*Hist. 21	United States History (1865-Present)	MTThF	4	Welling	Crabbe 301
	Hist. 363	American Revolution	MTThF	4	Peake	Crabbe 304
	Pol. Sci. 172	Problems in United States Government	MTWTh	4	H. Christensen	Crabbe 302
9:10 a.m.						
The Arts	*F.A. 108	Clay Modeling (Lab. arr.)	MTWTh	2-4	Mariani	Gugg. 106
	*F.A. 117	Pottery (Lab. arr.)	MTWTh	2-4	Mariani	Gugg. 106
	F.A. 204	Figure and Composition	MTWTh	4	Ellinger	Gugg. 200
	H.E. 285	Experimental Cookery (Lab. Th 8-10 plus 2 hrs. Lab. arr.)	MF	4	Newburn	Crabbe 202
	H.E. 295	Tailoring (3 hrs. Lab. MTF 3-5)	MTTh	4	Wiebking	Crabbe 206
	*I.A. 41abc	Elements of Printing (Lab. arr.)	MTThF	2-4	Bishop	Kepner 4
	*I.A. 46ab	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter 203
	*I.A. 50abc	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4
	*I.A. 141abc	Intermediate Printing Problems (Lab. arr.)	MTThF	2-4	Bishop	Kepner 4
	*I.A. 153a	Woodturning (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4
	*I.A. 161cd	Principles of Drafting (Lab. arr.)	MTThF	2-4	Baab	Gugg. 100
	*I.A. 362ab	Problems in Drafting and Planning (Lab. arr.)	MTThF	4	Baab	Gugg. 100
	Education	*25	General Psychology	MTWTh	4	Patterson
*77		Psychology of Childhood and Youth	MTWTh	4	Taylor	Cranford 203
150b		Methods of Teaching in the Secondary Schools (Home Arts)	MTWTh	4	Foss	Crabbe 306
215h		Applied Techniques of Counseling	MTWTh	4	A. Christensen	Little Theater
*B.Ed. 11		Intermediate Gregg Shorthand	MTWTh	4	K. Hansen	Cranford 208
*B.Ed. 37		Business Mathematics	TWThF	4		Cranford 201
B.Ed. 60		Calculating Machines	TWThF	2	O. Hansen	Cranford 211
B.Ed. 127		Social Security and Payroll Accounting	MW	2	Waterman	Cranford 207
B.Ed. 128	Income Tax Records and Reports	TTh	2	Waterman	Cranford 207	
Health	2	Orientation in Physical Education Activities (Men)	MTTh	1		Men's Gym
	*61	Personal Hygiene	MTWTh	4	Bottinelli	Gunter 203
	*62	First Aid	MW	2	Sorensen	Gunter 205
	*62	First Aid	ThF	2	Sorensen	Gunter 205
	*90	Techniques in Folk Dances of Various Countries	MTThF	2	Dougherty	Gunter 202
	120b	Anatomy and Physiology	ThF	2	Cave	Gunter 103
	162	Coaching of Basketball	MT	2	Butler	Gunter 103
	*202	School Health Education	MTWTh	4	Hughes	Gunter 201

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room		
Humanities	*2	Second Course in the Humanities	MTWTh	4	Cross	Carter	401	
	*2	Second Course in the Humanities	MTWTh	4	Lindou	Carter	303	
	*Eng. 4a	Elementary English Composition	MTThF	4	Hutchins	Carter	304	
	*Eng. 4b	Elementary English Composition	MTThF	4	Drummond	Crabbe	302	
	Eng. 126	Literature and Materials in Secondary Schools	MTThF	4	Carney	Kepner	210	
	Eng. 130	The Eighteenth Century	MTThF	4	G. Gates	Carter	302	
	Eng. 210	Advanced Composition	MTThF	4	Hawes	Cranford	202	
	French 206	Survey of French Literature	MTThF	4	Gibert	Carter	501	
	Span. 6	Intermediate Spanish	MTThF	4	Candelaria	Crabbe	309	
	*Speech 5	Reading and Speaking English	MTThF	4		Cranford	302	
	*Speech 16	Voice and Diction	MTThF	4	Edmundson	Carter	201	
	Speech 164	Introduction to a Remedial Program in Speech	MTThF	4	Toussaint	Cranford	301	
	Music	52b	Harmony	MTWTh	3	Goodbrod	Music	6
		152b	Counterpoint	MW	2	Ginsburg	Music	14
		257	Physics of Musical Instruments	MTWTh	4	Chadwick	Music	2
	Sciences	*3a	Introduction to Physical Science	MTThF	4	Decker	Kepner	5
*Chem. 41c		Introductory Organic Chemistry (3 hrs. Lab. T 1-4, W 8-11)	MTTh	4	Glidden	Crabbe	101	
Chem. 142		Organic Chemistry (3 hrs. Lab. F 1-4)	MTThF	5	Dunn	Crabbe	207	
Math. 275b		Advanced Calculus	MTWTh	4	Mallory	Cranford	210	
Phys. 62		General Physics (3 hrs. Lab. TTh 1-5, F 8-12, F 1-4)	MTW	4	Herman	Crabbe	106	
*Zool. 12		General Zoology (3 hrs. Lab. W 1-5, F 8-12, F 1-4)	MWTh	4	Harrah	Cranford	303	
Social Studies		*82	American Life and Institutions	MTThF	4	Welling	Crabbe	301
	Econ. 100	Principles of Economics	MTWTh	4	Quammen	Crabbe	305	
	*Hist. 31	World History	MTThF	4	Peake	Crabbe	304	
	Hist. 251	Ancient Social History	MTWTh	4	Zimmerman	Cranford	205	
10:10 a.m.								
The Arts	F.A. 6	Introduction to Art Education	MTThF	4	Leacock	Gugg.	204	
	F.A. 20	Art Appreciation	MTThF	4	Ball	Gugg.	200	
	F.A. 205	Color Theory	MTWTh	4	Ellinger	Gugg.	102	
	H.E. 71	Textiles	MTThF	4	Wiebking	Crabbe	206	
	*I.A. 155	Intermediate Art Metal Problems (Lab. arr.)	MTWTh	4	Woodruff	Gugg.	1	
Education	*25	General Psychology	MTWTh	4	Luker	Gunter	205	
	*77	Psychology of Childhood and Youth	MTWTh	4	Sorensen	Gunter	203	
	150b	Methods of Teaching in Secondary Schools (Industrial Arts)	MTWTh	4	Perry	Gugg.	105	
	150b	Methods of Teaching in Secondary Schools (Mathematics)	MTWTh	4	K. Hansen	Kepner	222	
	208a	Audio-Visual Aids in Education	MTWTh	4	Kilbourn	Carter	302	
	210a	Reading in the Primary Grades	MTWTh	4	Harrison	Kepner	107	
	216	Secondary Education	MTWTh	4	S. Gates	Gunter	201	
	375b	Statistical Methods for Research	MTWTh	4	Patterson	Carter	307	
	B.Ed. 1	Beginning Typewriting	TWThF	2	Dempsey	Cranford	213	
	B.Ed. 10	Beginning Gregg Shorthand	MTWTh	4	O. Hansen	Cranford	208	
B.Ed. 115	Business Correspondence	TWThF	4		Cranford	201		
B.Ed. 255	Business Organization and Management	MTWTh	4	K. Hansen	Cranford	210		
Health	*9	American Square Dancing	MTTh	1		Gunter	202	
	22c	Gymnastics (Men)	MTTh	1	Sorensen	Men's Gym		
	*24	Individual Gymnastics (Women)	MWF	1		Gunter	114	
	*24	Individual Gymnastics (Women)	TThF	1		Gunter	114	
	*73	Theory and Practice of Basketball (Men)	MTThF	2	Doubenmier	Men's Gym		
	*74	Theory and Practice of Boxing and Wrestling (Men)	MTThF	2	Hancock	Men's Gym		
	85	Techniques of Tumbling (Women)	MTThF	2	Rugh	Gunter	107	
386	Kinesiology of Individual Gymnastics	MTThF	4	Cave	Gunter	103		
Humanities	*2	Second Course in the Humanities	MTWTh	4	Drummond	Carter	401	
	*2	Second Course in the Humanities	MTWTh	4	Lindou	Carter	303	
	*Eng. 4a	Elementary English Composition	MTThF	4		Carter	304	
	*Eng. 58b	Survey of English Literature	MTThF	4	Hawes	Cranford	203	
	Span. 2	Elementary Spanish	MTThF	4	Candelaria	Crabbe	309	
	*Speech 13	Story Telling	MTThF	4	Langworthy	Cranford	202	
	*Speech 62	Extempore Speaking	MTThF	4	Edmundson	Carter	201	

*Ticketed classes. Please refer to information under "Notice" on Page Two.
†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room	
Music	50b	Introduction to Music Education	MWF	2	Mohr	Kepner	219
	58b	History of Music	TTh	2	Cline	Music	6
	148b	Music Fundamentals for Elementary Teachers	MTWTh	4	Hoydar	Kepner	115
Sciences	*3a	Introduction to Physical Science	MTThF	4	Glidden	Cranford	301
	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford	303
	Bot. 321	Plant Physiology (4 hrs. Lab. TTh 1-3)	MWF	4	Hershey	Cranford	302
	*Chem. 40b	General Inorganic Chemistry (3 hrs. Lab. W 8-11, F 1-4)	TThF	4	Dunn	Crabbe	101
	Math. 175	Differential Calculus	MTThF	4	Fisch	Cranford	207
Phys. 61	General Physics (3 hrs. Lab. TTh 3-5, F 8-11)	MTW	4	Herman	Crabbe	106	
Social Studies	*82	American Life and Institutions	MTWTh	4	H. Christensen	Crabbe	301
	Econ. 102	Contemporary Economic Problems	MTThF	4	Turner	Crabbe	302
	Geog. 10	World Geography	MTWTh	4	West	Crabbe	305
	Hist. 267	Modern Latin America	MTWTh	4	Zimmerman	Cranford	205
11:10 a.m.							
The Arts	*F.A. 1	Drawing	MTThF	4	Mariani	Gugg.	200
	F.A. 114	Design in Textiles	ThF	2	Wiebking	Crabbe	206
	*F.A. 116	Crafts Processes and Design	MTThF	4	Ball	Gugg.	204
	F.A. 209	Print Making	MTThF	4	Wolfe	Gugg.	202
	H.E. 297	Institution Furnishings	MT	2	Wiebking	Crabbe	206
	*I.A. 41abc	Elements of Printing (Lab. arr.)	MTThF	2-4	Bishop	Kepner	4
	*I.A. 61ab	Principles of Drafting (Lab. arr.)	MTThF	2-4	Baab	Gugg.	100
	*I.A. 141abc	Intermediate Printing Problems (Lab. arr.)	MTThF	2-4	Bishop	Kepner	4
	*I.A. 150d	Woodwork (Lab. arr.)	MTThF	4	Adams	Gugg.	4
	*I.A. 351	Teaching Techniques and Course Organization in Woodworking	MTThF	4	Adams	Gugg.	4
Education	*25	General Psychology	MTThF	4	A. Christensen	Gunter	201
	*85	Community Life and Problems	MTThF	4	Rugg	Carter	307
	*105	American Education	MTThF	4	Taylor	Carter	401
	150b	Methods of Teaching in Secondary Schools (Foreign Language)	MTThF	4	Candelaria	Carter	302
	150b	Methods of Teaching in Secondary Schools (Business Education) (2 hrs. Observation)	MTF	4	Waterman	Cranford	213
	150e	Observation and Participation in the Secondary School (Music)	TTh	3	Mohr	Kepner	219
	212a	Arithmetic Concepts for Young Children	MTThF	4	Rosenquist	Cranford	208
	295	Philosophy of Education (Seniors and Graduates only)	MTThF	4	Armentrout	Cranford	203
	B.Ed. 12	Shorthand Transcription	MTThF	4	Farrar	Cranford	214
	*B.Ed. 132	Business Law	MTThF	4	O. Hansen	Cranford	201
Health	122	Kinesiology	MTThF	4	Cave	Gunter	103
	270	Organization and Administration of Physical Education and Athletics	MTThF	4	Hancock	Gunter	205
Humanities	*Eng. 4a	Elementary English Composition	MTThF	4	Orth	Crabbe	302
	*Eng. 4b	Elementary English Composition	MTThF	4	Hutchins	Carter	304
	Eng. 313	Chaucer and Middle English	MTThF	4	Lindou	Carter	303
	French 2	Elementary French	MTThF	4	Gibert	Carter	501
	Ger. 2	Elementary German	MTThF	4	Zahnen	Kepner	204
	*Speech 5	Reading and Speaking English	MTThF	4	Edmundson	Carter	201
*Speech 16	Voice and Diction	MTThF	4	Langworthy	Cranford	202	
Music	153b	Instrumentation	TTh	2	Cline	Music	14
	155b	Technique and Practice of Conducting	MF	2	Cline	Music	14
Sciences	*3b	Introduction to Biological Science	MTThF	4	Hershey	Cranford	303
	†159	Meteorology (May receive Social Studies credit)	MTThF	4	West	Crabbe	305
	Bot. 122	General Bacteriology (4 hrs. Lab. TTh 3-5)	MTTh	4	Selberg	Cranford	301
Math. 76	Plane Trigonometry	MTThF	4	Mallory	Cranford	210	
Social Studies	*82	American Life and Institutions	MTThF	4	Quammen	Crabbe	304
	Soc. 203	World's Great Religions	MTThF	4	Wilson	Cranford	205

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room	
1:10 p.m.							
The Arts	F.A. 221b	Art History II	MTWTh	4	Ellinger	Gugg. 105	
	H.E. 78	Food Preparation and Service (Lab. WTh 1-3)	MTF	4	Newburn	Crabbe 202	
	*I.A. 46ab	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter 203	
	*I.A. 50abc	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 146c	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter 203	
	*I.A. 153a	Woodturning (Lab. arr.)	MTThF	2-4	Adams	Gugg. 4	
	*I.A. 258	Advanced Art Metal (Lab. arr.)	MTWTh	4	Woodruff	Gugg. 1	
*I.A. 359	Teaching Techniques and Course Organization in Metals	MTWTh	4	Woodruff	Gugg. 1		
Education	*25	General Psychology	MTWTh	4	Luker	Gunter 205	
	*85	Community Life and Problems	MTWTh	4	Smart	Carter 307	
	*105	American Education	MTWTh	4	Rugg	Carter 302	
	210d	Remedial Reading in the Elementary School	MTWTh	4	Harrison	Kepner 107	
	878	Advanced Psychology of Learning	MTWTh	4	Patterson	Cranford 202	
*B.Ed. 21	Principles of Accounting I	MTWTh	4	Waterman	Cranford 208		
Health	*5	Tap Dancing	MWF	1		Gunter 202	
	*7	Folk Dancing	TThF	1		Gunter 202	
	*61	Personal Hygiene	MTWTh	4	Hughes	Gunter 203	
	*73	Theory and Practice of Basketball (Men)	MTWTh	1		Men's Gym	
	129b	Teaching of Sports for Women	MTWTh	2	Rugh	Gunter 107	
325	Physiology of Exercise	MTWTh	4	Cave	Gunter 103		
Humanities	*2	Second Course in the Humanities	MTWTh	4	Cross	Carter 401	
	*2	Second Course in the Humanities	MTWTh	4	G. Gates	Carter 303	
	*Eng. 4a	Elementary English Composition	MTWTh	4	Hutchins	Carter 304	
	Eng. 110	Creative Writing	MTWTh	4	Drummond	Cranford 207	
	Eng. 233	The Contemporary Novel	MTWTh	4	Hawes	Cranford 205	
	Span. 106	Survey of Spanish Literature	MTWTh	4	Candelaria	Crabbe 309	
	*Speech 62	Extempore Speaking	MTWTh	4		Carter 201	
	Speech 114	Theatre Workshop	MTWTh	4	Lang-worthy-Wolfe	Little Theater	
	Sciences	*8a	Introduction to Physical Science	MTThF	4	Glidden	Cranford 303
		*Chem. 40a	Principles of Chemistry (3 hrs. Lab. T 1-4, F 8-11)	MWTh	4	Dunn	Crabbe 101
Math. 75b		College Algebra	MTWTh	4	Fisch	Cranford 210	
Phys. 264b		Advanced Electricity	MTWTh	4	Herman	Crabbe 106	
Social Studies		*82	American Life and Institutions	MTThF	4	H. Christensen	Crabbe 305
	Econ. 103	Personal Savings and Investments	MTWTh	4	Quammen	Crabbe 302	
	*Hist. 21	United States History (1865-Present)	MTWTh	4	Welling	Crabbe 301	
	Hist. 252	History of the West	MTThF	4	Peake	Crabbe 304	
Soc. 100	Contemporary Social Problems	MTThF	4	Zeleny	Cranford 201		
2:10 p.m.							
The Arts	*F.A. 2	Composition	MTThF	4	Ball	Gugg. 200	
	F.A. 4	Figure Construction	MTWTh	4	Mariani	Gugg. 202	
	H.E. 70	Clothes and Personality	MWThF	4	Wiebking	Crabbe 206	
	*I.A. 55wx	Metalwork (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg. 1	
	*I.A. 61ab	Principles of Drafting (Lab. arr.)	MTThF	2-4		Gugg. 100	
	I.A. 236	Principles of General Shop Organization	MTWTh	4	Baab	Gugg. 105	
Education	*77	Psychology of Childhood and Youth	MTWTh	4	Taylor	Carter 304	
	*77	Psychology of Childhood and Youth	MTWTh	4	A. Christensen	Gunter 203	
	111e	Handwriting in the Elementary School	MTWTh	4	Rosenquist	Cranford 201	
	150b	Methods of Teaching in the Secondary Schools (Social Studies)	MTWTh	4	Pogue	Kepner 205	
	208f	Workshop in Radio Production	MTWTh	4	Kilbourn	Carter 201	
	211	Improvement of Instruction in Language in the Elementary School	MTWTh	4	McKee	Carter 307	
	*B.Ed. 11	Intermediate Gregg Shorthand	MTWTh	4	K. Hansen	Cranford 208	
	*B.Ed. 41	Introduction to Business	MTWTh	4		Cranford 202	

*Ticketed classes. Please refer to information under "Notice" on Page Two.
†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Health	14	Plays and Games (Women)	MTTh	1		Gunter 107
	16	Swimming (Men)	MWF	1	Doubenmier	Pool
	*16a	Beginning Swimming (Women)	TTh	1	Rugh	Pool
	*46a	Freshman Basketball (Men) (Double Period)	MTWThF	1		Men's Gym
	*74	Theory and Practice of Boxing and Wrestling (Men)	MTWTh	2	Hancock	Men's Gym
	93	Techniques in the Modern Dance	MTWTh	2	Dougherty	Gunter 202
	235	History and Principles of Physical Education	MTWTh	4	Small	Gunter 205
Humanities	*2	Second Course in the Humanities	MTWTh	4	Drummond	Carter 401
	*2	Second Course in the Humanities	MTWTh	4	G. Gates	Carter 303
	*Eng. 58b	Survey of English Literature	MTWTh	4	Hawes	Cranford 203
	Eng. 239	The Forms and Meanings of Poetry	MTWTh	4	Lindou	Cranford 205
	French 6	Intermediate French	MTWTh	4	Gibert	Carter 501
	Speech 18	Discussion and Debate	MTWTh	4	Edmundson	Cranford 207
†Speech 221	Advanced Scene Design and Stage Craft (May receive Fine Arts credit)	MTWTh	4	Wolfe	Little Theater	
Music	2b	Sight Singing, Ear Training and Notation	Daily	3	Mohr	Kepner 219
	270b	Advanced Harmony and Form Analysis (For B.Mus. degree)	MTWTh	4	Hutcherson	Music 6
Sciences	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford 303
	Math. 273	Modern Euclidean Geometry	MTWTh	4	Mallory	Cranford 210
	Zool. 211	Comparative Morphology of the Vertebrates (3 hrs. Lab. W 1-4)	MTTh	4	Harrah	Cranford 301
Social Studies	*82	American Life and Institutions	MTThF	4	Welling	Crabbe 301
	Geog. 48	United States	MTWTh	4	West	Crabbe 305
	Soc. 104	Marriage and the Family	MTThF	4	Zeleny	Crabbe 304
3:10 p.m.						
The Arts	F.A. 186	Techniques and Materials	MTWTh	4	Mariani	Gugg. 202
	F.A. 220	Oil Painting	MTWTh	4	Ellinger	Gugg. 200
	F.A. 278	Organization and Administration of the Art Program	MTWTh	4	Ross-Perry	Cranford 202
	H.E. 94	Elementary Cookery and Food Service (Lab. MT 3-5)	WTh	4	Newburn	Crabbe 202
H.E. 191b	Home Management Residence	Arr.	2	Foss	Cottage	
Education	229a	Educational Measurements in Elementary Schools	MTWTh	4	Harrison	Kepner 219
	†261a	Pre-School and Kindergarten Education (3 hrs. Observation) (May receive Home Economics credit)	MTWTh	4	Noell	Cranford 207
	300	Introduction to Graduate Study	MTWTh	4	Patterson	Carter 302
	*B.Ed. 20	Introductory Accounting	MTWTh	4		Cranford 208
Health	*15	Volleyball (Women)	TThF	1		Gunter 107
	*16a	Beginning Swimming (Women)	TTh	1	Rugh	Pool
	*16b	Intermediate Swimming (Women)	MW	1	Rugh	Pool
	*18	Basketball (Women)	MWF	1		Gunter 107
	22	Matwork (Men)	MTTh	1		Men's Gym
	*46b	Varsity Basketball (Men) (Double Period)	MTWThF	1	Butler	Men's Gym
	*47a	Freshman Wrestling (Men)	MTWThF	1	Hancock	Men's Gym
94	Use of Music in the Dance	MTWTh	2	Dougherty	Gunter 202	
Music	44	A Cappella Choir	MTWTh	1	Cline	Music 14
Sciences	*3a	Introduction to Physical Science	MTWTh	4	Fisch	Cranford 303
Social Studies	*82	American Life and Institutions	MTThF	4	Quammen	Crabbe 301
	Geog. 112	Economic Geography	MTWTh	4	West	Crabbe 305
	Hist. 31	World History	MTWTh	4	Peake	Crabbe 304
	Pol. Sci. 276	Contemporary European Governments	MTWTh	4	H. Christensen	Crabbe 309
4:10 p.m.						
Education	26c	Girl Scout Leadership (Double Period)	T	2		Gunter 108
	310a	Special Problems in the Supervision of Reading (Double Period)	TTh	4	McKee	Cranford 205

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Health	6b	Intermediate Modern Dancing	MTTh	1	Dougherty	Gunter 202
	*15	Volleyball (Women)	TThF	1		Gunter 107
	*18	Basketball (Women)	MWF	1		Gunter 107
	*47b	Varsity Wrestling (Men) (Double Period)	MTWThF	1	Hancock	Men's Gym
	*48a	Freshman Gymnastics (Men)	MTWThF	1	Sorensen	Men's Gym
	*48b	Varsity Gymnastics (Men) (Double Period)	MTWThF	1	Sorensen	Men's Gym
	*49a	Freshman Swimming (Men)	MTWThF	1		Pool
*49b	Varsity Swimming (Men) (Double Period)	MTWThF	1		Pool	
Music	42	College Orchestra	MTWTh	1	Ginsburg	Music 14

5:10 p.m.

Music	43	Concert Band	MTWTh	1	King	Music 14
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7:10 p.m.

Education	26b	Boy Scout Leadership (Double Period)	T	2	Ninemires	Carter 302
	249b	Problems of Intergroup Relations (Double Period)	W	2	Rugg-Zeleny	Carter 302
	313a	Special Problems in the Supervision of the Social Studies (Double Period)	MT	4	Hambrick	Carter 304

7:30 p.m.

Health		Recreational Swimming (Men and Women) (7:30-9 p.m.)	W	0	Guard	Pool
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SPRING QUARTER, 1949

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
8:10 a.m.						
The Arts	*F.A. 2	Composition	MTThF	4	Ball	Gugg. 200
	*F.A. 124	Art in the Elementary School	MTThF	4	Leacock	Gugg. 204
	†H.E. 183	Home Nursing (Health and Physical Education)	MTWTh	4	Bottinelli	Crabbe 206
	H.E. 286	Institution Cookery (4 hrs. Lab. arr.)	WF	4	Newburn	Crabbe 202
	*I.A. 55wx	Metalwork (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg. 1
	*I.A. 242abc	Advanced Theory and Practice of Typographic Design (Lab. arr.)	MTWTh	4	Bishop	Kepner 4
	*I.A. 343	Teaching Techniques and Course Organization in Printing and the Graphic Arts (Lab. arr.)	MTWTh	4	Bishop	Kepner 4
Education	*25	General Psychology	MTWTh	4	Luker	Gunter 203
	*85	Community Life and Problems	MTWTh	4	Ninemires	Carter 307
	208c	Communications, Education, and Propaganda	MTWTh	4	Kilbourn	Crabbe 302
	343	School Administration — School Finance (Second Course)	MTWTh	4	Troxel	Cranford 301
	B.Ed. 1	Beginning Typewriting	TWThF	2	Dempsey	Cranford 213
	*B.Ed. 13	Office Practice (Double Period)	MTThF	4	Farrar	Cranford 214
	B.Ed. 73	Merchandise Information — Non-Textiles	TWThF	4	O. Hansen	Cranford 207
	*B.Ed. 181	Business Law	TWThF	4		Cranford 201
Health	14	Plays and Games (Women)	MTTh	1	Cave	Gunter 107
	*28	Tennis (Women)	MWF	1		Gunter 114
	*23	Tennis (Women)	TThF	1		Gunter 114
	*272	Recreation Leadership	MTWTh	4	Small	Men's Gym
Humanities	*3	Third Course in the Humanities	MTWTh	4	Cross	Carter 401
	*3	Third Course in the Humanities	MTWTh	4	Hutchins	Carter 304
	*Eng. 4a	Elementary English Composition	MTThF	4	Drummond	Carter 303
	*Eng. 4b	Elementary English Composition	MTThF	4		Cranford 202
	Eng. 58c	Survey of American Literature	MTThF	4	G. Gates	Carter 302
	Eng. 255a	Shakespeare's Earlier Dramas	MWThF	4	Newman	Cranford 203
	*Speech 62	Extempore Speaking	MTThF	4		Carter 201

*Ticketed classes. Please refer to information under "Notice" on Page Two.
†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room	
Music	99c	Beginning Brass Instruments	MTWTh	2	King	Music	11
	99c	Beginning Woodwind Instruments	MTWTh	2		Music	6
	99c	Beginning String Instruments	MTWTh	2	B. Ginsburg	Music	14
Sciences	*3a	Introduction to Physical Science	MTWTh	4	Herman	Crabbe	106
	191	Science in the Elementary School (Educational Films and Observation, 1 hr. arr.)	MTThF	4	Neal	Kepner	13
	*Bot. 23	General Botany (3 hrs. Lab. M 2-5, W 1-4)	MWF	4	Hershey	Cranford	303
	Chem. 145	Quantitative Analysis (9 hrs. Lab. MWF 1-4)	TTh	5	Dunn	Crabbe	101
	Math. 78c	College Mathematics	MTThF	4	Fisch	Cranford	208
	Math. 177a	Analytic Geometry	MTWTh	4	Mallory	Cranford	210
Zool. 114	Bird Study (Field Trips arr.)	MTWTh	4	Harrah	Cranford	205	
Social Studies	*88	Contemporary World Civilizations	MTThF	4	Zeleny	Crabbe	304
	Geog. 147	Latin America	MTThF	4	West	Crabbe	305
	Hist. 364	Civil War and Reconstruction	MTThF	4	Peake	Crabbe	309
	Pol. Sci. 171	State and Local Government	MTWTh	4	H. Christensen	Crabbe	301
9:10 a.m.							
The Arts	F.A. 212	Problems in Design	MTWTh	4	Ellinger	Gugg.	202
	F.A. 264	Industrial Arts Design	MTWTh	4	Mariani	Gugg.	200
	H.E. 191a	Home Management Theory	MTThF	4	Wiebking	Crabbe	206
	*I.A. 41abc	Elements of Printing (Lab. arr.)	MTThF	2-4	Bishop	Kepner	4
	*I.A. 50abc	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg.	4
	*I.A. 61ab	Principles of Drafting (Lab. arr.)	MTThF	2-4		Gugg.	100
	*I.A. 141abc	Intermediate Printing Problems (Lab. arr.)	MTThF	2-4	Bishop	Kepner	4
	*I.A. 153a	Woodturning (Lab. arr.)	MTThF	2-4	Adams	Gugg.	4
	*I.A. 248	Teaching Techniques and Course Organization in Bookbinding (Lab. arr.)	MTWTh	4	Baab	Carter	203
	Education	*25	General Psychology	MTWTh	4	Patterson	Carter
*77		Psychology of Childhood and Youth	MTWTh	4	Taylor	Gunter	201
150a		Observation and Applied Techniques of Teaching in the Elementary School	Daily	4	Davis	Kepner	218
150b		Methods of Teaching in Secondary Schools (Home Arts)	TTh	2	Foss	Crabbe	306
150b		Methods of Teaching in Secondary Schools (Industrial Arts)	MTWTh	4	Perry	Gugg.	105
228a		Mental Hygiene	MTWTh	4	A. Christensen	Carter	307
344		School Administration — School Buildings (Third Course)	MTWTh	4	Troxel	Cranford	301
*B.Ed. 12		Shorthand Transcription	MTWTh	4	K. Hansen	Cranford	213
*B.Ed. 22		Principles of Accounting II	TWThF	4	Waterman	Cranford	208
B.Ed. 60		Calculating Machines	TWThF	2	O. Hansen	Cranford	211
Health	3	Orientation in Physical Education Activities (Men)	MTTh	1	Doubenmier	Men's Gym	
	*61	Personal Hygiene	MTWTh	4	Bottinelli	Gunter	203
	*62	First Aid	MT	2	Sorensen	Gunter	205
	*62	First Aid	ThF	2	Sorensen	Gunter	205
	91	Techniques in Tap Dancing and Composition	MTWTh	2	Cave	Gunter	202
	206	Health Counseling	MTWTh	4	Hughes	Gunter	103
Humanities	*3	Third Course in the Humanities	MTWTh	4	Cross	Carter	401
	*3	Third Course in the Humanities	MTWTh	4	Lindou	Carter	303
	*Eng. 4b	Elementary English Composition	MTThF	4	Hutchins	Carter	304
	Eng. 236	The Theater and the World Today	MWThF	4	Newman	Cranford	201
	French 207	Survey of French Literature	MTThF	4	Gibert	Carter	501
	Span. 7	Intermediate Spanish	MTThF	4	Candelaria	Crabbe	309
	*Speech 5	Reading and Speaking English	MTThF	4		Carter	201
	Speech 120	The Art of Straight Thinking	MTWTh	4	Toussaint	Cranford	202
Music	52c	Harmony	MTWTh	3	Goodbrod	Music	6
	152c	Counterpoint	MW	2	Ginsburg	Music	14
	153c	Instrumentation	TTh	2	Cline	Music	14

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room
Sciences	*8b	Introduction to Biological Science	MTWTh	4	Hershey	Cranford 303
	205	Integrated Science	MTWTh	4	Selberg	Cranford 302
	*Chem. 41a	Introduction to Chemistry (3 hrs. Lab. T 1-4, W 8-11)	MTTh	4	Glidden	Crabbe 101
	Chem. 243	Organic Chemistry (3 hrs. Lab. F 1-4)	MTThF	5	Dunn	Crabbe 207
	Math. 75a	College Algebra	MTThF	4	Fisch	Cranford 207
	Math. 277	Theory of Equations	MTWTh	4	Mallory	Cranford 210
	Phys. 63	General Physics (3 hrs. Lab. TTh 3-5, F 8-11)	MTW	4	Herman	Crabbe 106
Phys. 65	Household Physics (Lab. F)	MTWTh	4	Newburn	Crabbe 202	
Social Studies	*83	Contemporary World Civilizations	MTThF	4	Welling	Crabbe 301
	Econ. 100	Principles of Economics	MTWTh	4	Quammen	Crabbe 305
	*Hist. 32	World History	MTThF	4	Peake	Crabbe 304
	Hist. 261	Medieval Life and Institutions	MTWTh	4	Zimmerman	Cranford 205

10:10 a.m.

Division	No.	Description	Days	Cr. Hrs.	Instructor	Room	
The Arts	F.A. 8	Drawing for Elementary School Teachers	MTThF	4	Ball	Gugg. 202	
	*F.A. 216g	Weaving	MTThF	4	Leacock	Gugg. 204	
	F.A. 225	Figure Printing	MTWTh	4	Ellinger	Gugg. 200	
	H.E. 72	Fundamentals of Clothing Construction (4 hrs. Lab. arr. M ThF 3-5)	MTTh	4	Wiebking	Crabbe 206	
	*I.A. 46ab	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter 203	
	*I.A. 150d	Woodwork (Lab. arr.)	MTThF	4	Adams	Gugg. 4	
	*I.A. 155	Intermediate Art Metal Problems (Lab. arr.)	MTWTh	4	Woodruff	Gugg. 1	
	Education	*25	General Psychology	MTWTh	4	A. Christensen	Gunter 205
		58	Teaching Reading in the Elementary School	MTWTh	4	Rosenquist	Cranford 202
		*77	Psychology of Childhood and Youth	MTWTh	4	Taylor	Gunter 201
*85		Community Life and Problems	MTWTh	4	Smart	Carter 307	
150b		Methods of Teaching in Secondary Schools (Science)	MTWTh	4	Decker	Cranford 302	
150e		Observation and Participation in the Secondary School (Instrumental Music) (Lab. arr.)	TTh	2	King	Kepner 220	
295		Philosophy of Education (Seniors and Graduates only)	MTWTh	4	Armentrout	Cranford 203	
300		Introduction to Graduate Study	MTWTh	4	Patterson	Carter 302	
B.Ed. 2		Advanced Typewriting	TWThF	2	Dempsey	Cranford 213	
*B.Ed. 11		Intermediate Gregg Shorthand	MTWTh	4	O. Hansen	Cranford 208	
*B.Ed. 14		Secretarial Practice (Double Period)	MTThF	4	Farrar	Cranford 214	
B.Ed. 257		Principles of Insurance	MTWTh	4	K. Hansen	Cranford 205	
Health		*19	Minor Individual Sports (Women)	MWF	1	Small	Gunter 107
	*19	Minor Individual Sports (Women)	TThF	1	Small	Gunter 107	
	*23	Tennis (Men)	TThF	1		Courts	
	*23	Tennis (Women)	MWF	1		Gunter 202	
	*61	Personal Hygiene	MTWTh	4	Hughes	Gunter 203	
	*75	Theory and Practice of Track and Baseball — Section A (Men) (Double Period) (March 23-May 3)	MTThF	2	Hancock-Butler	Field	
	*75	Theory and Practice of Track and Baseball — Section B (Men) (Double Period) May 5-June 7)	MTThF	2	Hancock-Butler	Field	
	*76	Theory and Practice of Football—Section A (Men) (Double Period) (May 5-June 7)	MTThF	2	Hancock	Field	
	*76	Theory and Practice of Football—Section B (Men) (Double Period) (March 23-May 3)	MTThF	2	Hancock	Field	
	232	Problems of Individual Gymnastics	MTThF	4	Cave	Gunter 103	
Humanities	*3	Third Course in the Humanities	MTWTh	4	Drummond	Carter 401	
	*3	Third Course in the Humanities	MTWTh	4	Lindou	Carter 303	
	*Eng. 4a	Elementary English Composition	MTThF	4		Carter 304	
	Eng. 312	Old English	MTThF	4	G. Gates	Carter 501	
	Span. 3	Elementary Spanish	MTThF	4	Candelaria	Crabbe 309	
	*Speech 5	Reading and Speaking English	MTThF	4	Edmundson	Carter 201	
	*Speech 217	Advanced Oral Interpretation of Literature	MTThF	4	Langworthy	Little Theater	

*Ticketed classes. Please refer to information under "Notice" on Page Two.
†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Room	Instructor	
Music	50c	Introduction to Music Education	MWF	2	Mohr	Kepner	219
	58c	History of Music	TTh	2	Cline	Music	14
	274	Problems of Music Appreciation	MTWTh	4	Hoydar	Kepner	115
Sciences	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford	303
	*Chem. 40c	Introductory Organic Chemistry (3 hrs. Lab. F 1-4, W 8-11)	TThF	4	Dunn	Crabbe	101
	Math. 176	Integral Calculus	MTThF	4	Fisch	Cranford	210
	Phys. 62	General Physics (3 hrs. Lab. TTh 3-5, F 3-11)	MTW	4	Herman	Crabbe	106
	*Zool. 117	Human Physiology (3 hrs. Lab. W 1-4)	MWTh	4	Harrah	Cranford	304
Social Studies	*83	Contemporary World Civilizations	MTWTh	4	H. Christensen	Crabbe	301
	Geog. 143	Europe	MTWTh	4	West	Crabbe	305
	Hist. 360	The French Revolution	MTThF	4	Peake	Crabbe	304

11:10 a.m.

The Arts	F.A. 20	Art Appreciation	MTThF	4	Wolfe	Gugg.	202
	*F.A. 108	Clay Modeling (Lab. arr.)	MTThF	2-4	Mariani	Gugg.	106
	*F.A. 117	Pottery (Lab. arr.)	MTThF	2-4	Mariani	Gugg.	106
	H.E. 275	The Home and Its Decoration	MTThF	4	Wiebking	Crabbe	206
	*I.A. 41abc	Elements of Printing (Lab. arr.)	MTThF	2-4	Bishop	Kepner	4
	*I.A. 50abc	Woodwork (Lab. arr.)	MTThF	2-4	Adams	Gugg.	4
	*I.A. 141abc	Intermediate Printing Problems (Lab. arr.)	MTThF	2-4	Bishop	Kepner	4
	*I.A. 153a	Woodturning (Lab. arr.)	MTThF	2-4	Adams	Gugg.	4
	I.A. 234	History of Industrial Arts	MTThF	4	Baab	Gugg.	105
	Education	*25	General Psychology	MTThF	4	Luker	Gunter
54		Teaching Arithmetic in the Elementary School	MTThF	4	Rosenquist	Cranford	203
*105		American Education	MTThF	4	Rugg	Carter	401
150b		Methods of Teaching in Secondary Schools (English)	MTThF	4	Meyer	Kepner	221
315		Techniques in Interviewing and Counseling	MTThF	4	A. Christensen	Cranford	301
*B.Ed. 37		Business Mathematics	MTThF	4	O. Hansen	Cranford	208
B.Ed. 115		Business Correspondence	TWThF	4		Cranford	202
B.Ed. 154	Consumer Education	TWThF	4	Waterman	Gunter	103	
Health	7	Folk Dancing	MTTh	1	Cave	Gunter	202
	†271	Safety Education (Education)	MTThF	4	Butler	Gunter	205
Humanities	*Eng. 4a	Elementary English Composition	MTThF	4	Lindou	Carter	303
	*Eng. 4b	Elementary English Composition	MTThF	4	Drummond	Carter	302
	Eng. 201	Journalism — The School Newspaper and Annual	MTThF	4	Hartman	Cranford	207
	Eng. 289b	Literature of the New Testament	MTThF	4	Wilson	Cranford	201
	French 3	Elementary French	MTThF	4	Gibert	Carter	501
	Ger. 3	Elementary German	MTThF	4	Zahnen	Kepner	204
	*Speech 16	Voice and Diction	MTThF	4	Edmundson	Carter	201
*Speech 112	Creative Dramatics	MTThF	4	Langworthy	Little Theater		
Music	155c	Technique and Practice of Conducting	TTh	2	Cline	Music	14
	250	Special Problems in Public School Music	MTThF	2-4	Mohr	Kepner	219
Sciences	*3a	Introduction to Physical Science	MTThF	4	Glidden	Cranford	303
	Bot. 227	Systematic Botany	MTThF	4	Hershey	Cranford	302
	†*Geol. 186	General Geology (Field Trips arr.) (Social Studies credit.)	MTThF	4	West	Gunter	203
	Math. 75b	College Algebra	MTThF	4	Mallory	Cranford	210
Social Studies	*83	Contemporary World Civilizations	MTThF	4	Quammen	Crabbe	301
	*Hist. 20	United States History (to 1865)	MTThF	4	Welling	Crabbe	304

1:10 p.m.

The Arts	F.A. 13	Lettering	MT	2	Ellinger	Gugg.	200
	F.A.-103a	Introduction to Watercolor Painting	MTWTh	4	Mariani	Gugg.	202
	*F.A. 116	Crafts Processes and Design	MTThF	4	Ball	Gugg.	204
	F.A. 135a	Life Class	WTh	2	Ellinger	Gugg.	200
	F.A. 203	Watercolor Painting	MTWTh	4	Mariani	Gugg.	202
	H.E. 180	Family Relationships	WTh	2	Newburn	Crabbe	202
	H.E. 181	Child Care and Training (1 hr. Observation)	MT	2	Noell	Carter	501
	*I.A. 54a	Workshop in Industrial Arts for Elem. Teachers (Lab. arr.)	MTThF	4	Adams	Gugg.	4
	*I.A. 61ab	Principles of Drafting (Lab. arr.)	MTThF	2-4		Gugg.	100
	*I.A. 360	Problems of Metal Shop (Lab. arr.)	MTWTh	4	Woodruff	Gugg.	1

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Room	Instructor		
Education	*25	General Psychology	MTWTh	4	A. Christensen	Gunter	203	
	*85	Community Life and Problems	MTWTh	4	Rugg	Carter	307	
	*105	American Education	MTWTh	4	Taylor	Gunter	201	
	212	Improvement of Instruction in Arithmetic in the Elementary School	MTWTh	4	McCowen	Gunter	205	
	216	Secondary Education	MTWTh	4	S. Gates	Cranford	203	
	229	Measurement and Evaluation	MTWTh	4	Patterson	Cranford	202	
	*B.Ed. 22	Principles of Accounting II	MTWTh	4	Waterman	Cranford	208	
	B.Ed. 272	The Business Curriculum	MTWTh	4	K. Hansen	Cranford	205	
	Health	*19	Minor Individual Sports (Women)	MTTh	1	Cave	Gunter	107
		*23	Tennis (Women)	MWTh	1		Gunter	114
*71		Theory and Practice of Minor Sports (Men)	MTWTh	2	Doubenmier	Men's Gym		
129c		Teaching of Sports for Women	MTThF	2	Rugh	Gunter	202	
163		Coaching of Track and Field	ThF	2	Hancock	Gunter	103	
164		Coaching of Baseball	MT	2	Butler	Gunter	103	
Humanities	*3	Third Course in the Humanities	MTWTh	4	Cross	Carter	401	
	*3	Third Course in the Humanities	MTWTh	4	G. Gates	Carter	303	
	*Eng. 4a	Elementary English Composition	MTWTh	4	Orth	Carter	201	
	*Eng. 4b	Elementary English Composition	MTWTh	4	Hutchins	Carter	302	
	Eng. 121	Literature in the Elementary School	MTWTh	4	Lehr	Kepner	114	
	Eng. 255b	Shakespeare's Later Dramas	MWThF	4	Newman	Cranford	201	
	Span. 107	Survey of Spanish Literature	MTWTh	4	Candelaria	Crabbe	309	
	*Speech 5	Reading and Speaking English	MTWTh	4	Edmundson	Cranford	207	
	*Speech 115	Theater Workshop (Directing)	MTWTh	4	Langworthy-Wolfe	Little Theater		
	Music	149	Music Methods and Materials for Elementary Teachers	MTWTh	4	Hoydar	Kepner	115
Sciences	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford	303	
	*Chem. 40b	General Inorganic Chemistry (3 hrs. Lab. T 1-4, F 8-11)	MWF	4	Glidden	Crabbe	101	
	*Math. 170	Mathematical Instruments and Surveying (Double Period)	MTh	4	Fisch	Cranford	210	
	Phys. 264c	Sound, Light, and Wave Motion	MTWTh	4	Herman	Crabbe	106	
Social Studies	*83	Contemporary World Civilizations	MTThF	4	H. Christensen	Crabbe	304	
	Econ. 207	Comparative Economic Systems	MTWTh	4	Quammen	Crabbe	302	
	*Hist. 20	United States History (to 1865)	MTWTh	4	Welling	Crabbe	301	
	Soc. 101	Principles of Sociology	MTThF	4	Zeleny	Crabbe	305	

2:10 p.m.

The Arts	F.A. 119	Poster and Display	MTWTh	4	Ellinger	Gugg.	200
	H.E. 72	Fundamentals of Clothing Construction (4 hrs. Lab. MThF 3-5)	MWTh	4	Wiebking	Crabbe	206
	H.E. 198	Meal Planning and Service (4 hrs. Lab. arr.)	MW	4	Newburn	Crabbe	202
	*I.A. 46ab	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter	203
	*I.A. 55wx	Metalwork (Lab. arr.)	MTWTh	2-4	Woodruff	Gugg.	1
	*I.A. 146c	Bookbinding (Lab. arr.)	MTWTh	2-4	Lubbers	Carter	203
	*I.A. 161cd	Principles of Drafting (Lab. arr.)	MTWTh	2-4	Baab	Gugg.	100
*I.A. 362ab	Problems in Drafting and Planning	MTWTh	4	Baab	Gugg.	100	
Education	*77	Psychology of Childhood and Youth	MTWTh	4	McCowen	Gunter	201
	150b	Methods of Teaching in the Secondary Schools (Social Studies)	MTWTh	4	Pogue	Kepner	205
	214	The Elementary School	MTWTh	4	Davis	Cranford	203
	250	Principles of Teaching	MTWTh	4	Taylor	Gunter	103
	379	Experimental Education	MTWTh	4	Patterson	Cranford	202
	*B.Ed. 41	Introduction to Business	MTWTh	4		Cranford	201
Health	16	Swimming (Men)	MWF	1		Pool	
	*16a	Beginning Swimming (Women)	ThF	1	Dougherty	Pool	
	*23	Tennis (Women)	MTTh	1		Gunter	114
	*52a	Freshman Baseball (Men) (Double Period)	MTWThF	1		Field	
	*61	Personal Hygiene	MTWTh	4	Hughes	Gunter	203
	*70	Theory and Practice of Gymnastics and Matwork (Men)	MTWTh	2	Sorensen	Men's Gym	
	84	Techniques of Tennis and Softball (Women)	MWThF	2	Rugh	Gunter	205
*92	American Square-Social Dancing	MTWTh	2	Small	Gunter	107	

*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

Division	No.	Description	Days	Cr. Hrs.	Room	Instructor	
Humanities	*3	Third Course in the Humanities	MTWTh	4	G. Gates	Carter	303
	*Eng. 4a	Elementary English Composition	MTWTh	4	Hutchins	Carter	302
	Eng. 110	Creative Writing	MTWTh	4	Drummond	Carter	304
	Eng. 211	The English Language	MTWTh	4	Lindou	Cranford	205
	French 7	Intermediate French	MTWTh	4	Gibert	Carter	501
	*Speech 16	Voice and Diction	MTWTh	4		Carter	201
	*Speech 62	Extempore Speaking	MTWTh	4	Edmundson	Cranford	207
	†Speech 221	Advanced Scene Design and Stage Craft (Prerequisite, Speech 65 or equivalent) (May receive Fine Arts credit)	MTWTh	4	Wolfe	Little Theatre	
Music	2c	Sight Singing, Ear Training, and Notation	Daily	3	Mohr	Kepner	219
	151	Principles of Piano Teaching	MTWTh	3	Hutcherson	Baker	
Sciences	*3b	Introduction to Biological Science	MTWTh	4	Selberg	Cranford	303
	Math. 177b	Analytic Geometry	MTWTh	4	Mallory	Cranford	208
	Zool. 317	Endocrinology	MTWTh	4	Harrah	Cranford	300
Social Studies	*83	Contemporary World Civilizations	MTWTh	4	Welling	Crabbe	301
	Geog. 10	World Geography	MTWTh	4	West	Crabbe	305
	Soc. 206	Crime and Delinquency	MTThF	4	Zeleny	Crabbe	304

3:10 p.m.

The Arts	*F.A. 1	Drawing	MTWTh	4	Mariani	Gugg.	200
	*F.A. 114	Design in Textiles	MTThF	4	Ball	Gugg.	204
	H.E. 191b	Home Management Residence	Arr.	2	Foss	Cottage	
Education	277a	Child Psychology	MTWTh	4	McCowen	Gunter	201
	282	Directed Practice for Library Minors	Arr.	4	Library Staff	Carter	302
	*B.Ed. 21	Principles of Accounting I	MTWTh	4		Cranford	208
Health	8	Orientation in Physical Education Activities (Men)	MTTh	1	Doubenmier	Men's Gym	
	*11	Softball (Women)	MTTh	1		Gunter	114
	*19	Minor Individual Sports (Women)	MTTh	1		Gunter	107
	24	Individual Gymnastics (Women)	MTTh	1	Cave	Gunter	114
	*52b	Varsity Baseball (Double Period)	MTWThF	1	Butler	Field	
	*53a	Freshmen Track	MTWThF	1	Hancock	Field	
	*53b	Varsity Track (Double Period)	MTWThF	1	Hancock	Field	
	*54a	Freshman Tennis	MTWThF	1		Courts	
	*54b	Varsity Tennis (Double Period)	MTWThF	1		Courts	
	83	Techniques of Swimming (Women)	MTWTh	2	Rugh	Pool	
	95	Problems in Teaching the Dance	MTWTh	2	Dougherty	Gunter	202
	278	Organization and Administration of the Health Program	MTWTh	4	Ross-Hughes	Cranford	203
Humanities	Eng. 230	Prose and Poetry of the Romantic Movement	MWThF	4	Newman	Cranford	201
	French 207	Survey of French Literature	MTWTh	4	Gibert	Carter	501
Music	44	A Cappella Choir	MTWTh	1	Cline	Music	14
Sciences	*3a	Introduction to Physical Science	MTWTh	4	Glidden	Cranford	303
	293	Science in General Education	MTThF	4	Decker	Cranford	301
Social Studies	*83	Contemporary World Civilizations	MTWTh	4	Quammen	Crabbe	301
	Econ. 304	History of Economic Thought (Seminar) (3:10-5 p.m.)	TTh	4	Turner	Carter	303
	Hist. 32	World History	MTWTh	4	Peake	Crabbe	304
	Pol. Sci. 377	Constitution and Its Interpretation	MTThF	4	H. Christensen	Crabbe	302

4:10 p.m.

Education	26a	Camp Fire Girls Leadership (Double Period)	M	2	Lee	Gunter	201
	312a	Special Problems in the Supervision of Arithmetic (Double Period)	TTh	4	McCowen	Gunter	201
Health	6c	Advanced Modern Dance	MTTh	1	Dougherty	Gunter	202
	*11	Softball (Women)	MTTh	1		Gunter	107
	*16b	Intermediate Swimming (Women)	MW	1	Rugh	Pool	
	*16c	Advanced Swimming (Women)	TTh	1	Rugh	Pool	
	22c	Gymnastics (Men)	MTTh	1	Sorensen	Men's Gym	
Music	42	College Orchestra	MTWTh	1	Ginsburg	Music	14

5:10 p.m.

Music	43	Concert Band	MTWTh	1	King	Music	14
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*Ticketed classes. Please refer to information under "Notice" on Page Two.

†Credit also may be earned in the Division indicated. See Page Two.

