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**Eastern Washington College of Education, Cheney, Washington,
annual catalog, 1937-1938**

Eastern Washington College of Education

Eastern Washington College
of Education

Cheney, Washington



ANNUAL CATALOG

1937-1938

VOLUME XXXIII
No. 3

BULLETIN

JUNE
1937

Eastern Washington College
of Education

Cheney, Washington

ANNUAL CATALOG
1937-1938

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Colleges and the Northwest Association of
Secondary and Higher Schools

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CALENDAR 1937-1938

Fall Quarter

Preliminary tests, Tuesday, September 14, 9:00 a. m.
Registration, Wednesday, September 15.
Instruction begins Thursday, September 16.
Preregistration for winter quarter, November 15-December 3.
Thanksgiving recess begins Wednesday, November 24, noon.
Thanksgiving recess ends Monday, November 29, 8:00 a. m.
Instruction ends Friday, December 3, 4:00 p. m.

Winter Quarter

Registration, Monday, December 6.
Instruction begins Tuesday, December 7.
Christmas recess begins Friday, December 17, 4:00 p. m.
Christmas recess ends Monday, January 3, 8:00 a. m.
Washington's Birthday (holiday) Tuesday, February 22.
Preregistration for spring quarter, February 23-March 10.
Instruction ends Thursday, March 10, 4:00 p. m.

Spring Quarter

Registration, Monday, March 14.
Instruction begins Tuesday, March 15.
Spring recess begins Tuesday, April 5, 4:00 p. m.
Spring recess ends Monday, April 11, 8:00 a. m.
Preregistration for summer quarter, May 16-June 4.
Memorial Day (holiday), Monday, May 30.
Instruction ends Friday, June 3, 4:00 p. m.

Summer Quarter

Registration, Thursday, June 9.
Instruction begins Friday, June 10.
Independence Day (holiday) Monday, July 4.
First term ends Friday, July 15, 3:00 p. m.
Second term begins Monday, July 18, 8:00 a. m.
Preregistration for fall quarter, August 1-September 10.
Instruction ends Friday, August 19, 3:00 p. m.

CALENDAR 1937-1938

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BOARD OF TRUSTEES

JAMES E. DILLARD.....Spokane
JOEL E. FERRIS.....Spokane
RICHARD S. MUNTER, *Chairman*.....Spokane

STATE BOARD OF EDUCATION

STANLEY F. ATWOOD.....State Superintendent
LEE PAUL SIEG.....President, State University
ERNEST O. HOLLAND.....President, State College
C. E. FISHER.....President, Western Wash. College of Education
ELMER L. BRECKNER.....City Superintendent, Tacoma
FRANK M. BROCK.....County Superintendent, Mount Vernon
S. E. FLEMING.....Assistant Superintendent, Seattle

ADMINISTRATIVE OFFICERS

RICHARD T. HARGREAVES.....President
C. S. KINGSTON.....Vice-president
G. W. WALLACE.....Registrar, Dean of Men
EUNICE NELSON.....Dean of Women
H. N. STRONACH.....Bursar
CLARK M. FRASIER.....Director Laboratory School
GEORGE E. CRAIG.....Director Placement Bureau
R. F. HAWK.....Director Research Bureau
O. W. FREEMAN.....Director Extension Division
FRANCES WILSON.....Director Dining Hall
EMILY J. CRANEY.....College Nurse

ASSISTANT ADMINISTRATIVE OFFICERS

NAOMI MELDE.....Secretary to the President
ISABEL RICHARDS.....Assistant Registrar
MARGIE PERSONS.....Secretary to the Dean of Women
GLADYS QUINN.....Assistant Bursar
LEONA OLSON.....Secretary Placement Bureau

LIBRARY STAFF

HUGH M. BLAIR.....Librarian
MARY E. BARTON.....Assistant Librarian
RUTH M. JOHNSON.....Assistant Librarian
MARIE HAAS.....Children's Librarian

FACULTY COMMITTEES

- Alumni:* Mrs. Anderson, Mr. Pence, Miss Lang, *Chairman.*
- Art:* Miss Gingrich, Miss Wiley, Miss Swerer, *Chairman.*
- Athletics:* Mr. Cobb, Mr. Woodward, Dr. Freeman, *Chairman*
- Catalog:* Mr. Allen, Mr. Hawk, Dean Wallace, *Chairman.*
- Convocation:* Mr. Kingston, Miss Newell, Mr. Rowles, *Chairman.*
- Curriculum:* Mr. Frasier, Dr. Freeman, Mr. Hungate, Mr. Kingston, Mr. Rowles, Dr. Tieje, Dr. Williamson, Mr. Woodward, Mr. Hawk, *Chairman.*
- Discipline:* Mr. Holmquist, Miss Nelson, Mr. Kingston, *Chairman.*
- Lecture:* Dr. Freeman, Miss Hollingshead, Mr. Hungate, *Chairman.*
- Loan Fund:* Dean Nelson, Mr. Stronach, Dean Wallace, Mr. Kingston, *Chairman.*
- Music:* Miss Goodsell, Miss Lawton, Mr. Rowles, *Chairman.*
- Student Health and Hygiene:* Dr. Barber, Miss Craney, Miss Davidson, Mr. Woodward, *Chairman.*
- Student Personnel:* Mrs. Anderson, Mr. Frasier, Mr. Hawk, Mr. Hungate, Dean Nelson, Dean Wallace, *Chairman.*
- Student Publications:* Dr. Botsford, Mr. Hochtritt, Mr. Holmquist, Dr. Tieje, *Chairman.*
- Women's Athletics:* Miss Brodnax, Miss Porter, Miss Dustin, *Chairman.*

INSTRUCTIONAL STAFF

- RALPH K. ALLEN.....*English*
A. B. William Jewel College; A. M., University of Washington. Graduate study and research University of Washington, British Museum.
- LOUISE ANDERSON.....*Foods and Nutrition*
B. S., University of Washington. Graduate study University of California, Oregon State College.
- DAVID A. BARBER.....*Psychology, Education*
A. B., A. M., Ph. D., University of Washington.
- GEORGE F. BARR.....*Music*
A. B., Jamestown College; A. M., University of Rochester. Graduate study University of Rochester.
- J. L. BOTSFORD.....*Mathematics, Science*
A. B., University of Washington; Ph. D., California Institute of Technology.

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- NANCY KATE BRODNAX.....*Textiles and Clothing*
 A. B., Universtisy of Oklahoma; A. M., University of Wash-
 ington. Graduate study New York School of Design.
- EDITH B. BROWN.....*German, Handwriting*
 Ph. B., University of Chicago; A. M., Columbia University.
 Graduate study University of California, University of Jena
 (Germany).
- BERNICE BRYAN.....*Laboratory Schools, Primary*
 A. B., A. M., Columbia University.
- *DAVID G. COBB.....*History*
 A. B., A. M., University of Michigan. Graduate study Univer-
 sity of Grenoble (France).
- ROBERT K. DAHLSTROM.....*Mathematics, Physical Sciences*
 B. S., Ph. D., University of Washington. Graduate research
 University of Washington.
- EDWARD L. DALES.....*Industrial Education*
 B. S., University of Wisconsin. Graduate study Stout Insti-
 tute, Oregon State College, University of California.
- FLORA E. DAVIDSON.....*Health*
 B. S., University of Missouri; A. M., Columbia University.
 Graduate study University of Southern California.
- DARYL D. DAYTON.....*Music Theory, Piano*
 Mus. Bac., Oberlin College. Private study in Berlin
 (Germany).
- MARGARET ELLEN DAYTON.....*Voice*
 Mus. Bac., Oberlin College. Private study in Berlin
 (Germany).
- VIRGINIA DICKINSON.....*English, French*
 A. B., University of Wisconsin. Graduate study University of
 Wisconsin, Stanford University, Ideal Exole Francaise.
- CECIL DRYDEN.....*Laboratory Schools, Junior High*
 A. B., University of Washington; A. M., Columbia University.
 Graduate study University of Moscow (Russia).
- ANTOINETTE DUSTIN.....*Physical Education*
 B. P. E., American College of Physical Education; A. B.,
 Eastern Washington College of Education. Graduate Sargent
 School.
- CLARK M. FRASIER.....*Laboratory Schools, Director*
 A. B., A. M., Colorado State College of Education. Graduate
 study George Peabody College for Teachers, Colorado State
 College of Education.
- OTIS W. FREEMAN.....*Geography*
 A. B., Albion College; M. S., University of Michigan;
 Ph. D., Clark University.
- JOHN F. GANGE.....*History, Social Science*
 A. B., A. M., Stanford University. Graduate study Stanford
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* On leave of absence, 1937-8.

- ESTHER GINGRICH.....*Art*
A. B., University of Washington; M. A., Columbia University.
Graduate study Carnegie Institute of Technology.
- EVELYN GOODSSELL.....*Public School Music*
A. B., Carleton College; A. M., Columbia University. Graduate
study American Conservatory, Iowa State Teachers College,
Columbia University.
- JOHN P. GRUBER.....*English*
A. B., University of Indiana. Graduate study University of
Wisconsin, State College of Washington, University of Wash-
ington.
- RAYMOND F. HAWK.....*Education, Psychology*
A. B., Depauw University; A. M., Stanford University.
Graduate study and research State College of Washington.
- MARIE HOLLINGSHEAD.....*Speech*
B. S., M. S., Northwestern University.
- H. E. HOLMQUIST.....*English*
A. B., Stanford University. Graduate study University of
Washington.
- JOSEPH W. HUNGATE.....*Biology*
A. B., State College of Washington; M. S., Cornell University.
Graduate study and research University of Washington,
University of California.
- CEYLON S. KINGSTON.....*History, Social Science*
A. B., St. Lawrence University; A. M., University of Michigan.
Graduate study and research Columbia University, University
of Washington.
- JAMES S. LANE.....*Industrial Education*
B. S., Oregon State College. Graduate study Oregon State
College.
- JESSIE I. LANE.....*Laboratory Schools, Kindergarten*
A. B., A. M., Colorado State College of Education.
- CHARLOTTE LANG.....*Laboratory Schools, Intermediate*
B. S., A. M., Columbia University.
- LEILA LAVIN.....*Laboratory Schools, Spokane Supervisor*
A. B., University of Washington; A. M., Columbia University.
Graduate study University of Washington.
- MARION A. LAWTON.....*Music Theory, Violin*
A. B., Mus. B., State College of Washington. Graduate study
Chicago Music College.
- MARGARET MCGRATH.....*Laboratory Schools, Primary*
A. B., University of Minnesota; A. M., Columbia University.
- EUNICE NELSON.....*Social Science*
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Graduate study University of California, University of London.
- GRACE NEWELL.....*Speech*
A. B., Hastings College; M. S., Northwestern University.

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- EVELYN PETERSON.....*Laboratory Schools, Intermediate*
A. B., A. M., University of Iowa.
- OMER O. PENCE.....*Laboratory Schools, Principal Junior High*
A. B., A. M., University of Washington. Graduate study
University of Washington.
- *MARY W. PORTER.....*Physical Education*
Sargent School of Physical Education. Additional study
Eastern Washington College of Education, University of
Washington.
- W. B. REESE.....*Coach, Physical Education*
A. B., State College of Washington. Graduate study State
College of Washington.
- WALTER W. RISTOW.....*Geography*
A. B., University of Wisconsin; A. M., Oberlin College;
Ph. D., Clark University.
- WILLIAM LLOYD ROWLES.....*Music Theory, Organ*
Mus. Bac., Mus. M., Northwestern University. Graduate study
Northwestern University.
- SAMUEL F. SHINKLE.....*Education, Psychology*
A. B., A. M., State College of Washington. Graduate study
University of Chicago, University of Washington.
- HELEN B. STOLTE.....*Laboratory Schools, Intermediate*
A. B., Nebraska State Teachers College; A. M., University of
Iowa.
- MARY G. SWERER.....*Art*
Graduate, Pratt Institute. Additional study School of Fine
and Applied Arts, University of Chicago, New York University,
Columbia University.
- W. HAROLD TALLYN.....*Physical Sciences*
B. S., Shurtlef College; M. S., University of Illinois.
- RALPH E. TIEJE.....*English*
A. B., A. M., Ph. D., University of Illinois. Graduate research
Columbia University.
- L. V. TYLER.....*Social Science, History*
A. B., A. M., State College of Washington. Graduate study
University of Oregon, University of Colorado.
- GEORGE W. WALLACE.....*Psychology*
A. B., A. M., State College of Washington. Graduate study
Stanford University, University of Washington.
- NAN E. WILEY.....*Art*
B. F. A., M. F. A., University of Oregon.
- OBED J. WILLIAMSON.....*Philosophy of Education*
B. S., University of North Dakota; M. A., Ph. D., Columbia
University.
- ARTHUR C. WOODWARD.....*Physical Education*
B. S., University of Vermont. Graduate study Harvard Uni-
versity, University of Illinois, University of Southern Cali-
fornia.

* Resigned.

GENERAL INFORMATION

ACCREDITATION

The college is accredited by the American Association of Teachers Colleges and by the Northwest Association of Secondary and Higher Schools. Students in good standing who wish to transfer to other recognized institutions of higher learning will receive full credit for all courses satisfactorily completed.

ADMISSION AND REGISTRATION

All communications regarding admission and graduation requirements should be addressed to the Registrar.

Freshmen. The completion of a four-year high school course or its academic equivalent is required for admission to the Freshman class. Freshmen may enter the college at the beginning of any quarter. Credentials should be filed with the Registrar not less than two weeks previously to registration. Official blank forms for high school records are furnished to principals or prospective students on request.

Transfers. Credits will be accepted from all accredited institutions of higher learning. Applicants for advanced standing must furnish complete official transcripts of their records in schools and colleges formerly attended together with catalogs giving detailed information regarding courses completed. Transcripts should be filed with the Registrar not less than two weeks previously to registration.

Preliminary Tests. In order to discover student needs and facilitate adjustment, as well as determine achievement in certain fields, preliminary tests are given all entering Freshmen and transfer students.

Exemptions from the preliminary tests must be granted by the Registrar.

The 1937 fall quarter preliminary tests will begin promptly at 9:00 o'clock, Tuesday morning, September 14. *Freshmen and transfers who are not present at that time will be subject to a late registration fee of \$1.00.*

Non-matriculated Students. Individuals who are twenty-one years of age may be admitted without having completed a high school course, but are ineligible for graduation until preparatory deficiencies have been removed.

General College Students. High school graduates who are not interested in preparing to teach may be admitted to the Freshman class to do general college work. General college students may transfer from one to two years of credit to colleges and universities which offer professional, arts and science, or technical curricula.

Penalty. Students are expected to complete their registration by 5 o'clock on the first day of the quarter. *Regular students who do not complete their registration by the close of the first day of the quarter are subject to a late registration fee of one dollar.* Exception is made when delay in registering is occasioned by officials of the college. Individuals who wish to register after the first day of the quarter should report to the Registrar.

Dates. The registration date for each of the quarters of the year 1937-8 will be found in the calendar in the front of this catalog.

Directions. Students begin registration under the direction of an adviser, continue by signing enrolment sheets for entry into classes, and conclude registration by the payment of fees in the Bursar's Office. Detailed directions for registering on the first day of the quarter are to be found in the time schedule, copies of which may be secured at the Registrar's Office.

Preregistration. During each quarter there is a period of preregistration for the following quarter. Students who are not in residence or who have special problems may make appointments with the Registrar to preregister during the preregistration period. Students transferring from other colleges will find it advantageous to preregister, dates for which will be found in the calendar in the front of this catalog.

Registration Changes. Permission to *add* a course after registration has been completed is given by the Registrar.

Permission to *drop* a course after registration has been completed is given by the Registrar or Dean.

A student who receives permission to drop a course or who withdraws from the college up to and including Monday of the fifth week of a quarter is entitled to the grade "Dropped." After Monday of the fifth week of a quarter a student who receives permission to drop a course or who withdraws is entitled only to such grade as the instructor considers consistent with the student's class rank to date. However, when there are extenuating circumstances approved by the Registrar or Dean, the student is entitled to receive the grade "Dropped."

ATHLETICS

The athletic program of the college includes varsity competition in football, basketball, track, tennis, and golf. The college is a member of the Washington Tri-College Athletic Conference.

In addition to the varsity competition complete schedules are maintained for the "Papooses," or junior varsity, in football and basketball. Every male student who wishes to do so has an opportunity to participate in properly supervised competitive sports.

Woodward Field is laid out with a quarter-mile cinder track, a baseball diamond, and a football field. The college basketball games are played in the gymnasium of the new Laboratory School building.

Men winning the varsity "W" are eligible for membership in the Men's "W" club, an organization which fosters the ideals of sportmanship and loyalty to the college.

BUILDINGS AND EQUIPMENT

The following brief descriptions will convey a general idea of the buildings of the campus and of the purposes for which they are used.

The *Administration Building*, the central structure on the campus both as regards location and activity, rises to three stories of brick and ornamental stone. It contains class rooms, laboratories, the administrative offices of the college, and a large and beautifully decorated auditorium equipped with scenery, electrical apparatus and a 3-manual Kimball pipe organ. The Lyceum Courses of the college each year bring to this auditorium many artists of note both in the musical and in the dramatic worlds.

The physical equipment of the music department is a matter of general interest. Besides the excellent organ it includes 3 small grand pianos, 1 Steinway concert grand, 10 upright pianos, 1 bass viol, 8 violins, 1 viola, 1 violoncello, 4 clarinets, 2 E flat alto horns, 1 E flat tuba, 1 orthophonic Victrola, a library of 500 phonograph records, a large library of orchestral and choral music, large class rooms for music methods and theory, and studios for instruction in piano, violin and voice.

A gymnasium, locker rooms and showers are contained in this building, which also provides an indoor golf driving tee and net, a shuffle board court, and equipment for archery, field hockey, jolly ball, soccer, football, baseball, track, playground ball, basketball, boxing, wrestling, horseshoe, volley ball, and water polo. The athletic library and the indoor swimming pool are valuable adjuncts to this outlay.

On the third floor is the main library, the center of the intellectual life of the campus, which contains a large reading room and over 41,000 volumes, with two special collections of interest: (1) The Northwest Collection—a valuable group of books dealing with the history of the Pacific Northwest; (2) the rare and unusual books, known as the "Q collection"—valuable out-of-print books, first editions, books of unusually fine illustrations, expensive art books, etc.

For purposes of study the division of biology possesses collections of the native plants and animals of the region, which include some fourteen hundred plants, two hundred and fifty reptiles and amphibians, two hundred mammal skins and over a hundred bird skins. These collections are all cataloged and named and are used as study specimens when needed.

The physical science department is equipped with modern apparatus for slide and motion picture projection, a fine library of maps for geographical study and a large and interesting collection of specimens of local rocks and minerals.

The physical equipment in the clothing laboratory of the division of home economics includes sewing machines, ironing boards, cutting tables, triple mirrors, irons, fitting platform, a show case for hanging garments, etc. The foods laboratory contains a dining room for demonstration work, a dining table, a serving table, a buffet, a modern electrified kitchen

with individual electric plates, a refrigerator and an electrical incinerator.

The art division of the college contains a complete collection of prints of great works of art which provides opportunity for study and critical analysis. On the third floor are easels and other equipment for art work.

The new, modern *Laboratory School Building* is done in beautiful architectural design, and equipped to facilitate work along progressive educational lines. The first floor contains the health suite, the gymnasium and auditorium, a teachers' rest room, the offices of the Director of the Laboratory School and the Research Bureau, and suites of rooms for the kindergarten, first, second and third grades. On the second floor are the fourth, fifth and sixth grades, the psychologist's office, the school library, the art and music studios, the food and clothing laboratories and a spacious cafeteria.

The art and music studios are fully equipped for all kinds of creative work, including easels, water colors, materials for calcimine painting, and instruments such as triangles and cymbals for the children's rhythm band. The music studios are equipped with an adequate number of Victrolas and pianos.

The Children's Library comprises approximately 6,000 volumes, 14 periodicals, a boys' and girls' newspaper, the Keystone Visual Set (2 lanterns, 900 lantern slides, 900 stereographs), the Underwood Visual Set (1000 stereographs), 5 reference sets, 3 nature libraries, a large globe, several fine maps, 7 collections of children's stories and classics, and a cabinet of approximately 3,000 mounted pictures. The Children's Library is a member of all four sections of the Junior Literary Guild, and has all Newberry prize books.

One wing of the building is occupied by a gymnasium unit, which is used cooperatively by the College and the Laboratory School. The gymnasium unit includes a standard, up to date playing floor lined for basketball, volleyball, badminton, and indoor baseball, and an office for the varsity athletic coach, locker rooms for the visiting and varsity squads, showers, first aid, laundry, drying, supply and equipment rooms. Folding bleacher seats accommodate 1,150 spectators.

A public address system with loud speaker connections in each room may be used for announcements, radio reception and music appreciation through phonograph records. There

are four shower rooms available to the children at all times. The floors are overlaid with linoleum, inset with many colored pictures, the designs for which were developed in the school's art department.

The dormitories—*Senior Hall, Monroe Hall and Sutton Hall*—are modern and fully equipped homes, the first two for women and the latter for men. Students find the grand pianos, the modern radios, the large lounge rooms for reading, dancing and receptions, the candy kitchens and the laundry rooms conducive to their comfort. All residents of the halls take their meals in the dining room of Monroe Hall.

The *Industrial Education Building* houses the college print shop and the class rooms, the drafting rooms, and the laboratories of the department of industrial education.

The *Old Training School Building* provides college classroom, studio, office, and storage facilities. Music, English, and education classrooms, music studios, and offices for the college publications, the college psychologist, and part-time employment for men students are housed in this building.

CAMPUS

The campus of the college contains about 40 acres of land in the west part of Cheney just three blocks from the Columbia Basin Highway. In about the center of the campus are located the massive Administration Building and Old Training School Building. The president's residence is situated near Senior Hall, a modern dormitory for women in the north-west part of the campus. The west campus is mainly occupied by Monroe Hall, the Industrial Education Building, tennis courts and the athletic fields. Woodward Field affords one of the finest football turfs in the state and contains a quarter-mile track. Sutton Hall, a large dormitory for men, is on the south. The new Laboratory School Building is in the block between Sutton Hall and Woodward Field. The college buildings are situated on a hill overlooking the town of Cheney and the pine forest eastward. The campus, moreover, is pleasingly planted with trees and shrubs.

CAMPUS ACTIVITIES

Through campus organizations students enjoy associations with fellow students and personal contacts with members of

the faculty. Membership in an organization gives an opportunity to develop initiative and leadership. The college sponsors organizations for all interests—professional, athletic, service, scholarship and honorary.

Athletic

Women's "W" Club. The Women's "W" Club includes all women who have earned a letter in Women's Athletics. The purpose of this organization is to sponsor Women's Athletic programs and develop student leadership.

Men's "W" Club. The Men's "W" Club includes all men who have been awarded a letter in a major sport in recognition of their service on the college team.

English and Speech

English Club. The English Club is for the purpose of studying various types of literature and to develop an appreciation of literature.

Masquers. The aim of the Masquers is to foster and promote interest in dramatics, and to produce and manage college plays.

Parnassus. Parnassus is a poetry club organized for the purpose of developing an appreciation of poetry and to promote an interest in creative work.

General

Associated Students. Student government places the responsibility of student life, conduct, habits, development and experience with the entire student body as a group. The students are organized for the purpose of advancing the best interests of the college, and for promoting and managing campus activities.

Women's League. The Women's League comprises in its membership all the women students. It seeks to promote the general welfare of this group and to discuss the problems specifically involving its well-being. The League sponsors scholarship by awarding the Working Girl Scholarship each quarter and a scholarship cup which is awarded each quarter to the group having the highest grade point average. Each

quarter the League provides at least one social event for all the women students on the campus.

Honorary

Key. The Key Society was organized to promote high standards of scholarship. A grade point average of over 2.00 for four quarters is a requisite for election.

Kappa Delta Pi. Kappa Delta Pi is a national honorary education society which promotes professional interest on the campus. Members are selected on the basis of scholarship and promise of success in the teaching profession.

Scarlet Arrow. Scarlet Arrow is an honorary organization for outstanding men on the campus who have shown leadership and have taken an active part in the promotion of college spirit.

Music

Euphonia. The Euphonia Club is a music honorary organized to increase student interest in music and to encourage the presentation of better music programs.

A Cappella Choir. The choir has a membership of twenty-six to twenty-eight mixed voices. Several concert trips throughout the Inland Empire are made each year by this organization.

College Band. The College Band is composed of both men and women students. They represent the college in many events and play at all athletic contests in which the college participates.

Play Hour Orchestra. The Play Hour Orchestra is the dance orchestra which plays for the social dancing which is held at the college each week on Tuesday nights from seven until eight o'clock. Dancing and programs are given on Friday and Saturday nights. All persons playing in the dance orchestra are paid for their services. Try-outs are held at the beginning of each quarter.

Professional

Alpha Sigma. Alpha Sigma is an honorary Art Club, organized to foster an interest in art, and to give an appreciation of art to other students in the college.

Association for Childhood Education. The American Childhood Education Association, a unit of the National Education Association, was organized for the purpose of aiding primary teachers.

Classroom Teacher Council. The Classroom Teacher Council, a unit of the National Education Association, was organized to afford occasion for discussion of questions pertaining to teaching in the intermediate grades.

Deutscher Verein. The Deutscher Verein is for furthering the interest in German, and is organized for both social and educational purposes for the German students.

Ellen H. Richards. The Ellen H. Richards Club, which is affiliated with the National Organization, is for furthering the purpose and spirit of Home Economics on the campus.

Forum Club. The Forum Club is organized to discuss contemporary events, problems and issues in the fields of economics, sociology and politics. Members are selected on the basis of interest in such discussion and evidenced by a try-out speech.

Geography Club. The Geography Club is organized for the purpose of sponsoring visiting speakers and lecturers.

Le Cercle Francais. Le Cercle Francais is organized to bring together all students interested in French.

Junior High School Forum. The Junior High School Forum is to further interest in educational problems and to acquaint students with the problems in the Junior High School field.

Press Club. The Press Club aims to further the work of the college weekly newspaper. It is open to students who are, or have been, actively engaged in journalism work.

Honorary Service

Intercollegiate Knights. Intercollegiate Knights is a national undergraduate men's service organization which emphasizes the promotion of the spirit and traditions of the college.

Tawanka. Tawanka is a women's honorary service organization, the purposes of which are to extend hospitality to

campus visitors, to foster college spirit, to promote interest in activities in which the student body participates, and to maintain campus traditions.

CERTIFICATION

In December, 1936, the State Board of Education adopted new certification regulations which will apply to individuals who receive their first teaching certificates after September 1, 1937, or who have not received life certificates by September 1, 1938.

Under the new plan the five-year certificate previously issued will be replaced by certificates valid for three years. Renewable six-year certificates will replace life certificates. The issuance of life certificates will be discontinued September 1, 1938.

After September 1, 1937, the first certificate for elementary teaching which a person may receive will be valid for three years and is to be known as the "Three-year Elementary Certificate." Completion of at least a three-year curriculum is to be required of candidates for the three-year elementary certificate, which will be once renewable by the completion of 15 quarter hours of credit.

The second certificate which the elementary teacher may receive after September 1, 1937, will be valid for six years and will be known as the "Six-year Standard Elementary Certificate." Completion of a four-year curriculum and two years of successful teaching are to be required of candidates for the standard certificate. The teacher may renew a standard certificate by doing two years successful teaching and earning 9 quarter hours of credit during the six years that the certificate is in force. The standard certificate is to be renewable as many times as renewal requirements are met.

Both the three-year and the six-year elementary certificates will be valid in accredited junior high schools as well as in elementary schools.

If an individual who has allowed his standard certificate to lapse becomes a candidate for re-certification, he will be required to earn additional credits beyond renewal requirements. The candidate who has taught within five years of the date of application for re-certification will have to earn

six quarter hour credits in addition to meeting renewal requirements. Candidates who have not taught for five or more years prior to applying for re-certification will be required to earn 15 quarter hour credits beyond the number required for renewal.

For further information see "Life Diplomas."

CHILDREN'S THEATRE

As an adjunct to the courses in Creative Dramatics, the college maintains a Children's Theatre, which gives at least two performances a year. The aim is to stage not only plays for children, but plays *by* children. Creative Dramatic work is conducted under supervision of the college instructors both in the Laboratory School and in the Junior High School. From this work are developed the public performances of the Children's Theatre, a distinctive organization of its kind in the Northwest.

CLASSIFICATION

Students having fewer than forty-two quarter credits are classified as freshmen, those having between forty-two and eighty-nine as sophomores, those having between ninety and one hundred thirty-seven as juniors, and those having one hundred thirty-eight or more as seniors.

DEGREE

The Washington State Legislature in 1933 empowered the college to grant the degree of *Bachelor of Arts in Education*. The bill was signed by Governor Clarence D. Martin and became effective at midnight, June 7, 1933.

DEPARTMENTAL ORGANIZATION

The different lines of instruction offered by the institution are organized in eight departments as follows:

Applied Sciences and Arts	{ Art Biology Home Economics Industrial Education
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Education	{ Education Psychology
History and Social Science	{ History Library Science Social Science
Laboratory Schools	
Language and Literature	{ English Modern Languages Speech
Music	
Physical and Health Education	{ P. E. for Men P. E. for Women
Science and Mathematics	{ Geography Mathematics Physical Sciences

EXPENSES

Board and Room. Board and room at the halls of residence is \$6.50 a week. There is a charge of 50 cents a quarter to cover the cost of magazine and newspaper subscriptions. No reduction is made for week-end absences. Four-fifths of the board cost is deducted for vacations or absences on account of illness of more than three days.

Board and room can also be secured at reasonable rates in private homes off-campus. For information address the Dean of Women, or the Dean of Men.

Student Activities Fee. Each student pays an *activities fee* of \$6.00 a quarter, which is distributed to different funds: athletics, lectures and entertainments, social life, and *The Journal*.

Library Fee. Each regularly enrolled student pays a library fee of \$2.00 a quarter. The funds so collected go for the upkeep of the library.

Health Fee. Each regularly enrolled student pays a *health fee* of \$2.00 a quarter which goes toward meeting expenses connected with the health of the students.

Withdrawal. Students withdrawing from the college during the first two weeks of a quarter are entitled to a refund of \$8.00 on the above fees, but thereafter no refund is given. Students who have received this refund, but who later in the quarter desire reinstatement, must pay an enrolment fee of \$9.00.

Students wishing to withdraw must secure clearance slips at the Bursar's Office.

Books. Books, note-books, and writing supplies usually cost from \$5.00 to \$10.00 a quarter.

Music Fees. Payment of a fee of \$15.00 entitles the student to a series of weekly, half-hour, private lessons in applied music for the duration of one quarter. Payment of a \$30.00 fee entitles the student to a series of twice-weekly, half-hour, private lessons for the duration of one quarter.

Pianos may be rented at \$3.00 a quarter for one hour of practice daily. For two hours daily the charge is \$5.00 a quarter.

Violins for practice may be rented at \$1.40 a quarter.

For practice on the auditorium organ the charge is twenty cents an hour.

Charges for the rental of musical instruments are payable the *second week* of each quarter.

Laboratory Fees. Laboratory fees are charged in certain courses in Art, Biology, Chemistry, Education, Home Economics, Industrial Education, Geography, Typing, Physics, and Speech. In most cases these fees do not exceed one dollar each. In some courses the student must also pay for the material used.

Laboratory fees are payable the *second week* of each quarter.

Kinnikinick Fee. The constitution of the Associated Students provides that each student receiving a diploma at the close of the fall and winter quarters, and each student enrolling at the opening of the spring quarter, must pay \$2.50 for the *Kinnikinick*, the college annual. No student, however, is required to pay this fee twice in the same year.

Graduation Fees. Students who are successful candidates for the degree of *Bachelor of Arts in Education* are subject to a

fee of \$5.50. This amount includes the fee for the diploma of graduation which is prerequisite for the degree and the fee of \$1.00 which is remitted to the County Superintendent of the county in which the diploma is first registered. The diploma constitutes a certificate to teach in the elementary and junior high school grades of the State of Washington for a period of three years.

Students who are successful candidates for graduation from the three-year curriculum or from the college graduate curriculum are subject to a fee of \$3.50. This amount includes the fee for the diploma of graduation from the three-year curriculum or the college graduate curriculum and the fee of \$1.00 which is remitted to the County Superintendent of the county in which the diploma is first registered. The diploma constitutes a certificate to teach in the elementary and junior high schools of the State of Washington for five years.

Earning Part of Expenses. Those students who need to earn part of their expenses will find a limited number of opportunities at the college for so doing. Regular monthly employment at the college is given only to students who live on the campus. There are also opportunities for work in the town of Cheney. Students expecting to earn part of their expenses should plan to carry less than the standard schedule of class work.

EXTENSION

The Extension Division offers work which is helpful to those who wish to increase their training without giving up their positions, to those who wish to specialize, and to those who wish to earn college credits.

Twelve credits earned in extension and/or correspondence courses may be counted toward the work of the senior or of the junior year. In exceptional cases twelve credits from such courses may be counted toward the work of the sophomore year. The privilege of counting extension or correspondence credits toward the work of either the senior, the junior, or the sophomore year is not cumulative, but such work must be taken during the year toward which the credits are to apply.

A total of 24 credits taken in the extension division may be counted toward the degree of *Bachelor of Arts in Education*.

Students with less than sophomore standing are not permitted to enrol in correspondence courses.

Correspondence courses may not be completed in less than one quarter, and should be finished in not more than one year from the date of enrolment. Neither correspondence nor extension courses may be carried while a student is in residence. Not more than nine credits may be earned in extension and correspondence courses in any one quarter.

A bulletin giving complete information concerning correspondence courses will be mailed upon request. All inquiries should be addressed to the Extension Division, and checks or money orders are made payable to the Bursar.

GUIDANCE AND WELFARE

Student guidance is cooperatively provided by the officials and instructors of the college in connection with the performance of their duties as dean, registrar, college nurse, research bureau director, placement bureau director, major adviser, residence hall director, or instructor. Every effort is made to aid students with problems concerning the selection of schedules, academic progress and regulations, finances and part-time employment, health, social adjustment, living conditions, placement, and any other matters which pertain to personal welfare.

The college seeks to help each student toward the selection of courses and activities which will meet his individual needs and be most likely to contribute toward success in his life work and toward the development of a well rounded personality. Students are encouraged to arrange conferences regarding matters of personal and group interest.

The Dean of Men and the Dean of Women have general responsibility for student welfare and welcome correspondence and conferences with both parents and students. Students look to the Registrar and to their major advisers for guidance in matters relating to schedule selection and to the operation of the curriculum, but are free to consult the deans at any time. Health problems are the particular concern of the College Nurse.

HISTORY

Established by legislative act, the Eastern Washington College of Education was originally a normal school. The 1937 law which provided the present name completed many years of transition to full college status.

The Washington State Normal School at Cheney, the first of three such institutions created by the Washington State Legislature in the early days of statehood, opened October 13, 1890. For a number of years secondary education was not adequately developed in the state and a considerable part of the enrolment consisted of preparatory students.

The 1917 Legislature authorized the institution to set up three-year and four-year curricula and discontinued preparatory courses. A steady growth in upper division enrolment followed and in 1933 the Legislature empowered the college to grant the degree of Bachelor of Arts in Education.

HONOR STUDENTS

Students whose grade point average for a given quarter is 2.25 or better are designated Honor Students for that quarter.

Students who are graduated with a grade point average of 2.25 or better for all courses taken in residence are designated Honor Graduates.

Students who have been in residence at least four quarters and whose grade point average is 2.00 or better are eligible for membership in the honor organization known as the Key Society.

Grade point averages are computed on the basis of 3 grade points for each quarter hour credit of A; 2 for each quarter hour credit of B; 1 for each quarter hour credit of C; 0 for each quarter hour credit of D; and -1 (minus one) for each quarter hour credit of Failed. The grade point average is the quotient of total grade points divided by the total quarter hour credits in which the grades A, B, C, D, and Failed are received.

LABORATORY SCHOOLS

The purpose of the Laboratory Schools is to help the student teacher to become a thoughtful and alert student of

education as well as to make him immediately proficient in teaching.

Student teachers have the opportunity of observing actual teaching by expert teachers, of doing student teaching under the supervision of a well-trained staff, and of seeing the administrative details of school work in operation. Student teaching is done in the elementary school on the campus, in the junior high school two blocks from the campus, and in elementary and junior high schools in the city of Spokane.

LIBRARY

The college library consists of more than 41,000 volumes and is in four collections: The Main Library, the Northwest History Collection, the Children's Library, and the Industrial Education Library. The Northwest History Collection is housed with the main library. The Industrial Education Collection is kept in the Industrial Education building. The Children's Library is in the Laboratory School building, and is under the supervision of a children's librarian.

Although the main collection is primarily a reference library, most of the books are available for circulation. Library hours are 8 a. m. to 5 p. m.; 7 to 9:45 p. m.; Saturdays, 9 to 12 a. m. only.

LIFE DIPLOMAS

The college will continue to issue life diplomas until September 1, 1938. The requirements are 24 months of successful teaching and 159 quarter hour credits. The fee for a life diploma is \$2.00. For further information see "Certification."

LOAN FUND

The Students' Loan Fund has come from many sources—student donations, receipts from entertainments, gifts from public spirited citizens, and interest accumulations.

While it is not possible completely to finance a student through any large part of his course, it serves a very useful purpose in bridging over many difficulties of a limited or temporary character. Students in the junior and senior years may borrow up to \$50.00 and sophomore students may borrow \$25.00. Freshmen are not eligible to borrow from the fund.

The signature of a responsible party is necessary in addition to that of the borrower. The length of time the loan may run is twelve months and the interest rate is 6%.

LOCATION

Cheney is sixteen miles distant from Spokane by rail and nineteen by the Columbia Basin highway. Transportation is furnished by the Chicago, Milwaukee and St. Paul; the Northern Pacific; the Union Pacific; and two motor bus lines. Students planning to come to Cheney over the Spokane, Portland and Seattle Railroad should change to the Northern Pacific at Pasco, or continue into Spokane, since there is no Cheney station on the S. P. and S.

MUSIC

In addition to the well-rounded curriculum in music methods, theory and applied music leading to the three or four-year major in music, the Concert Orchestra, A Cappella Choir, Chorus, College Band and other vocal and instrumental ensembles provide opportunities for rich experience in operettas, oratorios and various concert programs during the year. The A Cappella Choir makes numerous short concert trips to Spokane and towns in the Inland Empire each year.

The music department sponsors the Eastern Washington Music Meet every spring in which more than eight hundred high school students participate. This was inaugurated in April, 1932.

Euphonia, a student music society, does much to stimulate worthwhile musical activities on the campus. It offers a scholarship each quarter to a deserving student for private lessons in Piano, Voice, or Violin.

PHYSICAL EDUCATION

It is the aim of this department to give the student an understanding of the requisites of good health and sanitation in the adult, the child, and the community, and to lay a foundation which will enable the teacher to be of real health service in the school and the homes of the community.

Physical education, physiology, general and personal hygiene, sanitation, and the study and application of corrective exercises are given proper emphasis.

All students are required to take a health examination each year. Two hours a week of physical education activity courses are required of all students for three years.

PLACEMENT BUREAU

All recommendations to teaching positions are made through the Placement Bureau. Each student is required during the last quarter before graduation to leave with the Placement Bureau a photograph and full set of credentials covering his academic preparation and teaching experience. Complete files are kept for each graduate, together with a card index of his work and preparation. School boards, principals, and superintendents who are in need of teachers should communicate with the Director of the Placement Bureau. Graduates from other teacher training institutions may enrol with the Placement Bureau when they have completed two quarters' work at Cheney. Checks or money orders for this service are made payable to the Bursar.

QUARTER SYSTEM

The college is operated on the four-quarter system, each quarter having approximately twelve working weeks. The quarter system permits students to do a full quarter of work in the summer. Students attending consecutive quarters—fall, winter, spring, and summer—can complete the four-year curriculum in three calendar years and the three-year curriculum in two and one-fourth calendar years.

RESEARCH BUREAU

The Bureau of Research is an agency for the study of administrative, curricular, personnel and general educational problems of the college. Researches in the fields of elementary and junior high education are continually in progress.

The bureau cooperates with committees from other institutions, state educational agencies, and other research agencies engaged in surveys and experimental work.

Personnel records of all persons enrolling in the college are kept by this office as a part of the guidance program.

Opportunity for actual experience in research procedures is offered to properly qualified students.

SCHOLARSHIPS AND PRIZES

The Clarence D. Martin Scholarship. Clarence D. Martin offers an annual scholarship of \$150 to a man in his junior year who most nearly fulfills the following conditions: scholarship, character, and general achievement. The committee in charge consists of Mr. Kingston and Dean Wallace. Established 1923. Holder for 1937-8: William Elsner.

The Horace Mann Scholarship. The college offers an annual scholarship of \$150.00 to a woman in her junior year who most nearly fulfills the following conditions: scholarship, personality, and general achievement. The committee on award is Mr. Kingston, Dean Nelson, and Miss Lavin. Established 1937.

The Ralph Earle Tiejé, Junior, Memorial Scholarship. Dr. and Mrs. Ralph E. Tiejé offer an annual scholarship of \$100.00 to an English or Speech major in his senior year, upon recommendation of the Department of Language and Literature. Established 1934. The holder in 1937-8: Dorothy Zawadke.

The Senior Scholarship for Men. An annual scholarship of \$100.00 is offered, open to men in the junior year on the following conditions: scholarship, leadership, personality, and general achievement. The committee in charge consists of Mr. Kingston and Dean Wallace. Established 1937.

The Senior Scholarship for Women. An annual scholarship of \$100.00 open to women in the junior year is offered on the following conditions: scholarship, personality, and general ability. The committee of award is Mr. Kingston, Dean Nelson, and Miss Lavin.

The Tawanka Scholarship. To a deserving woman in her senior year the Tawankas annually award a scholarship of \$50.00 on the conditions of outstanding scholarship and personality together with leadership in student activities. The committee in charge consists of Dean Nelson, Mrs. Anderson, Miss Dustin, Miss Wilson, and Dean Wallace. Established 1932. Holder in 1937-8: Alice Oatman.

The Euphonia Scholarship. Three awards annually are made by the Euphonia club, each providing a quarter's instruction in one of the following: voice, piano, organ, or a stringed

instrument. The committee, consisting of representatives from the music department, the deans' offices, and the Euphonia organization, bases its selection on worthiness and promise. Established in 1932. Holders in 1936-7: Frances Clark, Piano (fall); LaVerne Houghton, Voice (winter); Robert Cavanaugh; Betty Foster.

The Women's League Scholarship. The scholarship of \$10.00 is awarded quarterly to the woman student who makes the highest scholastic average while earning part of her expenses through part-time employment. Established 1925. Holders in 1936-7: Carlita Dreblow (spring); Frances Clark (summer); Alice Oatman (fall); Dorothy Zawadke (winter).

The Martin Prize in Oratory. The Martin oratorical contest is held annually under the auspices of the Department of Language and Literature. Three prizes of \$50.00, \$30.00, and \$20.00 are offered by Mr. Clarence D. Martin of Cheney, an alumnus and patron of the college. Students expecting to enter the contest should enroll in Speech 201. Established 1925. Winners in 1937: Arthur Seeger (first prize); Paul Buhrmester (second); Raymond Forrey (third).

The Scarlet Arrow All-School Award. On the basis of character, achievement, leadership, and self-support, a plaque is awarded to a student in his second or subsequent year by the Scarlet Arrow. The committee in charge consists of Miss Persons, Dean Nelson, Dean Wallace, Miss Dustin, and Mr. Woodward. Established 1933. Awarded in 1936 to Mildred Conley.

The Scarlet Arrow Athletic Award. This award is given twice each year, first to the outstanding football man, and secondly to the outstanding basketball man. The basis of selection is sportsmanship, cooperation, inspiration, and leadership. The respective varsity teams choose the outstanding player of the season. Established 1933. Awarded fall 1936 to Douglas Green and winter 1937 to Lawrence Kerns.

SPECIAL STUDENTS

Special students are those enrolled in not more than two courses exclusive of Physical Education Activities (P. E. 4 or P. E. 13), or for more than six credits exclusive of Physical

Education Activities (P. E. 4 or P. E. 13). The enrolment fee for special students is \$2.00.

STUDENT LIVING

The college regards comfortable, healthful, and congenial living conditions for students as very important. Living conditions of the right kind not only aid students to do the best work in their studies but also through the experience of group life contribute to the building of character and personality. Hence, careful consideration is given to proper living conditions for students through provision of institutional halls of residence on the campus and through supervision of living conditions of students outside the dormitories.

Dormitories. Halls of residence are maintained for both men and women students of the college. The men live at Sutton Hall and the women at Senior and Monroe Halls. Students who room at either of the three halls dine at Monroe Hall. Students are not permitted to board off-campus while living in a dormitory.

The object of the halls is to provide comfortable, democratic living conditions conducive alike to successful academic achievement and to complete participation in the wholesome activities of campus life. Living conditions within the halls are made as nearly like those of a good modern home as possible. In addition, the method of government, the distribution of responsibility, and the opportunities for sharing in all the privileges and activities of a congenial social group are such as to promote social coherence and develop college spirit.

Beds, mattresses, pillows, sheets, pillow cases, chairs, study tables, and one double blanket for each bed are furnished. Students provide their own towels and such extra bedding as they may desire. Occupants care for their own rooms. Bath, trunk room space, and laundry facilities are provided.

Dormitory Rates. The cost of board and room at the residence halls is \$6.50 a week. There is an extra charge of 50 cents each quarter to cover the cost of magazine and newspaper subscriptions. No reduction is made for week-end ab-

sences. Four-fifths of the board is deducted for vacations or absences on account of illness of more than three days.

Guest rates are as follows: breakfast or luncheon, 25 cents; dinner, except Sunday, 40 cents; Sunday dinner, 50 cents.

Payments for board and room are made three times each quarter on call of the Bursar's Office. The first payment covers the first four weeks, plus the fifty-cent charge for subscriptions, while the second payment covers the second four weeks. The third payment covers the remainder of the quarter less deductions for vacations or absences on account of illness, and plus guest charges for the quarter. When a student leaves at the end of a quarter, the \$5.00 deposit is deducted from his third payment.

Dormitory Reservations. Rooms are reserved in the order of receipt of deposits. A deposit of \$5.00 is required of each student. If the reservation is cancelled not later than five days previously to the opening of the quarter, \$3.00 of the deposit will be returned; otherwise, cancellation causes forfeiture of the entire sum. Reservations are not held later than 8 a. m. on the second day of the quarter, unless special arrangement has been made in advance. The \$5.00 deposit will be retained by the college as a guarantee for the protection of property used by students, and will be credited on the final payment of board, less any deduction for breakage or unusual damage to furnishings.

The first meal in the 1937 fall quarter will be breakfast on Tuesday, September 14, but the rooms in all dormitories will be ready for occupancy Monday evening, September 13.

Checks for room deposit should be made payable to the Bursar. Assignment of rooms will not be made until the Friday before the quarter opens. Room reservations are not transferable.

Separate deposits and reservations are required for the summer quarter.

Dormitory Withdrawals. Permission to move off-campus during a quarter is granted only in case of financial emergency, and must be approved by the Dean and by the director in charge of the dormitory. Then two weeks' notice must be given and two dollars of the room deposit forfeited.

If illness causes the student to leave the college during a quarter, two dollars of the room deposit is forfeited.

Off-Campus Living. Board and room in private homes can be secured at reasonable rates. The list of approved rooming houses may be had, together with that of housekeeping rooms, by addressing the Dean of Women. Men and women are not permitted to room in the same house.

SUMMER QUARTER

The fourth quarter of the college year is known as the Summer Quarter. It is divided into two terms of equal length. Students may enroll for either term separately or for the entire quarter.

All types of work offered in the other quarters of the year are given in the summer. Since emphasis is placed upon the junior and senior years teachers are provided excellent opportunities to progress professionally.

For complete information write the Registrar.

TRANSCRIPTS

A student who wishes to send transcripts of his record to other institutions will be furnished the first copy without charge. A fee of \$1.00 will be charged for each transcript thereafter.

CURRICULA

Introduction. Four-year, graduate, and general college curricula are offered by the college. The four-year and graduate curricula lead both to the degree of *Bachelor of Arts in Education* and to a teaching credential. The general college curriculum consists of courses which may be profitably chosen from the academic courses in the teacher education curricula by those not interested in teaching.

CURRICULAR REGULATIONS

Credits. Credits are reckoned in terms of recitation periods. The net length of each recitation period is fifty minutes. One credit requires one class period a week for one quarter. Forty-eight credits exclusive of Physical Education Activities (P. E. 4 or P. E. 13), constitute one year's work. In laboratory work two fifty-minute periods are required for one credit hour.

Standard Load. The standard student load is from fifteen to seventeen credit hours a week exclusive of Physical Education Activities (P. E. 4 or P. E. 13). Students who are in the first quarter of their Freshman year may not carry more than sixteen credits hours a week exclusive of Physical Education Activities.

Overload. Students who wish to carry more than a standard load may, provided they have a grade point average of 2.00 for all quarters to date or a grade point average of 2.00 during the three previous quarters, petition the Registrar for permission to carry an overload. The maximum load may not exceed twenty credit hours a week exclusive of P. E. Activities.

Grading Scale. The grading scale is A (superior); B (excellent); C (average); D (below average); Failed; Incomplete. The grade "Incomplete" is given only when the quality of the work is satisfactory but, for reasons acceptable to the instructor, the course has not been completed.

Grade Point Average. Students must have a grade point average of 1.00 or better in all credits earned in residence

at Cheney in order to do Student Teaching or to receive a degree or diploma from any curriculum offered by the college. Extension and correspondence credits are not counted in this reckoning.

The grade point average is the quotient of total grade points divided by the total quarter hour credits in which the grades A, B, C, D, and Failed are received. Grade point averages are computed on the basis of 3 grade points for each quarter hour credit of A; 2 for each quarter hour credit of B; 1 for each quarter hour credit of C; 0 for each quarter hour credit of D; and -1 (minus one) for each quarter hour credit of Failed. The grade of "Incomplete" is disregarded in the computation of points.

Residence. No student may graduate from or receive any diploma or degree from the college with less than a year (3 quarters) of attendance and 48 credits earned in residence. The last quarter or term of the student's work preceding graduation must be done at Cheney.

Extension and correspondence courses must be completed outside of the residence quarters and may not be counted as being done in residence.

Graduation Candidacy. Candidates for graduation from any curriculum are required to file with the Registrar, not later than three weeks after the opening of the third quarter preceding graduation, a copy of their proposed schedules of courses for the three quarters preceding graduation.

FOUR-YEAR CURRICULUM

The student who completes the four-year curriculum is granted the degree of Bachelor of Arts in Education and a certificate which entitles him to teach in the elementary and junior high schools of the state of Washington for three years.

The four-year curriculum includes requirements of several types: (1) general academic, (2) professional, (3) academic major, (4) minor, (5) second minor, and (6) free elective.

(1) The general academic requirements constitute about three-fourths of the work of the freshman and sophomore years and are similar to those of the first two years at other

Pacific Coast colleges and universities. The required general academic courses include a balanced emphasis in applied science, English, humanities, natural science, philosophy and psychology, and social science. They provide the student with a broad foundation of general knowledge and insights upon which to build a sound professional education.

(2) The required professional courses give the prospective teacher the fundamental concepts and basic skills essential for effective teaching in the elementary and junior high schools. Emphasis is placed upon laboratory experience in the classroom.

(3, 4, 5) *Majors* and *minors* are concentrated programs of related studies in fields of instruction offered by the college. The major is selected from academic fields only, but the minors may be either academic or professional in character.

(6) The free electives enable the student to explore fields of interest which are not included among the courses taken to satisfy academic and professional requirements. Free electives also make possible additional work along lines previously begun by the student.

Students found deficient in arithmetic, English, and handwriting are required to remove the deficiency by passing sub-freshman, non-credit courses in these subjects. The deficiency must be removed before the student may enrol for Student Teaching.

GENERAL ACADEMIC REQUIREMENTS

Applied Science

H. Ec. 1	Introduction to Home Economics <i>or</i>	
Ind. Ed. 1	Introduction to Industrial Ed.—Freshmen.	2 credits
P. E. 1	Health Fundamentals—Freshmen.....	3 credits
P. E. 4 or 13	P. E. Activities—Freshmen, Sophomores, Juniors	4½ credits

Appreciation

Art 1	Introduction to Art—Freshmen.....	4 credits
Mus. 1	Music Fundamentals—Freshmen.....	4 credits
Sp. 1	Fundamentals of Speech—Sophomores....	4 credits

English

English 1	Composition—Freshmen	4 credits
English 2	Composition—Freshmen	4 credits
English 3	Reading of Literature, <i>or</i>	
English 4	Cultural Backgrounds—Freshmen.....	4 credits

Natural Science

Geog. 1	Elements of Geography—Freshmen.....	5 credits	
Biol. 2	Introduction to Biology—Freshmen.....	4 credits	
Natural Science Option—One of the following:		4 credits	
Biol. 51	Zoology	Math. 3	Solid Geometry
Biol. 61	Botany	Math. 4	Advanced Algebra
Biol. 116	Entomology	Math. 54	College Algebra
Biol. 120	Bacteriology	Phys. 61	General Physics
Chem. 51	General Chemistry		
Phy. Sci. 3	Survey of Physical Sciences—Freshmen..	4 credits	

Note: Either of the following series courses may be substituted for Biol. 2, Natural Science Option, and Phys. Sci. 3:

Biol. 51, 52, 53	Zoology	12 credits
Biol. 61, 62, 63	Botany	12 credits
Chem. 51, 52, 53	General Chemistry.....	15 credits
Phys. 61, 62, 63	General Physics.....	15 credits

Orientation

Campus Ethics—Freshmen.....		0 credits
Library Sci. 1	Library Techniques—Freshmen.....	0 credits

Philosophy and Psychology

Philosophy Option—one of the following:		
Phil. 51	Introduction to Philosophy <i>or</i>	
Phil. 53	Introduction to Ethics—Sophomores..	4 credits
Psych. 1	General Psychology—Freshmen	5 credits

Social Science

Hist. 4	U. S. History—Sophomores.....	5 credits
(Competent students may substitute another history or social science course)		

Social Science Option—two of the following:		
Soc. Sci. 61	General Sociology	
Soc. Sci. 62	Outlines of Economics	
Soc. Sci. 67	Introduction to Political Science— Sophomores	10 credits
Total		74½ credits

Professional Requirements

Education

Ed. 2	Introduction to Education—Freshmen.....	3 credits
Choice of one of the following:		
Ed. 124	Education Sociology	} Juniors .. 5 credits
Ed. 134	Philosophy of Education	

Psychology

Psych. 66	Educational Psychology—Sophomores..	5 credits
Psych. 105	Psychology of Childhood and Adolescence—Seniors	4 credits

Laboratory Schools

Choice of 6 credits from one of the following groups:

Laboratory Observation

L. S. 50, 51, 52, 53	} Sophomores.....	6 credits
L. S. 53, 54, 55, 56		
L. S. 60, 61		

Choice of:

Student Teaching

L. S. 104 Kindergarten—Primary	} Juniors....	10 credits
L. S. 105 Intermediate		
L. S. 106 Junior High		

Total 33 credits

Major and Minor Requirements

During the Freshman year all students should consider the selection of a major and during the spring quarter consult with the Major Adviser of the field chosen.

A major of approximately 36 credits, a first minor of approximately 20 credits, and a second minor of approximately 12 credits are required in the four-year curriculum.

Students who wish to major in Art, Home Economics, Industrial Education, Music, or Speech should consult Major Advisers before enrolling for their first quarter.

Majors and minors may be chosen from the following fields:

- Art
- Biology
- Combined English-Speech
- Education Psychology (*minors only*)
- English
- General Science
- Geography
- History
- Home Economics
- Industrial Education
- Intermediate Education (*second minor only*)
- Junior High Education (*second minor only*)
- Kindergarten-Primary Education (*minors only*)
- Library Science (*second minor only*)
- Mathematics
- Modern Languages (*minors only*)

- Music
- Physical Education for Men
- Physical Education for Women
- Physical Science
- Social Science
- Speech

Summary of Requirements in Four-Year Curriculum:

General academic	74½ credits
Professional	33 credits
Major (approximately)	36 credits
First minor (approximately).....	20 credits
Second minor (approximately).....	12 credits
Free electives (approximately).....	21 credits
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Total	196½ credits

The advised sequence of courses for the four-year curriculum is as follows:

FRESHMAN YEAR

Art 1	Introduction to Art	4 credits
Biol. 2	Introduction to Biology	4 credits
	(should be taken fall or winter quarters)	
	Campus Ethics	0 credits
	(must be taken fall quarter)	
Ed. 2	Introduction to Education	3 credits
Eng. 1	Composition	4 credits
	(must be taken first quarter of residence)	
Eng. 2	Composition	4 credits
	(must be taken the second quarter of residence)	
Eng. 3	Reading of Literature, or	
Eng. 4	Cultural Backgrounds	4 credits
	(students majoring or minoring in English or Speech must take Eng. 3 in the third quarter of residence. Students not majoring or minoring in English or Speech must take Eng. 4 before the end of the Sophomore year.)	
Electives	Major and Free Electives	2 credits
	(Freshmen should consider the selection of a major and during the spring quarter consult a major adviser. Students desiring to major in Art, Home Economics, Industrial Education, Music, or Speech, should consult the major adviser before enrolling for their first quarter.)	

Geog. 1	Elements of Geography	5 credits
H. Ec. 1	Introduction to Home Economics, or	
Ind. Ed. 1	Introduction to Industrial Education	2 credits
	(women preparing to teach in the primary grades take Ind. Ed. 1. Women preparing to teach in the intermediate or junior high grades may take Home Ec. 1, or Ind. Ed. 1. Men take Ind. Ed. 1.)	
Lib. Sci. 1	Library Techniques	0 credits
	(should be taken fall or winter quarter)	
Music 1	Music Fundamentals	4 credits
P. E. 1	Health Fundamentals	3 credits
P. E. 4	P. E. Activities for Women, or	
P. E. 13	P. E. Activities for Men	1½ credits
Phys. Sci. 3	Survey of the Physical Sciences	4 credits
Psych. 1	General Psychology	5 credits
	Total.....	49½ credits

SOPHOMORE YEAR

Electives	Major, Minor, and Free Electives	10 credits
	(before enrolling in their Sophomore year students should select a major and consult the major adviser. A substantial part of the electives in this year should be in the major field. Students should begin the minor before the close of the Sophomore year.)	
Hist. 4	United States History	5 credits
	(competent students may substitute another history or social science course.)	
Natural Science Option —one of the following.....		4 credits
Biol. 51	Zoology	Math. 3 Solid Geometry
Biol. 61	Botany	Math. 4 Adv. Algebra
Biol. 116	Entomology	Math. 54 College Algebra
Biol. 120	Bacteriology	Phys. 61 General Physics
Chem. 51	General Chem.	
Philosophy Option —one of the following.....		4 credits
Phil. 51	Introduction to Philosophy	
Phil. 53	Introduction to Ethics	
P. E. 4	P. E. Activities for Women, or	
P. E. 13	P. E. Activities for Men	1½ Credits
Psych. 66	Educational Psychology	5 credits
	(must be taken before L. S. 50-61 Laboratory Observation.)	

Social Science Option—two of the following:

- 61 General Sociology
- 62 Outlines of Economics
- 67 Int. to Political Science..... 10 credits

Speech 1 Fundamentals of Speech..... 4 credits
 (majors in Speech should take this course in the Freshman year.)

L. S. Laboratory Observation—choice of 6 credits from one of the following groups..... 6 credits

- L. S. 50, 51, 52, and 53, **or**
- L. S. 53, 54, 55, and 56, **or**
- L. S. 60, 61

Total.....49½ credits

JUNIOR YEAR

Ed. 124 Educational Sociology, or

Ed. 134 Philosophy of Education..... 5 credits

Electives Major, Minor, and Free Electives..... 33 credits

P. E. 4 P. E. Activities for Women, or

P. E. 13 P. E. Activities for Men.....1½ credits

Laboratory Schools—Choice of:..... 10 credits

- L. S. 104 Kindergarten—Primary Student Teaching
- L. S. 105 Intermediate Student Teaching
- L. S. 106 Junior High Student Teaching

Total.....49½ credits

SENIOR YEAR

Electives Major, Minor, and Free Electives..... 44 credits

Psych. 105 Psychology of Childhood and Adolescence.. 4 credits

Total..... 48 credits

Junior Year Certification. While the four-year curriculum of the college is organized as an integrated unit, students may be certified to teach at the close of the junior year by completing the following requirements: (a) All the general academic courses required in the four-year curriculum; (b) All the professional courses required in the four-year curriculum except Psych. 105; (c) 20 credits chosen from courses required for the completion of one of the majors in the four-year curriculum; (d) 12 credits chosen from courses required for the completion of one of the first minors in the four-year curriculum or the completion of one of the second minors; (e) Sufficient free electives to constitute a total of 148½ credits.

GRADUATE CURRICULUM

The graduate curriculum of one year's duration is designed for the student who has completed the requirements for a bachelor's degree in a university or another college and wishes to become certified to teach in the elementary and junior high schools.

In order to enrol in this curriculum the student must furnish the Registrar with complete transcripts of all university or college credits earned. Course schedules are arranged in consultation with the Registrar and must provide for a total of 48 credits.

The diploma awarded upon the completion of the graduate curriculum entitles the holder to teach in the elementary and junior high schools of the state of Washington for three years.

Students enrolled in the graduate curriculum may qualify for the degree of *Bachelor of Arts in Education* by meeting the requirements of the Four-Year Curriculum or their equivalent.

GENERAL COLLEGE CURRICULUM

This curriculum consists of courses for students who are not preparing to teach.

The college is primarily a teacher education institution, but students who wish to do one or two years of general college work will find a wide variety of courses open to them in arts and sciences, in pre-professional, or in pre-technical fields. General college opportunities are available because the first two years of teacher education are essentially the same as the lower division or general college years in other colleges and universities, and because liberal education courses are emphasized in the major and minor requirements of the college.

The general college curriculum meets the needs of three groups of students: (1) those who wish to transfer to universities and other colleges after two years at Cheney; (2) those who desire a college education but have not chosen a major field; and (3) those who plan to complete only two years of college work. Students who wish to transfer to Pacific Coast colleges and universities which offer professional,

technical, or arts and sciences curricula may expect their credits to be accepted toward sophomore, junior, or senior requirements. The student who has not made a decision as to which curriculum he wishes to complete may take basic courses which will (a) aid him to make an intelligent choice of a profession or major field, (b) provide a foundation for later specialization, and (c) insure a good general education. If such a student desires to enter the teaching profession, he may remain at Cheney for his junior and senior years. Students who plan to complete only two years of college work may secure two years of broad general education at Cheney and also have some opportunity to specialize.

The class schedules of general college students are in every instance planned to meet individual needs. Mr. G. W. Wallace, Registrar, and Mr. R. F. Hawk, Director of Research, serve as advisers. In most instances the general college student finds it profitable to remain at Cheney for two years before transferring. All students are required to take courses in Physical Education Activities (P. E. 4 or P. E. 13) and in Campus Ethics (freshman orientation).

The fields of instruction from which general college courses are most frequently chosen are Biological and Physical Science, English, History, Industrial Education, Mathematics, Modern Languages, and Social Science. The following is a list of courses which are often taken by general college students:

Biol. 51, 52, 53	Zoology	12 credits
Biol. 61, 62, 63	Botany	12 credits
Chem. 51, 52, 53	General Chemistry	15 credits
Eng. 1, 2, 3 or 4	Composition, Literature	12 credits
Eng. 51, 52, 53	Survey of English Literature.....	12 credits
French 1, 2, 3	First Year French.....	12 credits
French 4, 5, 6	Second Year French.....	9 credits
German 1, 2, 3	First Year German.....	12 credits
German 4, 5, 6	Second Year German.....	9 credits
Hist. 50, 51, 52	History of Western Europe.....	12 credits
Hist. 114, 115, 116	American History	15 credits
I. E. 45, 46, 47	Engineering Drawing	9 credits
Math. 54, 55, 56	College Algebra; Trigonometry; Analytics	15 credits
Math. 110, 111, 112	Calculus	15 credits
Phys. 61, 62, 63	General Physics	15 credits
S. S. 61, 62, 67	Sociology; Economics; Political Science	15 credits

Other general college courses are available in the following fields:

Art	Mathematics
Biology	Music
Chemistry	Philosophy
English	Physical Education
Geography	Psychology
History	Social Science
Home Economics	Speech
Industrial Education	

Pre-Nursing. In cooperation with the nursing education division of the state department of licenses the college is offering the following curriculum in pre-nursing:

FALL QUARTER

Chem. 51	General Chemistry	5 credits
Eng. 1	Composition	4 credits
Home Ec. 156	Dietetics (Nutrition)	3 credits
Psych. 1	General Psychology	5 credits

WINTER QUARTER

Biol. 120	Bacteriology	4 credits
Chem. 52	General Chemistry	5 credits
Eng. 2	Composition	4 credits
Home Ec. 166	Dietetics (Nutrition)	3 credits

SPRING QUARTER

P. E. 125	Physiology	5 credits
P. E. 130	History of Nursing.....	3 credits
Soc. Sci. 61	General Sociology	5 credits
Art 53	Elementary Crafts, or Free Electives	4 credits

SUMMER QUARTER

P. E. 135	Physiology	5 credits
Psych. 137	Mental Health	5 credits
Soc. Sci. 62	Economics	5 credits

Miss Emily J. Craney, College Nurse, and Mr. G. W. Wallace, Registrar, cooperate in advising pre-nursing students. Inquiries may be addressed to either the Nurse's or Registrar's office.

MAJORS, MINORS AND COURSE DESCRIPTIONS

In the following section of the catalog will be found outlines of major and minor requirements together with descriptions of courses offered.

The fields of instruction are arranged in alphabetical order.

Courses numbered 1-99 are intended primarily for freshmen and sophomores; those numbered 100 and above for juniors and seniors.

When the words "Freshmen," "Sophomores," "Juniors," or "Seniors" are found in the outlines of major and minor requirements, they refer to courses which should ordinarily be taken in those years. Where no designation appears, the Major Adviser should be consulted.

ART

MR. HUNGATE, *Department Head*

MISS SWERER, *Major Adviser*

MISS GINGRICH, MISS WILEY

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major

Art 52	Design and Color—Sophomores.....	4 credits
Art 53	Elementary Crafts—Sophomores	4 credits
Art 54	Primary Construction—Sophomores	2 credits
Art 101 or 121	Public School Art—Juniors.....	3 credits
Art 102	Art Organization—Juniors	4 credits
Art 103	Art History—Juniors	4 credits
Art 104	Advanced Crafts—Seniors	4 credits
Art 105	Interior Decoration—Seniors	3 credits
Art 106	Figure Drawing—Seniors	3 credits
Art 107	Commercial Design—Seniors	3 credits
Art 108	Lettering—Seniors	2 credits
Total		36 credits

First Minor

Choice of 20 credits in Art (exclusive of Art 1).

Second Minor

Choice of 12 credits in Art (exclusive of Art 1).

Art 1. Introduction to Art. The study of the art of color and form as to its place in life, and in the scheme of education, and its use in the schools. The course will focus upon organization of elements expressed through drawing. Crayon, chalk, pencil, charcoal, linoleum block used as media.

All quarters. Four credits. Staff.

Art 52. Design and Color. The principle and laws of organization as applied to the construction pattern and contour design, expressed through color.

Spring, winter and summer quarters. Four credits. Staff.

Art 53. Elementary Crafts. Construction and application of pattern and contour design to bookbinding, basketry and other crafts.

Winter, spring and summer quarters. Four credits. Staff.

Art 54. Primary Construction. Construction of a simple problem directly usable in the primary grades and rural schools. Emphasis placed upon building according to the principle and laws of organization.

Winter and summer quarters. Two credits. Staff.

Art 55. Blackboard Sketching. A course in sketching on the blackboard, utilizing various methods.

Prerequisite: Art 1. Spring and summer quarters. Two credits. Staff.

Art 56. Pottery. A course in pottery modeling.

Fall and spring quarters. Three credits. Staff.

Art 57. Puppetry and Related Arts. The construction of puppets, masks, shadow forms and stage sets. Emphasis is placed upon art structure.

Fall and summer quarters. Three credits. Staff.

Art 58. Water Color. The development of pictorial composition and color quality through the use of various techniques and processes relative to water color as a medium.

Prerequisite: Art 1. Fall and summer quarters. Three credits. Staff.

Art 59. Picture Study. A course for the development of appreciation of pictures through the study of personal, emotional reaction, structural form, historical significance, personality of artist and the subject, with consideration of methods of presentation in the elementary school.

Winter and spring quarters. Three credits. Staff.

Art 101. Public School Art for Elementary Grades. Practical work in art which is directly applicable to the problems of the elementary grades of the modern public school.

Winter and summer quarters. Three credits. Staff.

Art 121. Public School Art for Junior High Schools. Practical study of the work in art which is directly applicable to the problems of the junior high school.

Winter and summer quarters. Three credits. Staff.

Art 102. Art Organization. A study of the philosophy, psychology and practice of the principle and laws of organization as revealed in the art procedure. Practice in developing the ability to organize units of work which are designed for application to the integration method of learning. Consideration of the color-form art as a method of free creative expression of the child's intellectual, emotional and spiritual initiative. Text: Development Course of Study.

Winter, spring and summer quarters. Four credits. Miss Swerer.

Art 103. History of Art. The course is based upon the principle that "Art is the index to the characteristics of races, nations and individuals." Architecture is given the main place in the course.

Fall and summer quarters. Four credits. Staff.

Art 104. Advanced Crafts. Application of decorative and contour design. Woodblocking, dyeing, weaving, leather work, book-making and art metal.

Winter, spring and summer quarters. Four credits. Staff.

Art 105. Interior Decoration. Development of appreciation of color, form and arrangement, as applied to interior

decorating, emphasizing the problem of the small house. Problems in school-room planning and decoration are considered.

Spring and summer quarters. Three credits. Staff.

Art 106. Figure Drawing. Advanced drawing, working from the draped figure.

Prerequisite: Art 1. Winter and spring quarters. Three credits. Staff.

Art 107. Commercial Design. Pen and ink illustration, poster making and other types of advertising.

Fall and summer quarters. Two credits. Staff.

Art 108. Lettering. Manuscript, broad pen, and poster lettering.

This course may be combined with Art 107.

Fall and summer quarters. Two credits. Staff.

Art 109. Oil Painting. A course in which the medium for expression is oil paint. Composition is emphasized.

Fall and summer quarters. Three credits. Staff.

Art 110. Color. The theories of color; color combinations applicable to costumes, interior decoration, and ornament.

Winter and summer quarters. Three credits. Staff.

Art 111. Appreciation of Folk-Art. A study of the arts of the folk and their significance in the life of the people. This will include mainly the crafts and architecture.

Summer quarter. Three credits. Staff.

Art. 112. Student Teaching in Art. Teaching under supervision in the Laboratory School.

Fall, winter and spring quarters. Three credits. Staff.

Art. 113. Contemporary Aesthetics. The arts of sound, body motility, color-form and social behavior presented by specialists in each.

Summer quarter. Three credits. Gingrich.

BIOLOGY

MR. HUNGATE, *Department Head and Major Adviser*

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major

Biol. 51, 52, 53	Zoology	12 credits
Biol. 116	Entomology	4 credits
Biol. 61, 62, 63	Botany	12 credits
Biol. 120	Bacteriology	4 credits
Biol. 121	Genetics	2 credits
Biol. 122	Technique in Biology.....	2 credits
Total.....		36 credits

First Minor

Biol. 51	Zoology	4 credits
Biol. 116	Entomology	4 credits
Biol. 61, 62	Botany	8 credits
Choice of:		
Biol. 52	Zoology	4 credits
Biol. 63	Botany	4 credits
Total.....		20 credits

Second Minor

Choice of 12 credits in courses required for the completion of the first minor.

Note: All courses in Biology are offered by Mr. Hungate.

Biol. 2. Introduction to Biology. A general introductory course.

Fall, winter, summer quarters. Four credits.

Biol. 9. Elementary School Science. The materials suitable for use in the grades, including the collecting of such materials. One bird trip a week is required during the greater part of the quarter.

Spring quarter. Three credits.

Biol. 20. Boy Scout Leadership. Given in conjunction with the Spokane Council, Boy Scouts of America. Training

in scout-craft, and the organizing and conducting of a troop. A certificate is presented to each man completing the course.

Spring quarter. One credit.

Biol. 51, 52, 53. Zoology. Structure and natural history of the invertebrates. Structure, physiology and classification of the vertebrates, using selected types for laboratory work. The different vertebrate classes with reference to their ecological and taxonomic relationships including the field work and preparation of specimens.

Fall, winter, and spring quarters. Four credits a quarter.

Biol. 61, 62, 63. Botany. The tallophytes, bryophytes, pteridophytes, and spermatophytes in relation to their structure, ecology and economic importance. Study and classification of native plants of the region.

Fall, winter, and spring quarters. Four credits a quarter.

Biol. 116. Entomology. Structure and classification of insects. Stress placed upon their economic relationships and their suitability for nature work in the schools. Field work is required.

Spring quarter. Four credits.

Biol. 120. Bacteriology. Study of the growth of bacteria, their physiology and practical importance.

Winter quarter. Four credits.

Biol. 121. Genetics. An elementary course dealing with variation and heredity in plants and animals.

Winter quarter. Two credits. Not given in 1937-38.

Biol. 122. Technique in Biology. Collection and preparation of plant and animal material for study, including fixation, sectioning, staining and preparation of specimens.

Fall quarter. Two credits.

EDUCATION

DR. WILLIAMSON, *Department Head and Adviser*

DR. BARBER, MISS BRYAN, MR. FRASIER, MR.
HAWK, MISS LANE, MISS LAVIN, MR. PENCE,
MISS PETERSON, MR. SHINKLE, DEAN WALLACE.

First Minor in Education—Psychology

Choice of 20 credits from courses numbered above 100 in Education and Psychology except Ed. 103, Ed. 124, Ed. 134, and Psych. 105.

Second Minor in Education—Psychology

Choice of 12 credits from courses numbered above 100 in Education and Psychology except Ed. 103, Ed. 124, Ed. 134, and Psych. 105.

Ed. 2. Introduction to Education. The student is introduced to some of the problems of education and of the teacher. Such topics are treated as: teaching as a vocation, how to study, the American Public School System, current practices in education. The course helps the student start the building of an educational philosophy most likely to meet present-day needs.

All quarters. Three credits. Mr. Shinkle.

Ed. 103. Public School Systems. Consideration is given to the early history of Washington, historical beginnings of our school systems, and the State Constitution; the school laws of the State of Washington with emphasis upon the general plan of the State School System, its administration, support, and the teacher in relation to the system. A brief study of other state school systems is made with the idea of attempting better to evaluate our own system.

Summer quarter. Three credits. Mr. Shinkle.

Ed. 107. Problems in Education. A seminar course for advanced students. The purpose is to provide opportunity for intensive study of problems of particular interest to the student.

Prerequisite: Instructor's consent. Summer quarter. Credits to be arranged. Staff.

Ed. 108. Reading in the Elementary School. A detailed study of the mental processes in reading and a careful examination of the procedures and techniques which are most economical in teaching that subject in the elementary grades.

Summer quarter. Two and one-half credits. Miss Peterson.

Ed. 110. Rural Sociology. An introduction to the sociological problems of rural life with special reference to the cultural, material, and structural elements of rural society.

Spring and summer quarters. Three credits. Mr. Craig, Mr. Shinkle.

Ed. 113. Elementary School Curriculum. A study of the current viewpoints regarding curriculum construction. The major problem in the course is the working out of curriculum projects—both as a class group and individually.

Prerequisite: Instructor's consent. Summer quarter. Two and one-half credits. Mr. Hawk.

Ed. 115. History of Education in the U. S. Beginning with the colonial period, a study of the development of educational philosophies and practices in the United States. Particular attention is given to the development of the American public system of tax-supported schools and to the work of educational reformers.

Winter and summer quarters. Three credits. Dr. Williamson.

Ed. 120. Supervision of Instruction. The improvement of instruction through supervision in grades one to nine inclusive. Emphasis on this problem as related to the small school system.

Prerequisite: One year of teaching experience or the instructor's consent. Spring and summer quarters. Four credits. Miss Lavin, Mr. Frasier.

Ed. 122. History of Education. A study of the development of educational philosophies, teaching practices and school administration and their relation to the history of civilization. The course begins with the history of the Greeks and continues the story up to the present.

Winter and summer quarters. Alternate with Ed. 122. Five credits. Dr. Williamson.

Ed. 124. Educational Sociology. A study of modern social organization and its relation to education; the individual and the social group; the social objectives of education; the relation of the school to other institutions; practical problems in the social aspects of school organization and methods.

Prerequisite: Junior or senior standing. All quarters. Five credits. Dr Barber.

Ed. 126. Elementary School Administration. The practical problems of elementary administration, supervision, and school finance adapted to the needs of students preparing to serve as elementary school principals.

Prerequisite: One year of teaching experience or the instructor's consent. Winter and summer quarters. Four credits. Mr. Frasier.

Ed. 128. Junior High School Administration and Curriculum. The development of the junior high school and theory and practice of administration and teaching. A special study is made of curriculum practices and of extra-curricular activities.

Prerequisite: Junior or Senior standing. Spring and summer quarters. Five credits. Dr. Williamson, Mr. Pence.

Ed. 133. Conflicting Theories in Modern Education. The various trends and conflicts in American education. The development of the theory of the so-called "activity program" as framed by the thinking of Rousseau, Pestalozzi, Dewey and others; the "discipline" theory; the scientific movement in education. An effort is made to understand the contrasting educational view-points of leading contemporary educators.

Prerequisite: Junior or senior standing. Spring and summer quarters. Five credits. Dr. Williamson.

Ed. 134. Philosophy of Education. A course designed to clarify thinking relative to the purposes of education, the role of the teacher, and the function of the school in present day society. The nature of the individual, how he learns, the place of interest in learning. The viewpoint presented is essentially that of progressive education.

Prerequisite: Junior or senior standing. Fall, winter, spring, and summer quarters. Five credits. Dr. Williamson.

Ed. 135. Public School Finance. Problems of public school support. Emphasis on costs, federal policies, revenue sources, taxation, equalization, apportionment, budgeting, and local problems.

Prerequisite: One year of teaching experience or the instructor's consent. Not offered 1937-38. Three credits. Dean Wallace.

Ed. 139. Current Educational Topics. Events of the day as related to education. A study is made of current news and educational periodicals.

Prerequisite: Instructor's consent. Summer quarter. One credit. Dr. Williamson.

Ed. 140. Rural School Problems. A consideration of the problems of the rural school teacher.

Prerequisite: Education 103. Summer quarter. Two credits. Mr. Craig, Mr. Shinkle.

Ed. 141. Guidance and Personnel Procedures. Principles and techniques for the discovery and direction of the individual's abilities, interests, and achievements.

Prerequisite: Junior or senior standing. Winter and summer quarters. Three credits. Mr. Hawk.

Ed. 142. Education and Social Reconstruction. A survey of present social and economic conditions, the social effects of school education in the past, the function of the school in the light of present conditions. Various proposals regarding economic readjustment, crime prevention, and international peace will be considered. Propaganda vs. group thinking.

Prerequisite: Junior or senior standing. Not offered 1937-38. Three credits. Dr. Williamson.

Ed. 143. Social Studies in the Kindergarten-Primary Grades. Emphasis upon the importance of social studies in the Kindergarten and the Primary Curriculum. Different types of social study units adaptable to teaching situations. Summer quarter. Two and one-half credits. Miss Lane.

Ed. 144. Teaching of Science in Kindergarten-Primary Grades. Principles involved in the teaching of science in kindergarten and primary grades. The kinds of experiences which may be utilized to interest children in natural phenomena. An opportunity to develop units of work pertaining to

science. Summer quarter. Two and one-half credits. Miss Bryan.

Ed. 147. Reading Clinic and Remedial Procedures. Use of diagnostic apparatus and tests, interpretation of reading scores, reading readiness, procedures for the improvement of reading habits, study of reading problem cases. Summer quarter. Two and one-half credits. Hawk and Peterson.

Ed. 149. Advanced Educational Measurement. Statistical procedure usable by principals and supervisors. School surveys, graphic presentation of data and construction of tests are major topics.

Prerequisite: Instructor's consent. Winter and summer quarters. Three credits. Mr. Hawk.

Phil. 51. Introduction to Philosophy. A general introduction to the field of philosophy. Current problems will be used to stimulate reflective thinking, and the aim throughout will be to develop a more adequate outlook on life.

Prerequisite: Sophomore standing. Fall quarter. Five credits. Dr. Williamson.

Phil. 53. Introduction to Ethics. An analysis of moral situations, types of moral ideas such as the pursuit of pleasure, the idea of duty, etc., the relation of the individual to society.

Prerequisite: Sophomore standing. Fall and spring quarters. Four credits. Dr. Williamson.

ENGLISH

DR. TIEJE, *Department Head and Major Adviser*
MR. ALLEN, MRS. BROWN, MISS DICKINSON, MR. GRUBER,
MR. HOLMQUIST

Students desiring to arrange a combined English-Speech major should, before registering, consult with the Head of the Department in order to arrange a satisfactory schedule.

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major in English

Note: See English 3.

Eng. 51, 52, 53	Survey of English Literature—Sophomores	12 credits
Eng. 61	Syntax—Juniors	3 credits
Eng. 192	Advanced Composition—Juniors.....	4 credits
Eng. 151-2-3	Shakespeare—Juniors	4 credits
Eng. 105	History of Language or	
Eng. 106	Advanced Grammar—Seniors.....	3 credits
Choice of eight credits:—Seniors.....		8 credits
Eng. 103	Children's Literature	
Eng. 151	Shakespeare: Comedies	
Eng. 152	Shakespeare: Tragedies	
Eng. 153	Shakespeare: Histories	
Eng. 156	Ibsen and Shaw	
Eng. 158	Modern Drama	
Eng. 159	Contemporary Drama	
Eng. 161	Contemporary Poetry	
Eng. 162	Modern Magazine	
Eng. 175	Modern British Novel	
Eng. 181	American Poetry	
Eng. 182	American Prose	
Eng. 183	American Short Story	
Eng. 185	Modern American Novel	
Total		34 credits

First Minor in English

Note: See English 3.

Eng. 51, 52, 53	Survey of English Literature—Sophomores	12 credits
Eng. 61	Syntax—Juniors	3 credits
Eng. 192	Advanced Composition—Juniors.....	4 credits
Total		19 credits

Second Minor in English

Choice of 12 credits in courses required for the completion of the above first minor.

Note: Courses numbered 1-61 inclusive may not be taken by correspondence. Those numbered 100 and above may be taken by correspondence only with consent of the instructor and the written permission of the Head of the Department.

Eng. A. Sub-freshman English. Drill on grammatical correctness and on elementary problems in syntax and punctuation.

Students showing deficient preparation in English will be assigned to this course.

Fall quarter. *No credit.* Four recitations a week. Mr. Holmquist, Mr. Gruber.

Eng. 1, 2. Composition. Sentence structure for emphasis, analysis of paragraphs, themes.

Required of all in freshman year. May not be counted toward a major or minor. Fall and winter quarters. Four credits. Dr. Tiejé and staff.

Eng. 3. Reading of English Literature. The oral reading of literature for thought content. Poetic analysis; poetic methods; versification; literary types.

Required of majors and minors in English and Speech, freshman year. Students taking this course may not take English 4. Prerequisites: *English 1 and 2.* Spring quarter. Four credits. Mr. Allen.

Eng. 4. Cultural Backgrounds. The contributions of English literature to modern culture.

Not open to majors or minors in English; required of all others before the junior year. Students taking this course may not take English 3. Prerequisites: *English 1 and 2.* Spring quarter. Four credits. Dr. Tiejé and staff.

Eng. 40. Newswriting. Gathering material, organization of news stories, leads.

Open to freshmen. Recommended to those who intend to enter the junior high school course or who are interested in journalism. Fall and spring quarters. Three credits. Mr. Holmquist.

Eng. 41, 42, 43. Journalism. A course for those on the staff of the college paper.

May be begun any quarter. Recommended to those preparing to teach in the junior high school. Fall, winter, spring quarters. Three credits a quarter. Mr. Holmquist.

Eng. 51, 52, 53. Survey of English Literature. An historical survey of English literature from Beowulf to Hardy.

These courses run in sequence and should be begun in the fall quarter. Required of all Speech and English majors and minors in the sophomore year. Prerequisites: English 1, 2, 3. Fall, winter, spring quarters. Four credits a quarter. Dr. Tiejé.

Eng. 61. Syntax. A rapid review of fundamental constructions in English with emphasis on correct usage.

Prerequisite: *English 1 and 2.* Alternate years, fall quarter. Three credits. Dr. Tiejé.

Eng. 103. Children's Literature. The classical and modern bibliography and theory.

Prerequisite: *English 3 or 4.* Summer quarter. Alternate years, fall quarter; not given in 1937. Three credits. Dr. Tiejé.

Eng. 105. History of Language. A brief study of the development of the English language.

Prerequisite: *English 61.* Winter quarter. Three credits. Dr. Tiejé.

Eng. 106. Advanced Grammar. Subordinate clauses, verbals, idioms.

Prerequisite: *English 61.* Spring quarter. Three credits.

Eng. 151. Shakespeare: Comedies. *Midsummer Night's Dream; As You Like It; Twelfth Night; Tempest.*

Prerequisite: *Junior Standing.* Fall quarter. Four credits. Dr. Tiejé.

Eng. 152. Shakespeare: Tragedies. *Romeo and Juliet; Macbeth; King Lear; Hamlet.*

Prerequisite: *Junior standing.* Winter quarter. Four credits. Dr. Tiejé.

Eng. 153. Shakespeare: Histories. *Richard II; Henry IV, Henry V; Richard III; Julius Caesar.*

Prerequisite: *Junior standing.* Spring quarter. Four credits. Dr. Tiejé.

Eng. 156. Ibsen and Shaw. Rapid reading of typical plays.

Prerequisite: *English 3 or 4.* Fall quarter. Two credits. Miss Dickinson.

Eng. 158. Modern Drama. The drama from 1900-1920. Rapid reading of typical plays with lectures on the significance of the authors.

Prerequisite: *English 3 or 4.* Winter quarter. Three credits. Miss Dickinson.

Eng. 159. Contemporary Drama. The drama after 1920. A study of the shift in dramatic matter and techniques.

Prerequisite: English 3 or 4. Spring quarter. Three credits. Miss Dickinson.

Eng. 161. Contemporary Poetry. A rapid and extensive reading in British and American poetry since 1900.

Prerequisite: English 3 or 4. Spring quarter, 1938. Four credits. Mr. Gruber.

Eng. 162. The Modern Magazine. An examination of standard American magazines. Designed to cultivate critical discrimination in this field of modern literature.

Prerequisite: English 3 or 4. Spring quarter, 1939. Four credits. Mr. Gruber.

Eng. 165. Masterpieces. Great books of all nations.

Prerequisite: English 3 or 4. Fall quarter. Four credits. Mr. Allen.

Eng. 175. Modern British Novel. The Brontës and Meredith to D. H. Lawrence.

Prerequisite: English 3 or 4. Fall quarter, 1938. Four credits. Mr. Allen.

Eng. 181. American Poetry. A brief survey of the earlier poets; Whitman and his influence; transition and contemporary poets.

Prerequisite: English 3 or 4. Winter quarter, 1939. Four credits. Mr. Holmquist.

Eng. 182. American Prose. A brief survey of the earlier authors; readings from Emerson, Thoreau, Melville, Lowell, Holmes, William James, Henry Adams, and others.

Prerequisite: English 3 or 4. Winter quarter 1940. Four credits. Mr. Holmquist.

Eng. 183. American Short Story. The development of the type with intensive study of recognized masterpieces and some attention to the modern types.

Prerequisite: English 3 or 4. Winter quarter. Four credits. Mr. Holmquist.

Eng. 185. Modern American Novel. A survey of American fiction from Henry James to date.

Prerequisite: English 3 or 4. Fall quarter, 1939. Four credits. Mr. Allen.

Eng. 192. Advanced Composition. The forms of discourse. Short themes, three long themes.

Prerequisite: English 3 or 4. Spring quarter. Four credits. Mr. Allen.

GENERAL SCIENCE

DR. FREEMAN OR MR. HUNGATE, *Major Adviser*

Joint majors and first minors in general science are offered in the fields of biology and physical science. Approximately one-half the credits should be earned in each field with a minimum of 15 required from physical science, 16 from biological science, and four from either biological or physical science. Substitutions may be allowed in his field by the adviser concerned.

Major

Physics	61, 62, 63		
or			15 credits
Chemistry	51, 52, 53		
Biology 51, 52, 53	Zoology	}	16 credits
Biology 61	Botany		
or			
Biology 61, 62, 63	Botany	}	16 credits
Biology 51	Zoology		
Choice from Biology, Chemistry and Geog.	110		
Elements of Geology			4 credits
Total			35 credits

First Minor

Twenty credits in biology and physical science (exclusive of Introduction to Biological Science and Survey of the Physical Sciences).

For courses in the biological and physical sciences see the sections of this catalog headed "Biology" and "Physical Sciences."

GEOGRAPHY

DR. FREEMAN, *Department Head and Major Adviser*

DR. BOTSFORD, DR. RISTOW

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major

Geog. 103	Economic Geography	4 credits
Geog. 104	North America	4 credits
Geog. 107	Geography of Washington.....	2 credits
Geog. 110	Elements of Geology.....	3 credits
Geog. 113	Europe or Geog. 111. Asia.....	4 credits
Choice of 18 credits in Geography (exclusive of Geog. 1).		18 credits
Total		35 credits

First Minor

Choice of 20 credits in Geography (exclusive of Geography 1).

Second Minor

Choice of 12 credits in Geography (exclusive of Geography 1).

Geog. 1. Elements of Geography. The fundamental principles of human adjustment to natural environment. Aims: (1) to develop in the student the power to interpret geographic environment in terms of its relation to human activities; (2) to train the student in the selection, organization, and presentation of essential materials for the teaching of geography.

All quarters. Five credits. Dr. Freeman, Dr. Ristow, Dr. Botsford.

Geog. 103. Economic Geography. The location and production of essential commodities in the United States and abroad, and the factors affecting their production and distribution. A geographic study of the commerce of foreign countries and world trade.

Winter and summer quarters. Four credits. Dr. Freeman.

Geog. 104. North America. An economic, commercial, social, physical, and regional study of the continent.

Fall and summer quarters. Four credits. Dr. Ristow.

Geog. 105. South America. A regional study emphasizing our commercial relations with South America. Deals with social, economic, and political problems in relation to natural environment in the various regions.

Spring and summer quarters. Three credits. Dr. Ristow.

Geog. 107. Geography of Washington. An economic study of the contrasted distribution of population and industries in relation to the contrasted geographic environment of the eastern and western parts of our state. Suggestions for various methods of teaching the geography of the state of Washington. Practical problems to be carried over into elementary and junior high teaching.

Fall and summer quarters. Two credits. Three credits may be given when equivalent extra work is done. Dr. Freeman.

Geog. 108. Historical Geography of the United States. A study of the geographic factors most closely concerned with the history of our country. The geography of the early oriental trade and the geography of early European history. Special emphasis on the westward movement; on the rise of cities; on the growth of trade and transportation; and on the place of the United States as a world power.

Fall and summer quarters. Three credits. Dr. Ristow.

Geog. 109. World Problems. A study dealing chiefly with the geography of Europe and of her colonial problems, based on Bowman's *New World*. Other continents in terms of their dominant political and economic problems. Of special value to teachers in the interpretation and correlation of geography and history.

Spring quarter. Three credits. Dr. Ristow.

Geog. 110. Elements of Geology. Considers the origin and development of surface features of the earth, and briefly studies the probable evolution of life upon the earth and the historical geology of North America. Students learn to identify

common rocks and minerals, and to use topographic maps. Field trips taken to nearby places of interest.

Spring and summer quarters. Three credits for class work. Two extra credits for laboratory work. Dr. Freeman.

Geog. 111. Asia. A regional study of Asia. Relationships between economic activities and natural environment in the various geographic regions and countries.

Spring and summer quarters. Four credits. Dr. Freeman.

Geog. 112. Africa. A regional study of Africa and the industries and culture of the people as related to the environment.

Winter and summer quarters. Three credits. Dr. Freeman.

Geog. 113. Europe. A study of the economic and political development of peoples as related to natural and non-environmental conditions in Europe. Colonial problems in international relations.

Winter and summer quarters. Four credits. Dr. Ristow.

Geog. 114. Climatology. A study of climatic divisions of the earth and their relation to the distribution of human activities. Special emphasis on the interpretation of maps, weather charts, and original weather data from representative stations throughout the world.

Fall quarter. Three credits. Dr. Ristow.

Geog. 115. Geography of the Pacific. The oceanic islands, coasts, trade routes, geographic influences, and commercial, economic, and political problems of the Pacific.

Spring quarter. Three credits. Dr. Freeman.

Geog. 117. Resources and Conservation. The natural resources in minerals, timber, soil, wild life, etc., of the United States. Their conservation and relation to foreign supplies.

Spring quarter. Three credits. Dr. Botsford.

Geog. 120. Field Trips. Six field trips in geology and geography to Grand Coulee, "Hole-in-the-Ground," Lake Chelan and elsewhere.

Summer quarter. One credit. Dr. Freeman.

Geog. 121. Advanced Field Trips. Two weeks. Taken at the close of the summer quarter. In 1937 to Alaska. During

the excursion, places of geological and geographic interest are intensively studied. A study trip to Hawaii will be offered during the second term of the 1938 summer quarter.

Three credits. Dr. Freeman.

Geog. 123. Middle America. Studies of the West Indies, Caribbean, Mexico, and Central America.

Winter quarter. Three credits. Dr. Ristow.

Geog. 124. Physiography of Western United States. Studies scenic features and influence of geology on man's activities.

Alternate years. Fall 1938. Three credits. Dr. Freeman.

HISTORY

MR. KINGSTON, *Department Head and Major Adviser*

MR. COBB,* MR. TYLER, MR. GANGE

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Students taking courses 114, 115, and 116 in their major or minor are excused from History 4.

Major

Three of the following four courses:

Hist. 50	Early Civilization	
	The Classical Period.....	4 credits
Hist. 51	History of Western Europe	
	The Mediaeval Period.....	4 credits
Hist. 52	History of Western Europe	
	The Early Modern Period.....	4 credits
Hist. 105	European History	
	Since 1815	5 credits

The following four courses:

Hist. 114	American History to 1783.....	5 credits
Hist. 115	American History, 1783-1865.....	5 credits
Hist. 116	American History since 1865.....	5 credits
Hist. 107	Northwest History	4 credits

One of the following four courses:

Hist. 111	British North America.....	3 credits
Hist. 112	Latin America	3 credits
Hist. 118	Contemporary Russia	3 credits
Hist. 119	Far Eastern Relations.....	3 credits

Total34-35 credits

* Absent on leave, June, 1937-June, 1938.

First Minor—Intermediate Grades

Hist. 50	The Classical Period.....	4 credits
Hist. 51	History of Western Europe The Mediaeval Period.....	4 credits
Hist. 52	History of Western Europe The Early Modern Period.....	4 credits
Hist. 114	American History to 1783.....	5 credits
Hist. 107	Northwest History.....	4 credits
Total		21 credits

First Minor—Junior High Grades

Hist. 114	American History to 1783.....	5 credits
Hist. 115	American History, 1783-1865.....	5 credits
Hist. 116	American History since 1865.....	5 credits
Hist. 105	European History since 1815.....	5 credits
Total		20 credits

Second Minor

Choice of 12 credits in courses required for the completion of the above first minors.

Hist. 4. United States History. A general survey of the leading facts of American History.

Students are excused from this course if they take courses 114, 115, and 116 in either a major or a minor. Others, if well acquainted with the subject matter of American History, will be advised to elect another history course in lieu of History 4. All quarters. Five credits.

Hist. 50. Early Civilization and the Classical Period. The eastern Mediterranean background and the classical civilizations of Greece and Rome to the end of the Roman Empire of the West.

Fall quarter. Four credits. Mr. Kingston.

Hist. 51. Western Europe, The Mediaeval Period. A general survey course of the social and political institutions of western Europe from the fifth century to 1500.

Winter quarter. Four credits. Mr. Kingston.

Hist. 52. Western Europe, The Early Modern Period. A continuation of the preceding course covering the political and cultural history of western Europe from 1500 to 1815.

Spring quarter. Four credits. Mr. Kingston.

Hist. 105. European History Since 1815. A historical perspective of European affairs during the 19th century; the background of the Great War and the present European situation.

Spring and summer quarters. Five credits. Mr. Gange and Mr. Cobb.

Hist. 107. Northwest History. The exploration of the Pacific Northwest, the fur trade, the missionaries, the gold discoveries, railroad building, industrial development, and political history, with special reference to Washington.

Winter and summer quarters. Four credits. Mr. Kingston.

Hist. 111. British North America. An outline of the history and development of the political institutions of Canada.

Spring quarter. Three credits. Mr. Kingston.

Hist. 112. Latin America. An outline of Spanish and Portuguese settlements in the western continent, the wars of independence, and a rapid summary of events in the more important Latin American countries.

Fall quarter. Three credits. Mr. Gange.

Hist. 114. American History to 1783. The period of exploration and discovery, early colonization, and growth of the English colonies, to the adoption of the Constitution.

Fall and summer quarters. Five credits. Mr. Gange and Mr. Cobb.

Hist. 115. American History, 1783-1865. Formation of the Constitution, political development, western expansion, the slavery question, secession, to the end of the Civil War.

Winter and summer quarters. Five credits. Mr. Gange and Mr. Cobb.

Hist. 116. American History since 1865. The political issues and economic and social development of the United States during the last seventy years.

Spring and summer quarters. Five credits. Mr. Gange and Mr. Cobb.

Hist. 118. Contemporary Russia. The economic, social and cultural phases of Russian history since the revolution of 1917, with a review of the Imperial period as background.

Summer quarter. Three credits. Mr. Cobb.

Hist. 119. Far Eastern International Relations. A survey of the problems of the Pacific area with special emphasis upon Chinese, Japanese, and Russian relations with each other and upon the role of the United States in the international relations of this region.

Summer quarter. Three credits. Mr. Cobb.

HOME ECONOMICS

MR HUNGATE, *Department Head*

MRS. ANDERSON, *Major Adviser, Foods and Nutrition*

MISS BRODNAX, *Major Adviser, Textiles and Clothing*

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Those majoring in Home Economics are advised to take Chemistry as a second minor (Chemistry 51, 52, 53).

Major

Home Ec. 53	Foods	4 credits
Home Ec. 54	Foods	4 credits
Home Ec. 68	Textiles	3 credits
Home Ec. 70	Clothing	4 credits
Home Ec. 77	Clothing Selection	3 credits
Home Ec. 156	Dietetics	3 credits
Home Ec. 159	Household Management.....	3 credits
Home Ec. 164	Home Economics Methods.....	3 credits
Home Ec. 172	Clothing	4 credits
Choice of 7 credits.....		7 credits
Home Ec. 154	Experimental Cooking....	4 credits
Home Ec. 166	Advanced Dietetics.....	3 credits
	or	
Home Ec. 168	Advanced Textiles.....	3 credits
Home Ec. 177	Historic Costume.....	4 credits
Total		38 credits

First Minor

Home Ec. 68	Textiles	3 credits
Home Ec. 156	Dietetics	3 credits
Choice of 8 credits		8 credits
Home Ec. 53	Foods	4 credits
Home Ec. 54	Foods	4 credits
Home Ec. 70	Clothing	4 credits
Home Ec. 159	Household Management...	3 credits
Home Ec. 172	Clothing	4 credits
Choice of 7 credits		7 credits
Home Ec. 154	Experimental Cooking.....	4 credits
Home Ec. 166	Advanced Dietetics.....	3 credits
or		
Home Ec. 168	Advanced Textiles.....	3 credits
Home Ec. 177	Historic Costume.....	4 credits
Total		21 credits

Second Minor

Choice of 12 credits in courses required for the completion of the above first minor.

Home Ec. 1. Introduction to Home Economics. A study of foods, clothing, and home activities.

Fall and spring quarters. Two credits. Mrs. Anderson and Miss Brodnax.

Home Ec. 52. Food Selection. A lecture course. How to select foods according to the rules of healthful living.

All quarters. One credit. Mrs. Anderson.

Home Ec. 53. Foods. The production, distribution, marketing, and cost of foods with emphasis upon the composition, nutritive value, principles of cooking and the place in the diet. Emphasis on the food supplying carbohydrates, fats, vitamins, and ash.

Fee \$4.00. Fall and spring quarters. Four credits. Mrs. Anderson.

Home Ec. 54. Foods. Continuation of Home Ec. 53. An intensive study of the food supplying proteins, and of table service for breakfasts, dinners, luncheons, teas, decoration, and practical experience in serving.

Fee \$4.00. Summer and winter quarters. Four credits. Mrs. Anderson.

Home Ec. 61. School Lunch. The food needs of school children, with plans and methods of serving hot lunches.

Fall and spring quarters. One credit. Mrs. Anderson.

Home Ec. 68. Textiles. Study of fabrics, particularly recognition of prices and use of staple materials. A collection of samples of cotton, linen, silk, wool, and rayon will be made.

Fee \$1.00. Fall and summer quarters. Three credits. Miss Brodnax.

Home Ec. 70. Clothing. Underwear course; pattern placing; hand, machine, and decorative stitches; darning and mending lessons.

Prerequisite: Home Economics 68. Fee 50c. Winter, spring, summer quarters. Four credits. Miss Brodnax.

Home Ec. 77. Clothing Selection. Types of persons, and types of line, material, color, etc., suited to each. Presentation lessons.

Winter and summer quarters. Three credits. Miss Brodnax.

Home Ec. 154. Experimental Cookery. Study of special food problems. Each student selects some piece of work concerned with foods. Fee \$4.00.

Prerequisites: Home Ec. 53, 54. Winter and summer quarters. Four credits. Mrs. Anderson.

Home Ec. 156. Elementary Dietetics. The fundamental principles of nutrition; a study of processes of digestive metabolism and the nutritive requirements of the body under various conditions of age and health and the planning of dietaries to meet these requirements of different cost levels.

Open to men as well as women. Fall and spring quarters. Three credits. Mrs. Anderson.

Home Ec. 159. Household Management. The managing of household operations; systematic planning of daily routine; labor-saving equipment; food planning, marketing; the apportionment of the income through the family budget; the woman and the standard of living; her responsibility to the family, and other modern problems.

Winter and summer quarters. Three credits. Mrs. Anderson.

Home Ec. 162. Serving. Table service for breakfasts, luncheons, dinners, teas, and special occasions, including menu planning, table setting, table decoration, and practical experience in serving. Fee \$1.50.

All quarters. Two credits. Mrs. Anderson.

Home Ec. 163. Methods in Home Economics. A survey of the present-day objectives in the field of Home Economics with the methods of presenting them in elementary and junior high school teaching.

Prerequisites: Home Ec. 53, 54, 70, 172. Spring quarter. Two credits. Three lectures a week. Mrs. Anderson and Miss Brodnax.

Home Ec. 164. Student Teaching in Home Economics. Practical experience in conducting the Home Economics classes of the Laboratory School.

Prerequisites: Home Economics 53, 54, 68, 70, 156, 172. All quarters. Credits to be arranged. Mrs. Anderson, Miss Brodnax.

Home Ec. 166. Advanced Dietetics. Continuation of Home Ec. 156. A study of food requirements in health and disease from infancy to old age. Animal experimentation.

Prerequisite: Home Ec. 156. Fee \$1.00. Open to men as well as women. Winter and summer quarters. Three credits. Two lectures and two laboratory periods a week. Mrs. Anderson.

Home Ec. 168. Advanced Textiles. A study of fabrics with the aim of developing good judgment in the buying and use of clothing and house furnishing materials. Two lectures and one laboratory period per week.

Prerequisite: Home Ec. 68. Fee \$1.00. Fall, spring, and summer quarters. Three credits. Miss Brodnax.

Home Ec. 172. Clothing. Two dresses, one involving the handling of cotton materials. Study of altering and placing patterns, and of styles suitable for different members of the class.

Prerequisite: Home Ec. 68 and 70. Fee 50c. Fall, spring, and summer quarters. Four credits. Miss Brodnax.

Home Ec. 173. Art Needlework. The simple decorative and embroidery stitches and four problems showing the application of the stitches.

Spring and summer quarters. Three credits. Miss Brodnax.

Home Ec. 177. Historic Costume. A study of period costume including adaptation suitable for plays and pageants.

Winter and summer quarters. Four credits. Miss Brodnax.

Prerequisite: Home Ec. 172.

INDUSTRIAL EDUCATION

MR. HUNGATE, *Department Head*

MR. DALES, *Major Adviser*

MR. HOCHTRITT, MR. LANE

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Students desiring a general knowledge of Industrial Education, but not preparing to teach in that field, may arrange a three-year or four-year non-teaching minor in Industrial Education by consulting the Major Adviser.

Major

Ind. Ed. 60	Engineering Drawing—Freshmen.....	3 credits
Ind. Ed. 61	Engineering Drawing—Freshmen.....	2 credits
Ind. Ed. 52	Wood Turning—Sophomores, Juniors.....	1 credit
Ind. Ed. 55	Wood Finishing—Sophomores, Juniors....	1 credit
Ind. Ed. 65	Furniture Design—Sophomores, Juniors...	1 credit
Ind. Ed. 66	Furniture Construction—Sophomores, Juniors	3 credits
Ind. Ed. 71	Electrical Work—Sophomores, Juniors....	2 credits
Ind. Ed. 80	Class and Shop Organization and Management—Sophomores, Juniors.....	2 credits
Ind. Ed. 90	Mill Work—Sophomores, Juniors.....	3 credits
Choice of three.....		6 credits
Ind. Ed. 105	Carpentry—Juniors	2 credits
Ind. Ed. 110	Sheet Metal—Juniors.....	2 credits
Ind. Ed. 115	Bench Metal—Juniors.....	2 credits
Ind. Ed. 120	Machine Lathe—Juniors.....	2 credits
Ind. Ed. 146	Printing—Juniors	2 credits
Ind. Ed. 140	Period Furniture Construction—Seniors...	4 credits
Ind. Ed. 141	Period Furniture Design—Seniors.....	1 credit
Ind. Ed. 175	Philosophy of Vocational Education— Seniors	2 credits
Ind. Ed. 180	History of Industrial Education—Seniors..	2 credits
Ind. Ed. 190	Seminar in Industrial Education—Seniors..	2 credits
Total		35 credits

First Minor

Ind. Ed. 60	Engineering Drawing—Sophomores, Juniors	3 credits
Ind. Ed. 52	Wood Turning—Sophomores, Juniors.....	1 credit
Ind. Ed. 55	Wood Finishing—Sophomores, Juniors....	1 credit
Ind. Ed. 65	Furniture Design—Sophomores, Juniors...	1 credit
Ind. Ed. 66	Furniture Construction—Sophomores, Juniors	3 credits
Ind. Ed. 80	Class and Shop Organization and Manage- ment—Sophomores, Juniors	2 credits
Choice of two.....		4 credits
Ind. Ed. 71	Electrical Work—Juniors....	2 credits
Ind. Ed. 105	Carpentry—Juniors	2 credits
Ind. Ed. 110	Sheet Metal—Juniors.....	2 credits
Ind. Ed. 115	Bench Metal—Juniors.....	2 credits
Ind. Ed. 175	Philosophy of Vocational Education— Seniors	2 credits
Ind. Ed. 180	History of Industrial Education—Seniors..	2 credits
Total		19 credits

Second Minor

Choice of 12 credits required for the completion of the above first minor.

Ind. Ed. 1. Introduction to Industrial Education. The development of elementary skills and appreciations in industrial education. The student is introduced to the problems of the field by participating in the several activities of the industrial education program and by studying its aims.

All quarters. Two credits. Mr. Lane, Mr. Dales.

Woodworking

Ind. Ed. 52. Wood Turning. The use and care of lathes and tools. Spindle and face-plate work.

Fall, winter and summer quarters. One credit. Mr. Lane.

Ind. Ed. 66. Furniture Construction. The construction and finishing of a simple piece of furniture. Hand tools will be used.

Winter and summer quarters. Three credits. Mr. Lane.

Ind. Ed. 90. Mill Work. Care and adjustment of wood-working machinery. An analysis is made for each machine. Installation and maintenance of machines is studied and applied by demonstration and practice.

Fall and summer quarters. Three credits. Mr. Lane.

Ind. Ed. 105. Carpentry. Simple framing, finishing and study of lumber in the construction of some small building or parts of buildings.

Fall 1938. Two credits. Mr. Dales.

Ind. Ed. 135. Wood Carving. A study and use of tools and woods in making low and high relief carving.

Winter and summer quarters. One credit. Mr. Dales.

Ind. Ed. 141. Period Furniture Construction. An advanced course in furniture making. Mortise and tenon, drawer, panel, and veneer construction; also turning, bandsawing, shaping and inlaying may be used. Machines are used for all work.

Winter and summer quarters. Four credits. Mr. Lane.

Ind. Ed. 143. Advanced Wood Turning.

Fall, winter and summer quarters. One or two credits. Mr. Lane.

Metal

Ind. Ed. 71. Electrical Work. A study of the sources, principles and applications of electricity including magnetism, heat, bell circuits, house wiring, and simple motors. Particular attention is given to working out a series of problems suitable for junior high school classes.

Spring quarter, 1939. Two credits. Mr. Lane.

Ind. Ed. 110. Sheet Metal. This course is divided into two parts: elementary hand work and advanced machine work. The sheet metal used will be tin, galvanized and black iron.

Winter quarter, 1938. Two credits. Mr. Dales.

Ind. Ed. 115. Bench Metal. An elementary course in metal working; including chipping, filing, drilling, light forging, tempering, case hardening, using taps and dies, etc. Useful tools and appliances are designed and constructed.

Spring quarter. Two credits. Mr. Lane.

Ind. Ed. 120. Machine Lathe Work. Care and operation of a standard, back geared, screw cutting engine lathe. The course will include spindle turning, face plate and chuck work.

Besides plane turning, instruction will be given in drilling, boring, knurling, gear changing, thread cutting, etc.

Only one student in class.

Fall, spring and summer quarters. Two credits. Mr. Lane.

Ind. Ed. 125. Metal Spinning. Use of wood turning lathe in shaping metal.

Summer quarter. One credit. Mr. Lane.

Ind. Ed. 130. Radio Construction. Theory of transmission and reception. Experimental work with crystal and vacuum tube detectors and amplifiers. Several radio receivers are constructed by each student from laboratory parts.

Spring quarter, 1939. Two credits. Mr. Lane.

Drawing

Ind. Ed. 60. Engineering Drawing. Lettering, applied geometry, sketching, orthographic projection, auxiliary views, revolutions, sectional views and pictorial representations.

Fall and summer quarters. Three credits. Mr. Dales.

Ind. Ed. 61. Engineering Drawing. Developments, intersections, fastenings, detail and assembly drawings, inking tracing and blueprinting.

Winter and summer quarters. Two or three credits. Mr. Dales.

Ind. Ed. 62. Engineering Drawing. Theory and practice in Descriptive Geometry.

Spring quarter. Three credits. Mr. Dales.

Ind. Ed. 65. Furniture Design. Designing, drawing, tracing and blueprinting, a set of working plans for a piece of furniture. These plans to be used in Ind. Ed. 66.

Winter and summer quarters. One credit. Mr. Lane.

Ind. Ed. 140. Period Furniture Design. Designing, drawing, tracing and blue printing a set of working plans for a piece of period furniture. These plans to be used in Ind. Ed. 141.

Winter and summer quarters. One credit. Mr. Lane.

Ind. Ed. 150. Architectural Drawing. Lettering, foundations, framing, details of buildings, stairs and conventions.

Fall and summer quarters. Two credits. Mr. Dales.

Ind. Ed. 151. Architectural Drawing. Floor plans and elevations for a small house.

Winter and summer quarters. Two credits. Mr. Dales.

Ind. Ed. 152. Architectural Drawing. Sections, details, plot plan, tracing and blueprinting.

Spring and summer quarters. Two credits. Mr. Dales.

Organization, Administration and Theory

Ind. Ed. 80. Class and Shop Organization and Management. Planning, installing, cost of equipment and the administration of industrial education courses in elementary and junior high schools.

Spring quarter. Two credits. Mr. Dales.

Ind. Ed. 160. Student Teaching in Industrial Education. Supervised observation and student teaching in the primary, intermediate and junior high industrial education classes.

All quarters. One to five credits. Mr. Dales, Mr. Lane.

Ind. Ed. 165. Instruction Sheets in Industrial Education. The study and writing of several kinds of instruction sheets used in the industrial education classes.

Spring and summer quarters. One credit. Mr. Dales.

Ind. Ed. 170. Industrial Education Tests. The study and writing of several kinds of tests used in the industrial education classes.

Summer quarter. One credit. Mr. Dales.

Ind. Ed. 175. Philosophy of Vocational Education. This course aims to acquaint the student with the objectives, problems, principles and practices of vocational training in the public schools.

Spring quarter. Two credits. Mr. Lane.

Ind. Ed. 180. History of Industrial Education. A study of the background and development of our present industrial education program.

Fall quarter. Two credits. Mr. Dales.

Ind. Ed. 190. Seminar in Industrial Education. A fourth year course that will include the discussion of current industrial education topics and the writing of a term paper.

Winter quarter. Two credits. Mr. Dales.

Other Courses

Ind. Ed. 55. Wood Finishing. A study of the various finishes that are used in the industrial education shops. A complete set of common wood samples will be finished.

Fall, winter, and summer quarters. One credit. Mr. Lane.

Ind. Ed. 145. Home Mechanics. Home repair jobs in wood, glass, metal and paint will be used as problems.

Spring quarter. Two credits. Mr. Dales.

Ind. Ed. 146. Printing. Observation and practice in the print shop.

Spring and summer quarters. Two credits. Mr. Hochtritt.

Ind. Ed. 148. Upholstering and Seat Weaving. Plain and spring upholstering. Cane, reed, cord and rush weaving.

Winter quarter. One credit. Mr. Dales.

Ind. Ed. 149. Concrete. Study of materials and constructions involved in many problems.

Fall quarter. Two credits. Mr. Dales.

LABORATORY SCHOOLS

MR. FRASIER, *Director of Laboratory Schools and Adviser*

MR. PENCE, *Principal Junior High School*

MISS BRYAN, MISS DRYDEN, MRS. HAAS, MISS LANE, MISS LANG,
MISS LAVIN, MISS McGRATH, MISS PETERSON, MISS STOLTE

Student teaching is provided in the Campus Elementary School, the Cheney Junior High School, and the Elementary and Junior High Schools of Spokane.

Students must have a grade point average of 1.00 or better in all credits earned in residence at Cheney in order to do Student Teaching.

Students must register with the Director of Laboratory Schools for Student Teaching during the third quarter before they do Student Teaching. As far as possible, students will be assigned to the grade which they request.

**First and Second Minors in Kindergarten-
Primary Education**

The college now has complete, up-to-date facilities for the training of kindergarten as well as elementary and junior high teachers. Students who are interested in kindergarten or primary work are advised to select kindergarten-primary education as a minor field.

20 credits from the following courses are required for a first minor and 12 for a second minor.

Art. 54.....	Primary Construction
Art. 101.....	Public School Art for Elementary Grades
Art 108.....	Lettering
Biol. 9.....	Elementary School Science
Ed. 108.....	Reading in the Elementary School
Ed. 143.....	Social Studies in the Kindergarten- Primary Grades
Ed. 144.....	Teaching of Science in Kindergarten- Primary Grades
Ed. 147.....	Reading Clinic and Remedial Procedures
Eng. 103.....	Children's Literature
L. S. 121.....	Advanced Kindergarten-Primary Teaching
Lib. Sci. 101.....	Children's Library
Music 101.....	Elementary School Music
Music 131.....	Creative Music
P. E. 109.....	Primary P. E. Methods
Psych. 137.....	Mental Health
Psych. 139.....	Clinical Psychology
Soc. Sci. 116.....	Manuscript Writing
Speech 101.....	Storytelling
Speech 103.....	Corrective Speech
Speech 105.....	Creative Dramatics

NOTE: Students who select kindergarten-primary education must be able to play simple selections on the piano. Instruction in piano may be counted toward the minor requirements.

Second Minors in Intermediate or Junior High Education

12 credits may be selected for a second minor in Intermediate Education or Junior High Education.

L. S. 50. Kindergarten Laboratory Observation. The principles, procedures, and materials of the kindergarten. Lectures, discussions, assigned problems, and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss Lane.

L. S. 51. First Grade Laboratory Observation. The principles, procedures, and materials of the first grade. Lectures, discussions, assigned problems, and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss McGrath.

L. S. 52. Second Grade Laboratory Observation. The principles, procedures, and materials of the second grade. Lectures, discussions, assigned problems and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss Bryan.

L. S. 53. Third Grade Laboratory Observation. The principles, procedures, and materials of the third grade. Lectures, discussions, assigned problems, and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss Peterson.

L. S. 54. Fourth Grade Laboratory Observation. The principles, procedures, and materials of the fourth grade. Lectures, discussions, assigned problems, and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss Stolte.

L. S. 55. Fifth Grade Laboratory Observation. The principles, procedures, and materials of the fifth grade. Lectures, discussions, assigned problems, and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss Lavin.

L. S. 56. Sixth Grade Laboratory Observation. The principles, procedures, and materials of the sixth grade. Lectures,

discussions, assigned problems, and observation in the Campus Elementary School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Two credits. Miss Lang.

L. S. 60. Junior High Laboratory Observation. The principles, procedures, and sources of materials in language, arts, and literature for the junior high school grades—seven, eight, and nine. Lectures, discussions, assigned problems, and observation in the Cheney Junior High School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Three credits. Miss Dryden.

L. S. 61. Junior High Laboratory Observation. The principles, procedures, and sources of materials in social studies, science, and mathematics for the junior high school grades—seven, eight, and nine. Lectures, discussions, assigned problems, and observation in the Cheney Junior High School.

Prerequisites: Ed. 2, Psych. 1, Psych. 66. All quarters. Three credits. Mr. Pence.

L. S. 104. Primary Student Teaching. Supervised teaching in the primary grades; first, second, and third. 200 minutes a day for twelve weeks.

Prerequisite: Two quarters of L. S. 51, 52, 53. All quarters. Ten credits. Miss McGrath, Miss Bryan, Miss Peterson.

L. S. 105. Intermediate Student Teaching. Supervised teaching in the intermediate grades; fourth, fifth, and sixth. 200 minutes a day for twelve weeks.

Prerequisite: Two quarters of L. S. 54, 55, 56. All quarters. Ten credits. Miss Stolte, Miss Day, Miss Lang.

L. S. 106. Junior High Student Teaching. Supervised teaching in the junior high school grades; seven, eight, and nine. 200 minutes a day for twelve weeks.

Prerequisite: L. S. 60 and 61. All quarters. Ten credits. Miss Dryden, Mr. Pence.

L. S. 121. Advanced Primary Teaching. With the permission of the Director of Laboratory Schools, students may elect from one to three credits of supervised teaching in the primary grades.

All quarters. One-three credits to be arranged. Staff.

L. S. 122. Advanced Intermediate Teaching. With the permission of the Director of Laboratory Schools, students may elect from one to three credits of supervised teaching in the intermediate grades.

All quarters. One-three credits to be arranged. Staff.

L. S. 123. Advanced Junior High Teaching. With the permission of the Director of Laboratory Schools, students may elect from one to three credits of supervised teaching in the junior high school grades.

All quarters. One-three credits to be arranged. Staff.

L. S. 195. Principles of Elementary Education. Seminar in the philosophy, organization, procedures, and policies of the Campus Elementary School. For advanced students.

Prerequisite: Consent of the Directory of Laboratory Schools. The entire staff of the Laboratory School comprise the teaching staff for this course. Summer quarter. Five credits.

LIBRARY SCIENCE

MR. BLAIR, *Librarian*

MISS BARTON, MRS. HAAS

Second Minor in Library Science

Lib. Sci. 10	Library Administration.....	2 credits
Lib. Sci. 101	The Children's Library.....	3 credits
English 102	Children's Literature	3 credits
Speech 101	Storytelling	3 credits
Art 108	Lettering	2 credits
Total		13 credits

Lib. Sci. 1. Library Techniques. The use of the college library; methods of organizing and conducting small school libraries; classification of books, cataloging, the dictionary, catalog, reference books, and school libraries.

All quarters. No credit. Miss Barton.

Lib. Sci. 10. Library Administration. Designed to teach the administration of library for the elementary and junior high school. Classification, cataloging, mending, binding, and reference work.

Winter and summer quarters. Two credits. Mr. Blair.

Lib. Sci. 101. The Children's Library. Consideration of such topics as: The authors and illustrators of children's books, the physical make-up of children's books, types of children's literature, the selection of books for children's libraries, literature suitable for children according to age, children's magazines, reference books, visual material, care and cataloging of books, ways of developing the child's interest in different types of books, the introduction of new books.

Prerequisites: Library Science 1, Laboratory Schools 104, 105, or 106, and the consent of the instructor. All quarters. Three credits. Mrs. Haas.

MATHEMATICS

DR. FREEMAN, *Department Head*

DR. BOTSFORD, *Major Adviser*

DR. DAHLSTROM

The requirements for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such charges should be approved in writing by the Major Adviser.

Students who have not had solid geometry or third semester algebra in high school will be required to make up the deficiency by taking the subjects as electives.

The choices indicated below are limited by prerequisites, which should be carefully noted.

Major

Choice of 35 credits:

Math. 54	College Algebra	5 credits
Math. 55	Trigonometry	5 credits
Math. 56	Analytical Geometry	5 credits
Math. 102	Mathematics of Investment.....	3 credits
Math. 106	Spherical Trigonometry.....	3 credits
Math. 107	Advanced Analytics.....	2 credits
Math. 110, 111, 112	Calculus	15 credits

First Minor

Choice of 20 credits in courses required for the completion of the above major.

Second Minor

Choice of 12 credits in courses required for the completion of the above first minor.

Math. A. Sub-Freshman Mathematics. This course is required of all students unable to show arithmetical proficiency.

Winter and spring quarters. Four recitations a week. No credits.

Math. 3. Solid Geometry.

Prerequisite: A year's work each in plane geometry and algebra. Winter quarter. Four or five credits. Dr. Botsford.

Math. 4. Advanced Algebra. This course is given for those students who have not had three semesters of high school algebra. Recommended to students intending to take more mathematics and science and who need a review of high school algebra.

Fall quarter. Five credits. Dr. Dahlstrom.

Math. 54. College Algebra. Progression; arithmetic and geometric series; complex numbers; mathematical induction; solution of equations by approximation; etc.

Fall quarter. Five credits. Dr. Botsford.

Math. 55. Trigonometry. Elementary theory of trigonometric functions. Solution of the triangle.

Winter quarter. Five credits. Dr. Dahlstrom.

Math. 56. Analytical Geometry. Study of straight line, conic sections, and other algebraic curves.

Prerequisite: Math. 55. Spring quarter. Five credits. Dr. Dahlstrom.

Math. 102. Mathematics of Investment. Interest and annuities; sinking funds, bonds, investments; capitalization, amortization.

Winter and summer quarters. Three credits. Dr. Botsford.

Math. 106. Spherical Trigonometry. Application of trigonometry to the surface of a sphere, as used in astronomy, navigation, and surveying.

Prerequisite: Math. 55. Spring quarter. Three credits. Dr. Botsford.

Math. 107. Advanced Analytics. Consideration of advanced analytical methods; analytical geometry of three dimensions.

Prerequisite: *Math. 56.* Fall quarter. Two credits. Dr. Botsford.

Math. 110, 111, 112. Calculus. Differential and integral calculus. A continuous course that must be taken in sequence.

Prerequisites: *Math. 54, 55, 56.* Fall, winter and spring quarters. Five credits a quarter. Dr. Botsford.

MODERN LANGUAGES

DR. TIEJE, *Department Head and Adviser*

MRS. BROWN, MISS DICKINSON

No credit is given for less than three quarters of work in a foreign language.

First Minor in Modern Languages

Six quarters of work in one foreign language..... 21 credits

Second Minor in Modern Languages

Three quarters of work in one foreign language..... 12 credits

French

Fr. 1, 2, 3. First Year French. Grammar, composition, reading of simple texts. Students must begin work in the fall quarter and continue it throughout the year.

Fall, winter and spring quarters. Four credits a quarter. Miss Dickinson.

Fr. 4, 5, 6. Second Year French. Further study of syntax, composition, rapid reading of texts. The course must be begun in the fall quarter and continued throughout the year.

Prerequisites: *Three quarters or two semester of French.* Fall, winter and spring quarters. Three credits a quarter. Miss Dickinson.

German

Ger. 1, 2, 3. First Year German. Grammar, composition, reading of simple texts. Students must begin work in the fall quarter and continue it throughout the year.

Fall, winter and spring quarters. Four credits a quarter.
Mrs. Brown.

Ger. 4, 5, 6. Second Year German. A rapid review of syntax, reading of magazines, newspapers and texts. To be taken consecutively beginning with the fall quarter.

Fall, winter and spring quarters. Three credits a quarter.
Mrs. Brown.

MUSIC

Students majoring in Music are advised to use music also as a second minor. The "Second Minor for Music Majors" is outlined below.

Students planning a Major in Music for three-year certification are advised to follow as closely as possible the requirements listed under the first minor outlined below.

The major adviser should be consulted not later than the beginning of the sophomore year.

Major

Mus. 18	Voice	3 credits
	Individual Instrumental Instruction.....	3 credits
	Class Instruction, Wind or Stringed Instruments	
	or Voice	1 credit
	Ensemble or Individual Instruction.....	5 credits
Mus. 51	Music Appreciation—Freshmen.....	2 credits
Mus. 52	History of Music I—Freshmen.....	2 credits
Mus. 53	History of Music II—Freshmen.....	2 credits
Mus. 58	Harmony I—Sophomores.....	2 credits
Mus. 59	Harmony II—Sophomores.....	2 credits
Mus. 101	Elementary School Music—Sophomores.....	3 credits
Mus. 103	Junior High School Music—Sophomores.....	3 credits
Mus. 114	Sight Singing and Dictation—Juniors.....	3 credits
	Choice of:	
	Mus. 120 Conducting and Orchestration—Juniors }	
	Mus. 125 Choral Conducting—Seniors..... }	2 credits
Mus. 127	School Music Problems—Seniors.....	3 credits
	Total	37 credits

First Minor

Mus. 18	Voice	2	credits
	Individual Instrumental Instruction.....	1	credit
	Class Instruction, Wind or Stringed Instruments or Voice	1	credit
	Ensemble or Individual Instruction.....	2	credits
Mus. 51	Music Appreciation—Freshmen.....	2	credits
Mus. 52	History of Music I—Freshmen.....	2	credits
Mus. 58	Harmony I—Sophomores.....	2	credits
Choice of:			
	Mus. 101 Elementary School Music—Sophomores. }	3	credits
	Mus. 103 Junior High School Music—Sophomores }		
Mus. 114	Sight Singing and Dictation—Juniors.....	3	credits
Choice of:			
	Mus. 121 Orchestra and Band Technique—Juniors }	2	credits
	Mus. 125 Choral Conducting—Seniors..... }		
Total		20	credits

Second Minor

(For non-music majors)

Choice of 12 credits in courses required for the completion of the above first minor.

Second Minor for Music Majors

	Ensemble or Additional Individual Instruction.....	2	credits
Mus. 60	Harmony III—Sophomores.....	2	credits
Mus. 121	Orchestra and Band Technique—Juniors.....	2	credits
Choice of:			
	Mus. 120 Conducting and Orchestration—Juniors }	2	credits
	Mus. 125 Choral Conducting—Seniors..... }		
Mus. 129	Music Psychology and Measurements— Seniors	2	credits
Mus. 131	Creative Music for Children—Seniors.....	2	credits
Total		12	credits

Theory and Music Education

Mus. 1. Music Fundamentals. Structural elements of music. Keys and scales in major and minor modes. Rhythmic problems. Sight-reading of simple unison and part-songs. Introduction to music appreciation.

Note: Music tests are given at the beginning of each quarter. Those in the upper twenty per cent are excused from this course.

Fall, winter, and spring quarters. Four credits. Miss Lawton.

Mus. 51. Music Appreciation. The fundamental elements of music and their manifestation in vocal and instrumental music. Memorization of principal themes from the works of great composers.

Fall, winter, and summer quarters. Two credits. Miss Lawton.

Mus. 52. History of Music I. The development of music from primitive times to the beginning of the nineteenth century. Phonograph records illustrating different periods of musical development are utilized.

Prerequisite: Music 51. Winter, spring, and summer quarters. Two credits. Miss Lawton.

Mus. 53. History of Music II. Survey of music in the 19th and early 20th centuries. Important composers. Modern developments in music.

Prerequisite: Music 52. Fall, spring, and summer quarters. Three credits. Miss Lawton.

Mus. 58. Harmony I. The harmonization of melodies and basses in major and minor using the principal triads and their inversions and chords of the dominant-seventh.

Prerequisite: Music 1. All quarters. Two credits. Mr. Dayton.

Mus. 59. Harmony II. Inversions of the dominant seventh chord. Secondary triads and seventh chords. Modulation.

Prerequisite: Music 58. Winter, spring, and summer quarters. Two credits. Mr. Dayton.

Mus. 60. Harmony III. Extended modulation. Secondary sevenths and their inversions. Dominant ninth. Altered chords. Original composition.

Prerequisite: Music 59. Spring and summer quarters or by arrangement. Two credits. Mr. Dayton.

Mus. 101. Elementary School Music. Methods of directing music instruction in the first six grades. The rote song, child voice, unmusical children, rhythmic expression, notation, music reading, listening lessons, tonal and rhythmic problems, part-singing.

Prerequisite: Music 1. Fall, spring, and summer quarters. Three credits. Miss Goodsell.

Mus. 103. Junior High School Music. The place of music in adolescent development. The changing voice, testing and classification of voices, selection of materials for glee clubs, orchestras and bands, operetta production, concerts, assemblies.

Prerequisite: Music 1. Winter and summer quarters. Three credits. Mr. Rowles.

Mus. 105. Rural School Music. A practical study of music in rural schools and communities. Integration of music with other school activities. Development of music in the community.

Spring and summer quarters. Two credits. Mr. Rowles.

Mus. 109. Student Teaching in Music. Teaching in the Laboratory School or other schools under supervision is required of music majors.

All quarters. Three credits. Miss Goodsell.

Mus. 114. Sight Singing and Dictation. Sight-reading of melodies and two-part songs. Melodic dictation in major and minor keys with varied rhythmic and tonal patterns.

Prerequisite: Music 58. Fall and summer quarters. Three credits. Mr. Rowles.

Mus. 120. Conducting and Orchestration. Technique of conducting. Practical experience afforded with school orchestra. Study of orchestral instruments and their scoring for orchestra. Arrangement of small compositions for various combinations of instruments.

Prerequisite: Music 58. Winter and summer quarters. Two credits. Mr. Barr.

Mus. 121. Orchestra and Band Technique. Organization and development of instrumental work in the schools. Rehearsal and training procedures demonstrated with members of class for a playing group. Individual experience in directing. Either previous or concurrent instruction on some wind or stringed instrument is required of all members of the class. Instruments may be rented. Outside practice required.

Spring and summer quarters. Two credits. Mr. Barr.

Mus. 123. Violin Methods. Principles of violin playing as applied to teaching. Examination of modern materials

and methods. Course open to violin students having reasonable proficiency as performers. To be arranged with the violin instructor.

Summer quarter, unless specially arranged. One credit. Miss Lawton.

Mus. 125. Choral Conducting. Principles of good vocal production and interpretation. Problems concerning the organization, rehearsal and conducting of choral groups in the public schools. Practical experience afforded in conducting school chorus or choir.

Prerequisite: Music 58. Fall and summer quarters. Two credits. Mr. Rowles.

Mus. 127. School Music Problems (formerly "Music Supervision"). History and principles of school music teaching. Various aspects of school music as carried on by classroom and special music teachers. Comparison of standard music materials for all grades. Open only to advanced students who have had teaching experience.

Prerequisite: Music 101 or 103. Winter and summer quarters. Three credits. Miss Goodsell.

Mus. 129. Music Psychology and Measurements. The study of individual differences of musical talent. Evaluation of available testing materials with special attention to the needs of music teachers.

Prerequisite: Music 101 or 103. Spring and summer quarters. Two credits. Mr. Barr.

Mus. 130. Modern Music. Significant music by composers since 1900 showing modern tendencies and innovations.

Prerequisite: Music 53. Summer quarter. Two credits. Miss Lawton.

Mus. 131. Creative Music for Children. How to encourage the child's inherent gift for melodic and rhythmic expression. Creative interpretation of music through composing songs, making and playing of musical instruments.

Prerequisites: Music 59 and 101. Summer quarter. Two credits. Miss Goodsell.

Mus. 8. Chorus Class. Beginning choral training for

mixed voices. Recommended for freshmen and sophomores. Two periods a week.

Prerequisite: Music 1. Fall and winter quarters. One credit. Mr. Rowles.

Ensemble Music

Mus. 9. Women's Glee Club. Music for three-part women's voices. Two periods a week.

Fall, winter, or spring quarters. One credit. Miss Goodsell.

Mus. 10. College Chorus. Mixed voices. Preparation of unaccompanied choral numbers, oratorio, cantata or operetta as may be determined by the director. Recommended for sophomores and juniors. Two periods a week.

Prerequisite: Music 8 or proven ability. Fall, winter, and summer quarters. One credit. Mr. Rowles.

Mus. 11. College Band. Music for assemblies and athletic events. Four one-hour rehearsals a week.

All quarters. Two credits. Mr. Barr.

Mus. 12. String Ensemble. Music for stringed instruments. Two hours a week.

Winter and spring quarters. One credit. Miss Lawton.

Mus. 13. A Capella Choir. Unaccompanied singing for mixed voices. Four periods a week. Concert tours are made in the fall and spring quarters.

Prerequisite: Music 10 or proven ability. Fall, winter, and spring quarters. Two credits. Mr. Rowles.

Mus. 14. College Orchestra. Playing of standard orchestral numbers. Two one-hour rehearsals a week.

All quarters. One credit. Mr. Barr.

Mus. 15. Chamber Music. Music for different combinations of stringed and wind instruments. By special arrangement with instructors.

All quarters. One credit. Miss Lawton and Mr. Barr.

Applied Music

Mus. 16. Piano. Beginners will not be given credit until after one quarter of satisfactory progress has been made.

All quarters. One or two credits. Mr. Dayton.

Mus. 17. Stringed Instruments. (a) Violin; (b) Viola; (c) Violoncello; (d) Doublebass. Beginners will not be given credit until after one quarter of satisfactory progress has been made in either individual or class lessons.

All quarters. One or two credits. Miss Lawton.

Mus. 18. Voice.

All quarters. One or two credits. Mrs. Dayton.

Mus. 19. Organ. Beginners must have had adequate piano training before taking organ lessons for credit.

All quarters. One or two credits. Mr. Barr.

Mus. 20. Wind Instruments. Beginners must complete one quarter of class wind instruments before taking individual lessons for credit.

All quarters. One or two credits. Mr. Barr.

Mus. 27. Class Stringed Instruments. Recommended for beginners on stringed instruments. One hour a week.

All quarters. One-half credit. Miss Lawton.

Mus. 28. Class Voice. Recommended for beginners in voice training. One hour a week.

All quarters. One-half credit. Mr. Rowles.

Mus. 30. Class Wind Instruments. Recommended for beginners on wind instruments. One hour a week.

All quarters. One-half credit. Mr. Barr.

Fees and Credits for One Quarter of Applied Music

One private half-hour lesson a week—1 credit.....	\$15.00
Two private half-hour lessons a week—2 credits.....	30.00
One class lesson a week for one hour—½ credit.....	5.00
Piano or Voice Practice Rooms for one hour daily.....	3.00
Piano or Voice Practice Rooms for two hours daily.....	5.00
Instrumental Practice Rooms for one hour daily.....	2.00
Pipe-organ practice in auditorium an hour.....	.20

PHYSICAL AND HEALTH EDUCATION FOR MEN

MR. WOODWARD, *Department Head and Major Adviser*

MISS DAVIDSON, MISS DUSTIN, MISS PORTER, MR. REESE

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major

P. E. 117	Football Coaching	Freshmen	2 credits
P. E. 119	Track Coaching.....	Freshmen	2 credits
P. E. 118	Basketball Coaching	Sophomores	2 credits
P. E. 126	Playground and Community Recreation	Sophomores	2 credits
Chem. 51	General Chemistry	Sophomores	5 credits
P. E. 13	Clogging	Juniors	½ credit
P. E. 114	Physical Education Methods.....	Juniors	3 credits
P. E. 125	Physiology	Juniors	5 credits
P. E. 122	First Aid and Athletic Injuries...	Seniors	2 credits
P. E. 123	Baseball Coaching.....	Seniors	2 credits
P. E. 124	Organization and Administration of Physical Education.....	Seniors	4 credits
P. E. 128	Individual Gymnastics	Seniors	3 credits
P. E. 129	Methods and Materials of Health Education	Seniors	3 credits
Total			35½ credits

First Minor

P. E. 114	P. E. Methods.....		3 credits
P. E. 117	Football Coaching		2 credits
P. E. 118	Basketball Coaching		2 credits
P. E. 119	Track Coaching		2 credits
P. E. 122	First Aid and Athletic Injuries.....		2 credits
P. E. 123	Baseball Coaching		2 credits
P. E. 124	Organization and Administration of P. E....		4 credits
P. E. 126	Playground Organization		2 credits
P. E. 129	Methods and Materials of Health Education		3 credits
Total			22 credits

Second Minor

Choice of 12 credits in courses required for the completion of the above first minor.

P. E. 1. Health Fundamentals. Conservation and promotion of health in the individual, home, and community. Principles of healthful living. Recognition of deviations from normal health. Physiological facts related to problems of individual adjustment. Health consciousness in personal and community matters.

All quarters. Three credits. Miss Davidson.

P. E. 13. Physical Education Activities. All students are required to take three years of work in activities.

All quarters. One-half credit per quarter. Staff.

An activity may be selected from the following:

- Badminton
- Basketball
- Baseball
- Boxing
- Boy Scout Leadership (see Biology 20)
- Clogging
- Football
- Games
- Golf
- Intramural Athletics
- Life Saving
- Playground Ball
- Soccer
- Swimming
- Touch Football
- Tennis
- Track
- Tumbling
- Wrestling

Note: Students may not earn more than one-half credit in P. E. Activities (P. E. 13) in any one quarter. One quarter of P. E. Activities (P. E. 13) must be in swimming.

P. E. 13. Swimming. Methods of teaching beginners, instruction in the different strokes, and methods of rescuing and resuscitation.

All quarters. One-half credit. Mr. Woodward, Mr. Reese.

P. E. 16. Corrective Work. Classes and individual work arranged according to needs.

All quarters. One-half credit. Mr. Woodward.

P. E. 102. Personal Hygiene. The study of such topics as health ideals, values and attitudes; the biological basis of life; the nervous system, physical health of the individual.

Prerequisite: P. E. 1. Fall, spring, and summer quarters. Two credits. Miss Davidson.

P. E. 114. Physical Education Methods. Methods and educational values of systematic physical education as adapted to primary, intermediate, and junior high school grades.

Fall and winter quarters. Three credits. Mr. Woodward.

P. E. 117. Football Coaching. The theory and practice of football fundamentals; punting, drop-kicking, place-kicking, kick-off, passing, tackling, catching punts, blocking, interference; offensive and defensive styles of play, duties of each player on offense and defense, teamwork, generalship and strategy, plays and signals; conditioning of players, and rules.

Fall and summer quarters. Two credits. Mr. Reese.

P. E. 118. Basketball Coaching. Instruction in goal-throwing, passing, dribbling, pivoting, individual and team play, and the different styles of plays and rules.

Winter and summer quarters. Two credits. Mr. Reese.

P. E. 119. Track Coaching. Sprinting, distance-running, high and low hurdles, high and broad jump, pole vault, shot-putting, discus and javelin-throwing; rules, management of meets, the diet and conditioning of men.

Spring and summer quarters. Two credits. Mr. Reese.

P. E. 122. First Aid and Athletic Injuries. This course includes practice in the use of various kinds of bandages, dressings, antiseptics, disinfectants, etc. It aims to give teachers knowledge and practical skill in rendering aid and treatment in case of emergencies.

Fall and winter quarters. Two credits. Mr. Reese.

P. E. 123. Baseball Coaching. This course includes instruction in pitching and pitching strategy; batting and base-

running; the correct methods of fielding each position; team play, field work, and rules.

Spring and summer quarters. Two credits. Mr. Woodward.

P. E. 124. Organization and Administration of Physical Education. Administration problems in physical education including intramural athletics, class work, interschool athletics, programs of sports, methods of organizing competition, management of meets, and similar problems.

Prerequisite: P. E. 114. Fall, spring, and summer quarters. Four credits. Mr. Woodward.

P. E. 125. Physiology. A study of cellular elements and tissues followed by thorough consideration of the digestive, respiratory, circulatory, and nervous systems. Special emphasis on metabolism, internal and external secretions, and excretions.

Prerequisite: P. E. 1. Fall, spring, and summer quarters. Five credits. Miss Davidson.

P. E. 126. Playground and Community Recreation. Organization, equipment, management, and supervision of playgrounds; instruction in games and other activities.

Prerequisite: P. E. 114. Spring and summer quarters. Two credits. Mr. Woodward.

P. E. 127. Student Teaching in Physical Education.

Prerequisite: P. E. 114. All quarters. One credit. Staff.

P. E. 128. Individual Gymnastics. The study of abnormal conditions that frequently occur; corrective exercises for the most common defects.

Prerequisite: P. E. 125. Winter and summer quarters. Three credits. Mr. Woodward.

P. E. 129. Methods and Materials of Health Education. This course takes up various methods and devices used in the Elementary grades of the school. Courses of study of outstanding school systems that have attracted attention because of their work in health education will be studied and com-

pared. The problem of the health of the teacher, control of contagion, etc., are other features of this course.

Prerequisite: P. E. 1. Fall, spring, and summer quarters. Three credits. Miss Davidson.

P. E. 130. History of Nursing. Nursing from the earliest times. Traditions of nursing as a profession. Survey of the present field of nursing and its problems.

Spring quarter. Two credits. Miss Craney.

P. E. 135. Advanced Physiology. A thorough consideration of the digestive, respiratory, circulatory, and genito-urinary systems. Internal and external secretions and excretions. Emphasis on practical laboratory experiments and demonstrations.

Prerequisite: P. E. 125. Winter and summer quarters. Five credits. Miss Davidson.

PHYSICAL AND HEALTH EDUCATION FOR WOMEN

MR. WOODWARD, *Department Head and Major Adviser*

MISS DAVIDSON, MISS DUSTIN, MISS PORTER

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major

P. E. 109	Primary P. E. Methods.....	Freshmen	3 credits
P. E. 108	Basketball Coaching	Sophomores	1 credit
P. E. 110	Intermediate P. E. Methods.....	Sophomores	3 credits
P. E. 126	Playground and Community Recreation	Sophomores	2 credits
Chem. 51	General Chemistry	Sophomores	5 credits
P. E. 105	Advanced Folk Dancing.....	Juniors	1 credit
P. E. 111	Junior High P. E. Methods.....	Juniors	3 credits
P. E. 125	Physiology	Juniors	5 credits
P. E. 121	First Aid and Nursing.....	Seniors	2 credits
P. E. 124	Organization and Administration of P. E.....	Seniors	4 credits
P. E. 128	Individual Gymnastics.....	Seniors	3 credits
P. E. 129	Methods and Materials of Health Education	Seniors	3 credits
Total			35 credits

First Minor

P. E. 105	Advanced Folk Dancing.....	1 credit
P. E. 109	Primary P. E. Methods.....	3 credits
P. E. 110	Intermediate P. E. Methods.....	3 credits
P. E. 111	Junior High P. E. Methods.....	3 credits
P. E. 121	First Aid and Nursing.....	2 credits
P. E. 124	Organization and Administration of P. E....	4 credits
P. E. 126	Playground Organization	2 credits
P. E. 129	Methods and Materials of Health Education	3 credits
Total		21 credits

Second Minor

Choice of 12 credits in courses required for the completion of the above first minor.

P. E. 1. Health Fundamentals. Conservation and promotion of health in the individual, home, and community. Principles of healthful living. Recognition of deviations from normal health. Physiological facts related to problems of individual adjustment. Health consciousness in personal and community matters.

All quarters. Three credits. Miss Davidson.

P. E. 4. Physical Education Activities. All students are required to take three years of work in activities.

All quarters. One-half credit a quarter. Staff.

An activity may be selected from the following:

- Archery
- Badminton
- Basketball
- Clogging
- Golf
- Hockey
- Jollyball
- Life Saving
- Natural Dancing
- Playground Ball
- Simple folk dances and games
- Soccer
- Swimming (beginning, intermediate, advanced)
- Tennis
- Track
- Volleyball

Note: Students may not earn more than one-half credit in P. E. Activities (P. E. 4) in any one quarter.

One quarter of P. E. Activities (P. E. 4) must be in swimming.

Hiking may be selected as a non-credit activity for Yep Kanum or "W" points.

P. E. 105. Advanced Folk Dancing.

Prerequisite: P. E. 4. Simple Folk Dances and Games. Spring and summer quarters. One credit. Miss Dustin.

P. E. 102. Personal Hygiene. The study of such topics as health ideals, values and attitudes; the biological basis of life; the nervous system; physical factors in normal mental life; the place of sex in the mental and physical health of the individual.

Prerequisite: P. E. 1. Fall, spring, and summer quarters. Two credits. Miss Davidson.

P. E. 108. Basketball Coaching. Fundamentals of coaching, refereeing, and interpretation of rules. Instruction and suggestion for the improvement of the biological, mental, social, and moral benefits of team games.

Prerequisite: Sophomore standing. Winter quarter. One credit. Miss Dustin.

P. E. 109. Primary P. E. Methods. Dramatic and singing games. Rhythms and simple folk dances. Relaxation activities. Story plays.

Fall and summer quarters. Three credits. Miss Dustin.

P. E. 110. Intermediate P. E. Methods. Games, folk dances, and stunts.

Winter and summer quarters. Three credits. Miss Dustin.

P. E. 111. Junior High P. E. Methods. Organized games, folk dances and posture exercises.

Spring and summer quarters. Three credits. Miss Dustin.

P. E. 112. Corrective Work. Classes and individual work arranged according to needs.

All quarters. One-half credit. Staff.

P. E. 121. First Aid and Nursing. First aid for school-room and playground injuries. Nursing as an aid to the teacher in schoolroom and health problems.

Winter, spring, and summer quarters. Two credits. Miss Craney.

P. E. 123. Baseball Coaching. Pitching and pitching strategy; batting and baserunning; the correct methods of fielding each position; team play, field work, and rules.

Spring and summer quarters. Two credits. Mr. Woodward.

P. E. 124. Organization and Administration of Physical Education. A study of administration problems in physical education, including intramural athletics, class work, inter-school athletics, programs of sports, methods of organizing competition, management of meets, and similar problems.

Prerequisite: P. E. 109, 110, or 111. Fall, spring, and summer quarters. Four credits. Mr. Woodward.

P. E. 125. Physiology. A study of cellular elements and tissues followed by thorough consideration of the digestive, respiratory, circulatory, and nervous systems. Special emphasis on metabolism, internal and external secretions, and excretions.

Prerequisite: P. E. 1. Fall, spring, and summer quarters. Five credits. Miss Davidson.

P. E. 126. Playground and Community Recreation. Organization, equipment, management, and supervision of playgrounds; instruction in games and other activities.

Prerequisite: P. E. 109, 110, or 111. Spring and summer quarters. Two credits. Mr. Woodward.

P. E. 127. Student Teaching in Physical Education.

Prerequisite: P. E. 109, 110, or 111. All quarters. One credit. Staff.

P. E. 128. Individual Gymnastics. The study of abnormal conditions that frequently occur; corrective exercises for the most common defects.

Prerequisite: P. E. 125. Winter and summer quarters. Three credits. Mr. Woodward.

P. E. 129. Methods and Materials of Health Education.

This course takes up various methods and devices used in the elementary grades of the school. Courses of study of outstanding school systems that have attracted attention because of their work in health education will be studied and compared. The problem of the health of the teacher, control of contagion, etc., are other features of this course.

Prerequisite: P. E. 1. Fall, spring, and summer quarters. Three credits. Miss Davidson.

P. E. 130. History of Nursing. Nursing from the earliest times. Traditions of nursing as a profession. Survey of the present field of nursing and its problems.

Spring quarter. Two credits. Miss Craney.

P. E. 135. Advanced Physiology. A thorough consideration of the digestive, respiratory, circulatory, and genitourinary systems. Internal and external secretions and excretions. Emphasis on practical laboratory experiments and demonstrations.

Prerequisite: P. E. 125. Winter and summer quarters. Five credits. Miss Davidson.

PHYSICAL SCIENCES

DR. FREEMAN, *Department Head and Major Adviser*

DR. BOTSFORD, DR. DAHLSTROM, MR. TALLYN

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major in Physical Sciences

Chem. 51	General Chemistry	Freshmen	5 credits
Chem. 52	General Chemistry	Freshmen	5 credits
Chem. 53	General Chemistry	Freshmen	5 credits
Phys. 61	General Physics	Sophomores	5 credits
Phys. 62	General Physics	Sophomores	5 credits
Phys. 63	General Physics	Sophomores	5 credits
Choice of	.....		5 credits
Chem. 105	Qualitative Analysis		5 credits
Chem. 106	Qualitative Analysis		3 credits
Chem. 110	Quantitative Analysis		3 credits
Chem. 111	Quantitative Analysis		* 5 credits
Chem. 107	Organic Chemistry		5 credits
Chem. 108	Organic Chemistry		5 credits
Chem. 109	Organic Chemistry		5 credits
Geog. 110	Elements of Geology.....		3 or 5 credits
Total			35 credits

First Minor in Physical Sciences

Choice of 20 credits from General Chemistry and General Physics.

Second Minor in Physical Sciences

Choice of:

Chem. 51, 52, 53	General Chemisry	}	
Phys. 61, 62, 63	General Physics		
			..... 15 credits

Major in Chemistry

Thirty-five credits in Chemistry.

First Minor in Chemistry

Twenty credits in Chemistry.

Second Minor in Chemistry

Chem. 51, 52, 53.....	15 credits
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Physical Science

Phys. Sci. 3. Survey of the Physical Sciences. Required of all students except those taking a year of physics or chemistry. This course intends to give an understanding of the material universe and the relation of science to modern civilization. Considers briefly the essentials of different natural sciences and what constitutes scientific thinking and investigation. Provides material for elementary school science.

All quarters. Four credits. Dr. Botsford, Dr. Freeman, Dr. Dahlstrom.

Chemistry

Chem. 51, 52, 53. General Chemistry. The principles of chemistry and the properties of the elements and their more important compounds, with emphasis on the application of chemistry to industry and everyday life. These courses run in sequence and should be begun in the fall quarter. Three class periods and two double laboratory periods a week.

Fall, winter, spring and summer quarters. Five credits a quarter. Mr. Tallyn, Dr. Dahlstrom.

Chem. 105, 106. Qualitative Analysis. Review and extension of chemical principles, applicable to analysis; the systematic detection of metals and acid groups leading to the identification of simple inorganic substances. These courses run in sequence and should be begun in the fall quarter. Two class periods and two double laboratory periods a week.

Prerequisites: Chem. 51, 52, 53. Fall and winter quarters. Four credits a quarter. Mr. Tallyn.

Chem. 107, 108, 109. Organic Chemistry. An introduction to the chemistry of carbon compounds, including the principles of organic chemistry and methods of preparation and properties of the typical and more important organic compounds, with special attention to those of importance in industry and everyday life. These courses run in sequence and should be begun in the fall quarter. Three class periods and two triple laboratory periods a week.

Prerequisites: Chem. 51, 52, 53. Fall, winter, spring, and summer quarters. Five credits. Mr. Tallyn.

Chem. 110, 111. Quantitative Analysis. Gravimetric and volumetric analysis; stoichiometrical relations. These courses run in sequence and should be begun in the spring quarter. One class period and two double laboratory periods a week.

Prerequisites: Chem. 51, 52, 53. Spring and summer quarters. Four credits a quarter. Mr. Tallyn.

Physics

Phys. 51. Application of Physics. A general treatment of everyday applications of physical principles. This course is designed particularly for prospective teachers of science in the junior high school.

Summer quarter (1938). Five credits. Dr. Dahlstrom.

Phys. 101, 102, 103. General Physics. The laws of force and motion, properties of matter, nature and transformations of energy, and the fundamental physical phenomena of the universe with illustrations and application of the principles to familiar things. These courses run in sequence and should be begun in the fall quarter. Four class periods and one double laboratory period a week.

Fall, winter, and spring quarters. Five credits a quarter. Dr. Dahlstrom.

PSYCHOLOGY

DR. WILLIAMSON, *Department Head and Adviser*

DR. BARBER, MRS. BROWN, MR. HAWK, MISS LANE, MR. SHINKLE,
DEAN WALLACE

For first and second minors see Education.

Psych. 1. General Psychology. This course presents the subject matter of the science of psychology, its concepts, theories, and methods.

All quarters. Five credits. Mr. Shinkle, Dean Wallace.

Psych. 66. Educational Psychology. The nature of the individual and the principles of learning. Demonstration, experimentation, and objective measurement.

Prerequisite: Psych. 1. All quarters. Five credits. Mr. Hawk, Dean Wallace.

Psych. 105. Psychology of Childhood and Adolescence. A study of the development of human beings from infancy to maturity. Emphasis is given to the influence of home, school, and other environments upon the habit formation of the individual.

Prerequisites: Psych. 1 and junior or senior standing. Fall, winter, and summer quarters. Four credits. Dr. Barber.

Psych. 136. Social Psychology. A study of human conduct as influenced by group relationships. An analysis of fundamental concepts such as custom, suggestion, sympathy, emotion, cooperation, and conflict. Consideration of personality, individuality, and leadership in their relation to social progress.

Prerequisites: Psych. 1, Psych. 66. Spring quarter. Four credits. Dr. Barber.

Psych. 137. Mental Health. A study of the disordered personality in the interests of mental health. The nature, origin, detection, prevention, and treatment of mental maladjustments. The functional diseases. The typical mental health problems of the preschool child, the elementary school child, and the adolescent. The relation of mental illness to other social problems.

Prerequisite: Psych. 1. Fall and summer quarters. Three credits. Dean Wallace, Dr. Barber.

Psych. 138. Applied Psychology. A study of the applications of scientific psychology in business, in the professions, and in relation to personal efficiency.

Prerequisite: Psych. 1. Spring and summer quarters. Three credits. Dr. Barber. Not offered 1937-38.

Psych. 139. Clinical Psychology. Training and practice in the application of principles of psychology and mental hygiene. Types of individual testing and methods of dealing with exceptional and problem children.

Prerequisites: Psych. 1, Psych. 66. Summer quarter. Three credits. Dr. Barber.

Psych. 140. Abnormal Psychology. A study of the atypical mind, with particular reference to causes and explanations,

and to the relationships of abnormal phenomena to the normal. The development of concepts especially useful in dealing with exceptional and disordered cases. Practical case studies.

Prerequisites: Psych. 1, Psych. 66, Psych. 137. Winter quarter. Three credits. Dr. Barber.

Psych. 141. Psychology of the Pre-School Child. The social significance of child study. Characteristics of the pre-school and kindergarten child. Each student will make a careful observation of the development and personality of several children.

Prerequisites: Psych. 1, Psych. 66. Summer quarter. Two and one-half credits. Miss Lane.

Psych. 145. Contemporary Psychologies. A comparative study of the leading schools of psychological thought such as Introspective Psychology, Behaviorism, Gestalt Psychology, Psycho-Analysis, and others.

Summer quarter. Five credits. Dr. Williamson.

SOCIAL SCIENCE

MR. KINGSTON, *Department Head and Major Adviser*

MRS. BROWN, MR. COBB,* MR. GANGE, DEAN NELSON,

MISS OLSON, MR. TYLER

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Note: Under general academic requirement all students must take two Social Science courses. The two courses are to be chosen from the following list: Soc. Sci. 61, General Sociology; Soc. Sci. 62, Outlines of Economics; and Soc. Sci. 67, Introduction to Political Science. Of these courses the one which the student has not taken as an academic requirement must be made a part of the major or minor.

* Absent on leave, June, 1937-June, 1938.

Major

Soc. Sci. 61, 62, or 67.....	5 credits
Soc. Sci. 110 American Government	5 credits
Soc. Sci. 108 Economic Development of the United States	5 credits
Soc. Sci. 121 Social Origins	3 credits
Soc. Sci. 122 Problems of Society.....	4 credits
Soc. Sci. 123 Labor Relations	3 credits
Soc. Sci. 125 Recent Social Trends.....	3 credits
Soc. Sci. 127 Comparative Government	4 credits
Soc. Sci. 128 Current International Relations.....	3 credits
Total	35 credits

First Minor

Soc. Sci. 61, 62, or 67.....	5 credits
Soc. Sci. 110 American Government	5 credits
Choice of	10 credits
Soc. Sci. 108 Economic Development of U. S.	
Soc. Sci. 121 Social Origins	
Soc. Sci. 122 Problems of Society	
Soc. Sci. 123 Labor Relations	
Soc. Sci. 125 Recent Social Trends	
Soc. Sci. 127 Comparative Government	
Soc. Sci. 128 Current International Relations	
Total	20 credits

Second Minor

Choice of 12 credits in courses required for the completion of the above first minor.

Soc. Sci. 61. General Sociology. The nature of social relations. The influences that shape society; the perspective of social evolution; social control; social pathology.

All quarters. Five credits. Mr. Tyler.

Soc. Sci. 62. Outlines of Economics. The evolutions of economic society, the elementary concepts of society, business organization, money and credit, protection and free trade, rent, transportation, agricultural problems, public revenues, and expenditures.

All quarters. Five credits. Dean Nelson.

Soc. Sci. 67. Introduction to Political Science. A survey course to introduce the student to the nature and origin of

government; governmental structure and functions; with particular attention given to the federal and state constitutions.

All quarters. Five credits. Mr. Gange.

Soc. Sci. 108. Economic Development of the United States.

An introduction to commerce and industry, labor and currency systems, public lands, internal improvements, western migration, and the relation of the economic to the political history of the United States.

Spring quarter. Five credits. Mr. Tyler.

Soc. Sci. 110. American Government. The structure and working of the Federal and local forms of American government—state, county, and municipal.

Winter and summer quarters. Five credits. Mr. Tyler.

Soc. Sci. 121. Social Origins. Racial and social origins, growth of custom, the beginnings of civilization, a general view of the prehistoric period.

Fall and summer quarters. Three credits. Mr. Kingston.

Soc. Sci. 122. Social Problems. Problems arising through social maladjustments or individual differences—crime, the dependent and delinquent classes, preventive and remedial measures.

Fall quarter. Four credits. Mr. Tyler.

Soc. Sci. 123. Labor Relations. A study of labor organizations, problems, and legislation.

Winter and summer quarters. Three credits. Dean Nelson.

Soc. Sci. 125. Recent Social Trends. An examination of the social science fields in the light of the changing conditions of modern life.

Spring quarter. Three credits. Mr. Kingston.

Soc. Sci. 127. Comparative Government. A comparative study of the government and politics of the principal foreign nations with particular attention to Great Britain, France, Germany, Russia, and Italy.

Winter quarter. Four credits. Mr. Gange.

Soc. Sci. 128. Current International Relations. A survey of the most important political problems resulting from the World War; sources of conflict and suggested solutions. Special

emphasis upon the foreign policy of the United States in regard to Europe and the Far East.

Fall quarter. Three credits. Mr. Gange.

Handwriting, Typing, Shorthand

Soc. Sci. A. Sub-freshman Handwriting. Students whose writing tests score under 60 on the Ayers scale will be required to take a remedial course without credit. The instructor in handwriting will determine the practice and time needed by the student in order to bring his handwriting to the required standard.

All quarters. No credit. Mrs. Brown.

Soc. Sci. 115. The Teaching of Handwriting. An elective course for students who wish to teach and supervise handwriting. Those who desire to obtain penmanship certificates should take this course.

All quarters. Two credits. Mrs. Brown.

Soc. Sci. 116. Manuscript Writing. Particularly useful for primary teachers.

All quarters. Two credits. Mrs. Brown.

Soc. Sci. 14. Beginning Typing. Mastery of the keyboard and technique of typing. Touch method.

All quarters. Three credits.

Soc. Sci. 16. Advanced Typing. Development of greater speed and accuracy. Mimeographing and manifoldng.

All quarters. Three credits.

Soc. Sci. 20, 21, 22. Shorthand. A service course for teachers and students. Students must begin work in the fall quarter and continue it throughout the year.

Fall, winter, and spring quarters. Three credits a quarter.

SPEECH

DR. TIEJE, *Department Head and Major Adviser*

MISS DICKINSON, MISS HOLLINGSHEAD, MISS NEWELL

Students desiring to arrange a combined English-Speech major should, before registering, consult with the Head of the Department in order to arrange a satisfactory schedule.

The suggested outlines for majors and minors given below may be changed with the advice and consent of the Major Adviser. Such changes should be approved in writing by the Major Adviser.

Major in Speech

Note: See English 3.

Speech 101	Story telling	.....Sophomores	2 or 3 credits
or			
Speech 102	Oral Themes	.....Sophomores	3 credits
Speech 103	Corrective Speech	.....Sophomores	3 credits
Speech 104	Beginning Interpretative		
	Reading	.....Sophomores	3 credits
Speech 105	Creative Dramatics	.....Sophomores	3 credits
Speech 106	Play Production	.....Juniors	3 credits
Speech 107	Directing	.....Juniors	2 credits
Speech 108	Scene Design	.....Juniors	2 credits
Speech 110	Acting	.....Juniors	2 credits
Speech 113	Remedial Work in Corrective		
	Speech	.....Juniors	1 credit
Speech 109	Advanced Interpretative		
	Reading	.....Seniors	3 credits
Speech 112	Children's Theatre	.....Seniors	2 credits
Speech 114	Advanced Production		
	Problems	.....Seniors	3 credits
Eng. 151	Shakespeare	.....Seniors	4 credits
Eng. 156	Ibsen and Shaw		
Eng. 158	Modern Drama	.....Seniors	2 or 3 credits
or			
Eng. 159	Contemporary Drama	.....Seniors	2 or 3 credits
Total			35-37 credits

First Minor in Speech

Choice of 21 credits in courses required for the completion of the above major.

Second Minor in Speech

Choice of 12 credits in courses required for the completion of the above first minor.

Note: All students are required to take a voice test during their first quarter of residence, and to enrol in Speech 2 if so advised by the instructor.

None of the courses in Speech is given by correspondence.

Speech 1. Fundamentals of Speech. The general foundation of all work in speech.

All quarters. Four credits. Miss Hollingshead, Miss Newell.

Speech 2. Voice Production. Practice in correct breathing; development of resonance, melody and purity; remedial exercises for voice defects. This course or a statement from the instructor is a prerequisite for student teaching in the Laboratory School.

Prerequisite: The consent of the instructor. Fall quarter. One credit. Miss Hollingshead.

Speech 101. Story Telling. The art of story telling and a survey of the bibliography of the subject.

Prerequisite: Speech 1. Fall quarter. Three credits. Miss Dickinson.

Speech 102. Oral Themes. Organization of short speeches. A course for those desirous of ridding their speech of grammatical and syntactical errors.

Prerequisite: Speech 1. Winter quarter. Two credits. Miss Dickinson.

Speech 103. Corrective Speech. Analysis of the voice and speech defects; study of the speech mechanism; analysis and application of the international alphabet; testing and treatment of speech cases. Recommended to those preparing to teach in the primary grades.

Prerequisite: Speech 1 and consent of the instructor. Fall quarter. Three credits. Miss Hollingshead.

Speech 104. Beginning Interpretative Reading. Development of the voice and personality; study of dialects and char-

acter portrayal; analysis and interpretation of the types of literature; cutting and adapting for public school presentation.

Prerequisite: *Speech 1.* Spring quarter. Three credits. Miss Hollingshead, Miss Newell.

Speech 105. Creative Dramatics. Survey of the literature suitable for dramatization in the grades; technique of conducting formal dramatization; demonstration classes.

Prerequisite: *Speech 106 or the consent of the instructor.* Winter quarter. Three credits. Miss Hollingshead.

Speech 106. Play Production. Technical divisions of the stage; fundamentals of the stage design; color and lighting; standard equipment; make-up. Only one quarter may be counted toward graduation. Laboratory fee: fifty cents a quarter.

Prerequisite: *Speech 1.* Fall quarter. Three credits. Miss Newell.

Speech 107. Directing. Technique of directing a play; problems of the director; suggested list of plays. Each student is required to cast and direct a one-act play for class production.

Prerequisite: *Speech 106.* Fall quarter. Two credits. Miss Newell.

Speech 108. Scene Design. The designing, making, painting, and dressing of sets and drops, demonstrated on model stages.

Prerequisite: *Speech 106.* Winter quarter. Two credits. Miss Newell.

Speech 109. Advanced Interpretation. A continuation of Speech 104.

Prerequisite: *Speech 104.* Winter quarter. Three credits. Miss Hollingshead, Miss Newell.

Speech 110. Acting. The art of character interpretation on the stage.

Prerequisite: *Speech 106.* Spring quarter. Two credits. Miss Newell.

Speech 111. Practice in Story Telling.

Prerequisite: Speech 101. All quarters. Credits to be arranged. Miss Dickinson.

Speech 112. Children's Theatre. Production; direction; types of plays.

Prerequisites: Speech 105 and 106. Spring quarter. Two credits. Miss Hollingshead.

Speech 113. Remedial Work in Corrective Speech. Special work with children in the speech clinic in the Laboratory School.

Prerequisite: Speech 103. All quarters. Credits to be arranged. Miss Hollingshead.

Speech 114. Advanced Production Problems. Detailed instruction in the planning and construction of usable stage setting. Each student constructs a practical model to scale. Costuming; character make-up. Laboratory fee: fifty cents a quarter.

Prerequisites: Speech 106 and 108. Spring quarter. Three credits. Miss Newell.

Speech 151. Public Address. The forms of public discourse. Those entering the Martin Oratorical contest must enrol in this course.

Prerequisite: Speech 1. Winter quarter. Two credits. Miss Hollingshead.

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