

THE UNIVERSITY OF IDAHO
BULLETIN

VOL. XXVII

No. 1

CATALOG NUMBER

For 1931-1932 Sessions
With Announcements for 1932-1933



MOSCOW, IDAHO

APRIL, 1932

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THE UNIVERSITY OF IDAHO

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Divisions of the University

SENIOR COLLEGE OF LETTERS
AND SCIENCE

COLLEGE OF AGRICULTURE

COLLEGE OF ENGINEERING

COLLEGE OF LAW

SCHOOL OF MINES

SCHOOL OF FORESTRY

SCHOOL OF EDUCATION

SCHOOL OF BUSINESS ADMINIS-
TRATION

GRADUATE SCHOOL

UNIVERSITY JUNIOR COLLEGE

SOUTHERN BRANCH (Pocatello)

AGRICULTURAL EXPERIMENT
STATION

ENGINEERING EXPERIMENT
STATION

AGRICULTURAL AND HOME
ECONOMICS EXTENSION

NON-RESIDENT INSTRUCTION

SUMMER SCHOOL

Calendar of the University

FIRST SEMESTER

1932

Last Date for Mailing Permits to Register to New Students	Sept. 12
Freshman Days	Sept. 19, 20
Registration Days	Sept. 20, 21
All University Exercises Begin	Sept. 22
Last Date for Change of Study List or Curriculum	Oct. 6
Final Date for Removal of Conditions and Incompletes	Oct. 8
Commercial Dairying Course Begins	Oct. 31
Armistice Day (holiday)	Nov. 11
Midsemester Reports Due	Nov. 19
Thanksgiving Vacation	Nov. 24-27
Christmas Vacation Begins, Noon	Dec. 21

1933

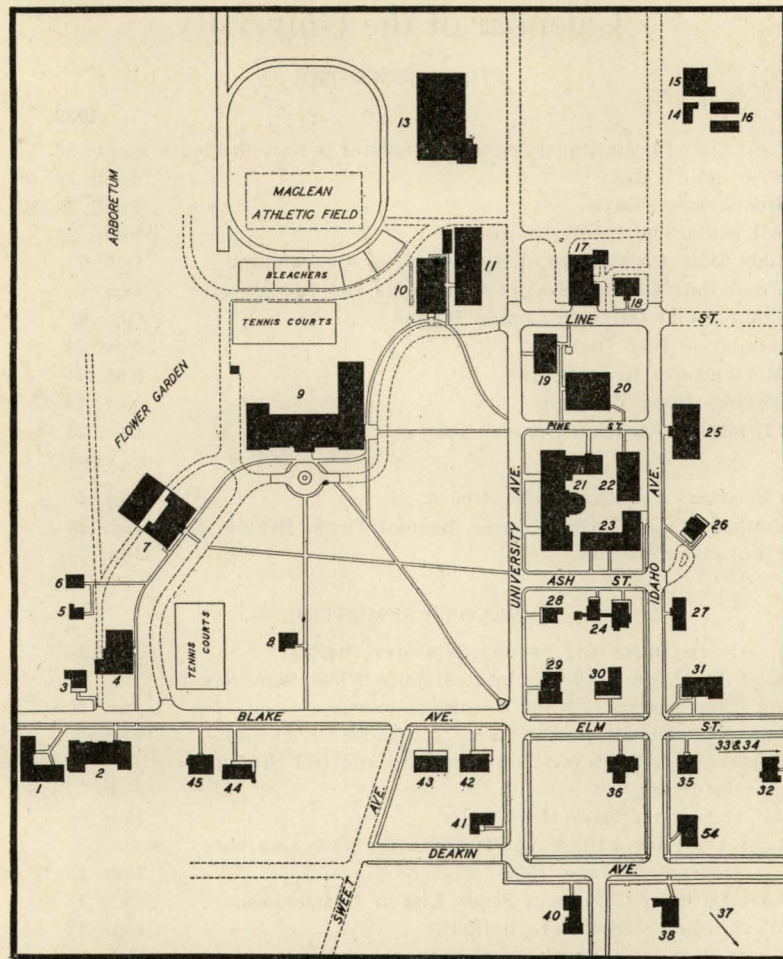
Christmas Vacation Ends, 8:00 A. M.	Jan. 4
Commercial Dairying Course, Second Term, Begins	Jan. 23
Final Examinations	Jan. 28- Feb. 4

SECOND SEMESTER

Pre-Registration for Second Semester Begins	Jan. 4
Last Date for Students in Residence First Semester to File Study Lists for Second Semester	Jan. 26
Last Date for Payment of Fees for Second Semester	Feb. 2
Registration Days for New Students and Old Students Returning	Feb. 3, 4 Feb. 6
All University Exercises Begin	Feb. 6
Last Date for Filing Applications for Baccalaureate Degrees in June, 1933	Feb. 15
Last Date for Change of Study List or Curriculum	Feb. 18
Washington's Birthday (holiday)	Feb. 22
Final Date for Removal of Conditions and Incompletes	Feb. 25
Last Date for Filing Applications for Advanced Degrees in June, 1933	Mar. 15
Commercial Dairying Course, Second Term, Ends	Apr. 2
Midsemester Reports Due	Apr. 5
Spring Vacation	Apr. 6-9
Memorial Day (holiday)	May 30
Final Examinations	June 3-10
Commencement	June 12

SUMMER SCHOOL

Summer School Begins	June 13
Summer School Ends	July 21



THE CAMPUS OF THE UNIVERSITY

(As Approached From the East, Which Is the Town Side) Part of the University Farm is Shown in the Upper Right Corner.

- | | | |
|-------------------------|------------------------|----------------------------|
| 1. Hays Hall | 17. Service Building | 32. Alpha Chi Omega |
| 2. Forney Hall | 18. Dairy Building | 33 & 34. Lambda Chi Alpha, |
| 3. Center Cottage | 19. U. Hut; Postoffice | Alpha Phi, and Delta |
| 4. Ridenbaugh Hall | 20. Metallurgical Lab. | Delta Delta |
| 5. Bartley Cottage | 21. Science Hall | 35. Delta Gamma |
| 6. Music Hall Annex | 22. Geology Building | 36. Phi Delta Theta |
| 7. Engineering Building | 23. Lindley Hall | 37. Tau Kappa Epsilon |
| 8. Music Hall | 24. Infirmary | 38. Pi Beta Phi |
| 9. Administration Bldg. | 25. Morrill Hall | 40. Sigma Alpha Epsilon |
| 10. Women's Gymnasium | 26. Beta Chi | 41. Kappa Alpha Theta |
| 11. Lewis Court | 27. Sigma Chi | 42. Delta Chi |
| 13. Memorial Gymnasium | 28. Senior Hall | 43. Kappa Sigma |
| 14. Storage Building | 29. Phi Gamma Delta | 44. Chi Alpha Pi |
| 15. Greenhouse | 30. Kappa Kappa Gamma | 45. Gamma Phi Beta |
| 16. Seed House | 31. Beta Theta Pi | 54. Alpha Tau Omega |

NOTE:—The L.D.S. Institute, corner of Deakin and University avenues, and the new Sigma Nu house, Elm street, are not shown on this map.

PART I
General Information

THE
GENERAL INFORMATION

THE UNIVERSITY OF IDAHO

The State of Idaho maintains the University of Idaho "for the training of her future citizens to their highest usefulness in private life and public service."

This, the Catalog Number of the University of Idaho Bulletin, is published to place before the people of the State material concerning the educational facilities provided by the various Schools and Colleges comprising the State University.

HISTORY AND GROWTH

THE University of Idaho was established in January, 1889, by an Act of the Fifteenth Territorial Legislature. Classes began in October, 1892, with an enrollment of fewer than fifty students.

Control of the University, together with all other public schools, is in the hands of the State Board of Education, and Board of Regents of the University of Idaho. This board consists of five members appointed by the Governor, with the State Superintendent of Public Instruction, ex-officio.

From its humble creation, before Idaho became a state, the University of Idaho has become one of the better known State Universities of the West. Its grand total enrollment has numbered more than 13,000 students. Nearly 4,000 bachelor's and master's degrees have been granted. In addition to instructing the youth of the State, the University has extended valuable technical and professional services to practically every community of the State and has reached thousands through Extension and Correspondence courses.

The University of Idaho is on the fully accredited list of the Association of American Universities; is an accredited member of the Northwest Association of Secondary and Higher Schools; is recognized by the American Association of University Women, the American Medical Association, the American Bar Association, and meets other standards as listed in the College Blue Book. Degrees and undergraduate credits of the University of Idaho are accepted by every University in the United States.

The University comprises 16 divisions, which will be found listed in detail in the front of this catalog. The University faculty numbers approximately 170. For a detailed statement of latest enrollment figures and a complete directory of faculty members see Parts VI and VII. Except for the Pharmacy degree, granted at the Southern Branch, all of the degree-granting divisions of the University are at the Main Campus at Moscow. The work of the Southern Branch, which is a junior college except in Pharmacy, parallels the first two years at the Main Campus, en-

abling students to complete their work at Moscow for degrees without loss of time.

In addition to the Main Campus at Moscow and Southern Branch at Pocatello, the University embraces agricultural experimental farms at Moscow, Sandpoint, Caldwell, Aberdeen, and Felt; agricultural experimental field laboratories at Boise, Twin Falls and Parma; agricultural and home economics extension offices in Boise, Pocatello, Burley, Rupert, and Moscow; extension service and cooperative field experimentation in nearly all counties; correspondence instruction in 162 separate courses; a Summer School at Moscow; and a wide range of public service touching all of the industries and professions of the State.

The physical plant of the University was valued at approximately \$2,140,000 in 1931, and that of the Southern Branch at approximately \$900,000. The University Campus and college farm embraces about 625 acres. Agricultural substation farms embrace an additional 750 acres. The Southern Branch Campus proper covers 25 acres, with 150 acres of undeveloped land owned by the University immediately adjacent. The University has a section of forest land about six miles from the Main Campus at Moscow which is used as a field laboratory.

Few universities have a more attractive campus than the University of Idaho. Its buildings offer an attractive architectural harmony. Grouped closely about the campus are 20 student-owned residences, 12 fraternities and 8 sororities. Many of these student homes are outstanding examples of attractive architecture.

The massive Administration Building is the center of the Campus. It houses all administrative offices, the College of Letters and Science, College of Law, Schools of Business Administration and Education, the University Library, and Auditorium. Other major buildings on the campus include Science Hall, Memorial Armory-Gymnasium, Women's Gymnasium, Engineering Buildings, Morrill Hall, Geology Building, Metallurgical Laboratory, Forney Hall and Hays Hall, women's residences; Lindley Hall and Ridenbaugh Hall, men's residences; Dairy Building; and more than a dozen buildings on the college farm.

The University Library consists of approximately 92,000 volumes. It is a designated depository and therefore receives all publications of the United States Government, of the Carnegie Institute of Washington, and other scientific societies. It also receives a large number of State publications and single-volume gifts. It receives regularly 500 of the leading periodicals. The list includes American and foreign publications, both general and technical. Most Idaho newspapers are sent free by the publishers and are filed in the magazine room for the use of the students.

All people of the State are welcome to use the University Library both for reference and reading.

EXPENSES

NO TUITION.—No student who has been a resident of the State for one year next preceding his admission shall be required to pay any fees for his tuition in the University, except in professional departments or for extra studies. Students not residents of the State of Idaho, who matriculate as undergraduates in a regular course, are required to pay a tuition fee of \$30 a semester in addition to fees and charges required from students resident in Idaho.

ANNUAL EXPENSES.—Expenditures of students, as reported by themselves, vary widely. Some spend twice as much as others. For items exclusive of clothing and railroad fare, a typical expenditure for a boy or girl living in a dormitory will be \$500 a year. Students living in the fraternity or sorority houses will spend more. Students not living on the campus report expenditures averaging about \$550 a year, including clothes. (Students with homes in Moscow were not included in this investigation.) Much depends on the habits and tastes of the student and on his source of money supply. The immediate financial requirement at the beginning of the year is between \$132 and \$146, as follows: Associated Students (one-half year), \$8.50; class dues (one-half year), 50c; health fee (one-half year), \$4; room (one-half year), \$36; room deposit, \$5; board (two weeks), \$12; general deposit, \$10; extra-curricular fee, \$5; laboratory, \$1 to \$15; books, \$25; incidentals \$25. Music students, and students from outside the state, will have additional fees as elsewhere described.

EMPLOYMENT.—A substantial percentage of students enrolled at the University earn either a part or all of their expenses by working during the summer or the college year. Work available during the regular session consists of janitorial service, waiting on table, clerking, book-keeping, secretarial service, house-work, and odd jobs. University officials cannot promise employment to prospective students. New students are urged to come prepared to meet the expenses of the first year. A few resourceful students will find incidental work, but they should not depend upon earning a large proportion of their expenses. The University is glad to assist deserving students in finding employment, and applications for positions should be made to the Proctor of Men.

***RATES IN UNIVERSITY RESIDENCES.**—Board is \$6 a week, and must be paid two weeks in advance. Students who room in University dormitories must also board there. Room rental is \$36

*The University reserves the right to raise or lower rates for board and room in university residences at any time upon reasonable notice.

a semester, payable in advance. A refund will be made only if the student moves from the dormitory within two weeks after the opening of college. A deposit of \$5 is required of each applicant for accommodations at the halls before reservation is effective. This amount should be sent to The Bursar, University of Idaho, Moscow. It will be held until the close of the school year as a guarantee deposit for the proper care of rooms and furnishings. All applications for rooms should be made direct to the Bursar. If detailed information is desired, letters will be referred to the persons in charge.

WOMEN'S RESIDENCES.—Three hundred young women can be housed by the University in the two women's dormitories—Mary E. Forney Hall and Gertrude L. Hays Hall. Rooms are arranged in suites for four and also in rooms for two occupants. Rooms are well lighted and heated and afford every comfort. Students are expected to provide for themselves the following articles: three pairs of sheets $1\frac{1}{2}$ by 3 yards; three pillow slips; a counterpane; a pillow; suitable bedding; towels; bureau covers; mattress pad; napkin ring; drinking glass for room; couch cover; and one small rug, approximately 5 by $2\frac{1}{2}$ feet in size. All articles should be plainly marked with the name of the owner. Much if not all of the laundry can be done in the halls, as splendid equipment is provided. A charge of \$1 a semester is asked for the upkeep of the laundries and use of irons. Napkins are provided and laundered at a cost of \$1.50 a semester. All residents of the halls are requested to have their names plainly marked on the tops of their trunks. Bedding should be sent by parcel post several days in advance, addressed to the owner in care of the hall to which she has been assigned. *Young women from out of town are required to live in University residences or sorority houses unless expressly permitted by the Dean of Women to earn board and room in approved homes.*

MEN'S RESIDENCES.—Lindley and Ridenbaugh Halls accommodate 230 men, and 30 additional can be housed in smaller cottages. These buildings are all heated from the central heating plant. Dining rooms in Lindley and Ridenbaugh Halls accommodate 325 boarders. Students are expected to provide their own bedding and room furnishings. See preceding paragraph for a suggested list of essentials. Application for a room may be made to the Proctor at any time.

Parents living in towns near enough to permit their sons and daughters to make frequent home visits are asked to cooperate with the University in discouraging such visits. Many students who so absent themselves are found to be doing unsatisfactory work.

*FEES

GENERAL DEPOSIT.—Each student is required, upon enrollment, to make a deposit of \$10 with the Bursar. Against this deposit will be charged any damage to University property for which the student is considered responsible. Such charges cover any breakage of laboratory equipment, damage or loss of library books, and shortage of military equipment. A fifty-cent deduction is made for examination blue books. Classes frequently vote to charge special assessments against the balance of this fund.

HEALTH FEE.—The University maintains an infirmary with a staff of experienced nurses. Each student pays a health fee of \$4 a semester, which entitles him to free clinical advice of the University physicians and to the privileges of the infirmary under certain restrictions.

LABORATORY FEES.—Persons enrolling in certain laboratory courses are required to pay a nominal sum for materials and equipment used.

A.S.U.I. FEE.—A fee of \$8.50 a semester is collected for the support of the various enterprises of the student body, known as the Associated Students of the University of Idaho. This entitles the student to a free copy of the semi-weekly student paper, the *Idaho Argonaut*, to admission to athletic contests, and to various other privileges. The A.S.U.I. also collects the class dues of fifty cents a semester.

EXTRA-CURRICULAR FEE.—An extra-curricular fee of \$5 a semester is charged to pay a part of the cost of providing and maintaining facilities for athletic, social, and other extra-curricular activities.

LATE FILING FEE.—A late filing fee of \$1 a day up to a maximum of \$10 will be charged those students in residence whose registration blanks are not filed between the dates specified in the pre-registration schedule for the second semester.

LATE REGISTRATION FEE.—Students whose registration is not completed on either of the two registration days in the first semester or before the specified date in the pre-registration procedure for the second semester, will be charged a late registration fee of \$3 for the first day; \$2 additional for the second day; and \$1 additional each day thereafter up to a maximum of \$10.

DIPLOMA FEE.—A diploma fee of \$5 is charged all applicants for a degree from the University.

*The University reserves the right to raise or lower fees at any time upon reasonable notice.

REFUNDS OF FEES

GENERAL FEES.—Students who for any reason withdraw from the University during the first two weeks of a semester may receive a refund of five-sixths of the general University fees paid for that semester. This will include non-resident tuition, health, extra-curricular, laboratory, and library fees. Application for this refund must be made to the Bursar at the time of withdrawal, and under no circumstances later than Saturday of the second week of the semester.

DORMITORY RENT.—To receive a refund of dormitory rent students must vacate their rooms within two weeks after the opening of college. If students occupy the rooms longer than this time dormitory rents are non-refundable.

MUSIC FEES.—Tuition fees for private instruction in applied music may, upon prompt application by the student withdrawing, be refunded according to the following schedule: during the first two weeks of a semester, five-sixths; during third and fourth weeks, two-thirds; fifth and sixth weeks, one-half; seventh and eighth weeks, one-third; ninth and tenth weeks, one-sixth. Application for this refund should be made to the Director of the Curricula in Music, who will be responsible for the approval of the application.

A.S.U.I. FEES are fixed by the Constitution of the Associated Students. No refunds are made except upon the order of the Graduate Manager, to whom application should be made.

GENERAL DEPOSIT.—The unused balance of the general deposit is refundable, provided withdrawal is in accord with the requirements of paragraph 22, under "Regulations," Part II.

CLASS DUES.—These are not University fees but are collected for the separate classes. They are held non-refundable.

SCHOLARSHIPS AND PRIZES

RHODES SCHOLARSHIP.—By the request of the late Cecil Rhodes, 32 scholarships at Oxford University are appropriated each year to students in the United States. For making the 32 appointments, the States of the Union are grouped into eight districts of six states each. In each State the committee of selection nominates from the candidates applying to it the two best men to appear before the district committee. Each district committee then selects from the 12 candidates so nominated not more than four to represent their states as Rhodes scholars at Oxford. State and District committees meet in December. Idaho is grouped with Washington, Oregon, Montana, Wyoming, and North Dakota. Each candidate must obtain the endorsement of the head of his college or university. He then should apply, not later than the middle of October, to the secretary of the committee of selection

of his state. The secretary for Idaho is Mr. C. G. Bowden of Boise. Further information may be obtained from Prof. E. E. Taylor, chairman of the University of Idaho Rhodes Scholarship Committee.

THE JEROME J. DAY SCHOLARSHIP.—Mr. Jerome J. Day of Moscow has established in the School of Mines a loan scholarship to be awarded each year to Seniors in the School of Mines who are graduates of Idaho high schools and who, in the opinion of a committee of three, Mr. Day, the President of the University, and the Dean of the School of Mines, are the most deserving applicants, as demonstrated by their college records. Under the terms of the scholarship, it will be possible for such students to borrow from the scholarship fund, during their Senior year, an amount not to exceed \$300. These loans are to run without interest until graduation and to bear interest at six per cent per annum from the date of graduation until repaid into the Day Scholarship Fund.

UNION PACIFIC SCHOLARSHIPS.—The Union Pacific Railway System offers a series of scholarships to members of boys' and girls' clubs in agriculture and home economics in counties traversed by Union Pacific lines. The winner in each county receives as a prize either \$100 to be applied toward a regular course in the College of Agriculture (or in Letters and Science in the case of a girl interested in Home Economics), or \$50 to be applied toward a winter short course. The scholarship also includes one free round-trip fare to the University, so far as the journey is over the lines of the Union Pacific. The Union Pacific also offers a similar prize open to competition by students engaged in Smith-Hughes high-school agriculture or home economics study in the county.

THE F. M. ROTHROCK SCHOLARSHIP FUND.—Mr. F. M. Rothrock of Spokane, Wash., has established in the College of Agriculture loan scholarship available to Juniors and Seniors in the College of Agriculture who are interested in Animal Husbandry. The scholarship fund will be awarded to the most deserving applicant as demonstrated by his school record. The scholarship loan fund is established by the proceeds from the sale of a purebred Shorthorn steer calf given by Mr. Rothrock each year for a definite time. This loan will run without interest until graduation and will bear interest at six per cent per annum from the time of the student's graduation until repaid into the Rothrock Scholarship Fund.

THE CHIPMAN CHEMICAL ENGINEERING COMPANY FELLOWSHIP.—The Chipman Chemical Engineering Company has established a research fellowship in the College of Agriculture, Department of Agronomy, for the purpose of conducting research in weed eradication. This fellowship carries an annual stipend of

\$1,200, and enables the candidate to secure his master's degree in two years. Candidates should have received their bachelor's degree from an agricultural college of recognized standing with a major in agronomy.

AMERICAN DRY MILK INSTITUTE FELLOWSHIP.—The American Dry Milk Institute, Inc., of Chicago, has granted a fellowship, not to exceed \$700, to the Department of Dairy Husbandry of the College of Agriculture. The purpose is to encourage research in the utilization of dried skim milk. Bachelor of Science graduates of land grant agricultural colleges are eligible for consideration. Ten months' time will be required and it will be possible, in addition to the research, to complete the other requirements for the degree of Master of Science in Agriculture within one school year.

BORAH DEBATE PRIZE.—In 1907 Senator William Edgar Borah established an annual debate prize of \$50, which is used in building up a special library unit known as the Borah Debate Library. In the books purchased each year are inscribed the names of the three intercollegiate debaters winning highest places for the year, together with the name of Senator Borah.

THE PHILO SHERMAN BENNETT PRIZE of \$35 is awarded annually for an essay on a subject dealing with "The Principles of Free Government." The specific title is announced each year. The competition is limited to students in American Government.

SCHOLARSHIP CUPS.—The Mary McClintock Upham Scholarship Cup (for women's groups) and the Burton L. French Scholarship Cup (for men's groups) are awarded to the groups, the majority of whose members live in the same house or hall, which attain the highest average of scholarship of all such groups. The cups are awarded at the beginning of each school year on a basis of the average grades attained during the previous school year. The cups are retained by the group for one year, and then re-awarded on the same basis as before. When any group has been awarded a cup three times, not necessarily consecutively, it comes into the permanent possession of the group.

THE ALPHA KAPPA PSI KEY is given each fall to the Junior man in the School of Business Administration who has made the highest scholastic record in his Sophomore year.

THE PHI CHI THETA KEY is awarded to a Junior woman in the School of Business Administration on the basis of excellence in scholarship, personality, and character.

ALPHA ZETA CUP is awarded each fall to the Sophomore student in the College of Agriculture who attains highest scholarship during his Freshman year.

THE SONS OF THE AMERICAN REVOLUTION TROPHY, for excellence in Early American History, is a handsome bust of Washington, designed by Bianchini. This is held for a year by the group house or hall whose representative presented the best thesis the previous year in the courses in American History. The winning student receives in addition a bronze medal from the society and has his name engraved on the pedestal of the bust.

FORESTRY TABLET.—Names of the four Forestry students of highest scholarship each year in the four classes are engraved on a bronze tablet placed in the Administration Building by Epsilon chapter of Xi Sigma Pi.

THE SIGMA TAU SCHOLARSHIP MEDAL is given each year by the Idaho chapter of Sigma Tau, to the Sophomore who in the preceding year has made the highest grades as a Freshman in the College of Engineering or the School of Mines.

HONORS.—In order to promote scholarship, the faculty adopted in 1907 a system of classified honors. Honors are of two kinds: (1) *Yearly Honors*, given at the close of each year and known as first-year honors, second-year honors, third-year honors, and fourth-year honors; and (2) *Final Honors*, based upon the work of the entire course. Final honors are given only to those who have performed the work of at least the Junior and Senior years in residence at the University of Idaho. They are divided into two groups known as Highest Honors and High Honors, respectively. To attain the former, a student must maintain an average of 5.666*; to attain the latter, an average of 5.333.

The yearly honor lists are published in September and the final honor list is published at commencement. The arrangement of names within groups is alphabetical.

(For the list of final honors of the year 1930-31 see Part VII of the catalog).

LOAN FUNDS

LOAN FUND OF STATE CLUB WOMEN.—In October, 1906, the Idaho State Federation of Women's Clubs established a scholarship fund for the University. Approximately \$10,000 is now available. This money is loaned to Junior and Senior students, on note security, and is to be returned with interest at six per cent per annum from the time the borrower leaves college. The applicant must also be recommended by a State Federation club and by his Dean. Students interested should apply to Mrs. James J. Gill, 706 Deakin Avenue, Moscow, or to Mrs. F. W. Gail, 623 Urquhart Avenue, Moscow.

*In figuring averages, each credit of grade "A" counts 6; each credit of grade "B" counts 5; "C" counts 4; "D" 3; and "F" (failure), counts 1.

FUNDS OF CIVIC ORGANIZATIONS.—In 1921, the Rotary Club of Moscow voted an annual contribution of \$100 to establish a fund to be loaned to worthy students, under supervision of the President of the University. The Moscow Chamber of Commerce likewise pledged \$100 a year. The Chambers of Commerce of Coeur d'Alene and Kellogg contributed \$100 each to this fund and the Wallace Chamber of Commerce, \$50.

FUNDS OF STUDENT ORGANIZATIONS.—Funds of civic organizations, above described, have been increased by the Associated Students to a sum of \$2,600, to which one per cent of proceeds from A.S.U.I. fees is added each semester. An additional \$675 of loan fund money has been accumulated from residues in treasuries of past classes and other student organizations.

KNIGHTS TEMPLAR EDUCATIONAL FOUNDATION.—This foundation is part of a national institution under the direction of a general administrative committee. In Idaho to date approximately \$17,000 has been loaned to students. The annual income of two or three thousand dollars is available under the Idaho Grand Commandery for Idaho students in the senior year at the University. Loans of from \$50 to \$200 are granted on honor, with interest at the rate of five per cent beginning at graduation. For blanks and further information inquire of Homer David, Moscow, or William Wallin, Pocatello.

VERNON P. FAWCETT MEMORIAL FUND.—A \$1,000 loan fund was established in 1921 by Mrs. W. H. Fawcett of Spokane in memory of her son, Vernon P. Fawcett, '14, who was drowned at Seaside, Ore., Aug. 15, 1921, while attempting to save the life of a young woman companion.

SURGICAL LOAN FUNDS.—A surgical loan fund of \$300 was established in 1922 by Dr. E. R. Edson of Seattle, for the use of students who might need financial assistance in providing for surgical treatment. In 1930 the State Board of Education established a similar fund of \$500.

FACULTY WOMEN'S FUND.—The Faculty Women's Club has provided a fund of \$300 to be loaned in cases of need arising from illness.

1931 EMERGENCY LOAN FUND.—A fund of \$7,175 was provided in the fall of 1931 by the Board of Regents of the University, Citizens of Moscow, and Faculty of the University to assist deserving students to remain in school during the present period of financial depression. Subscriptions to this fund were as follows: Citizens, \$2,375; Faculty, \$2,800; Regents, \$2,000.

STUDENT AFFAIRS

The Associated Students of the University of Idaho is an organization of the entire student body. It controls and directs student activities. These are under the control of a Graduate Manager, subject to the general supervision of the Executive Board of the Associated Students. In athletics, the University of Idaho is a member of the Pacific Coast Intercollegiate Conference. In debate and oratory the University is a member of the Pacific Coast Forensic League.

The Associated Women Students is an organization of all women students of the University, which seeks to regulate matters pertaining to the student life of its members which do not fall under the jurisdiction of the faculty, and to promote high standards of University life. Other women's organizations include the *Women's Athletic Association*; the *Women's "I" Club*, *Mortar Board* (senior women's national honor society); the *Spurs* (sophomore women's national service organization); *Daleth Teth Gimel* (women who reside outside the University halls and sorority houses); and the *Idaho Dames* (wives of students registered in the University).

Men's organizations include the *"I" Club* (athletic lettermen); *Silver Lance* (senior men's local honorary); *Blue Key* (junior and senior men's national service fraternity); *Intercollegiate Knights* (underclassmen's national service organization); *Tau Mem Aleph* (men who reside outside the University halls or fraternities).

Other organizations include the *Cosmopolitan Club* (foreign students); *The Filipino Club* (students from the Philippines); the *Associated Students of Lindley Hall*, *Associated Students of Ridenbaugh Hall*, *Associated Students of Forney Hall*, and *Associated Students of Hays Hall*, (students residing in these respective dormitories); *House Manager's Club*, (managers of group houses).

HONORARY, PROFESSIONAL AND DEPARTMENTAL

Chapters of *Phi Beta Kappa* and *Sigma Xi*, the foremost college honorary societies, are found at the University of Idaho, *Sigma Xi* having been founded in 1922 and *Phi Beta Kappa* in 1926. At the beginning or end of the Senior year, students who show evidence of scholarly tendency and future promise are chosen from the honor list of candidates for the Bachelor of Arts and Bachelor of Science degrees in the College of Letters and Science for membership in *Phi Beta Kappa*. Members of *Sigma Xi* are chosen from among Senior students who have given promise of future achievement in the field of science, and from among graduate students and faculty members on the completion of research

work of merit. Following is a list of other honorary, professional and departmental organizations at the University of Idaho:

LETTERS AND SCIENCE.—*Phi Upsilon Omicron*, (national home economics); *Sigma Delta Pi*, (national honorary Spanish); *Alpha Tau Delta*, (women's national honorary pre-nursing); *Delta Sigma Rho* (national honorary debating); *Sigma Alpha Iota* (women's national music); *Press Club* (men's journalism); *Theta Sigma* (women's journalism); *Idaho Chemistry Club* (chemistry majors); *The English Club* (fosters activities related to the work of the Department of English); *The Winged Helmet* (literary composition); *The Curtain* (acting, play-writing, or play production); *Home Economics Club* (affiliated with the American Home Economics Association and the State Federation of Women's Clubs); *The Pre-Medical Club* (pre-medical students); *The Attic Club* (art and architecture).

AGRICULTURE.—*Alpha Zeta* (national honorary agricultural); *The Agricultural Club* (students of agriculture).

ENGINEERING.—*Sigma Tau* (national honorary engineering, with members also selected from the School of Mines); *The Associated Engineers of the University of Idaho* (includes student chapters of the American Institute of Electrical Engineers, the American Society of Mechanical Engineers, and the American Society of Civil Engineers).

LAW.—*The Bench and Bar Association* (law students); *The Pre-Legal Association* (students preparing to enter the College of Law); *Phi Alpha Delta* (national professional legal).

MINES.—*Sigma Gamma Epsilon* (national professional for geology, mining, and metallurgy); *The Associated Miners* (affiliated with the American Institute of Mining Engineers).

FORESTRY.—*Xi Sigma Pi* (national honorary forestry); *The Associated Foresters* (students and faculty of the School of Forestry).

EDUCATION.—*Pi Lambda Theta* (women's national honorary); *Kappa Delta Pi* (men's national honorary).

BUSINESS.—*Alpha Kappa Psi* (men's national professional); *Phi Chi Theta* (women's honorary); *Associated Business Students* (students in business).

MUSIC.—*University Symphony Orchestra*; *Treble Clef Club* (women's glee club); *The Idaho Vandaleers* (mixed chorus); *University Chorus*, *University String Quartet*, and the *Vandalettes* (women's double sextette). The *Cadet Military Band* is a part of the Reserve Officer's Training Corps. The *University Pep Band* is under the control of the Associated Students.

MILITARY.—*Scabbard and Blade* (national honorary military fraternity).

PHYSICAL EDUCATION.—*Sigma Delta* (men); *Hell Diver's Club* (national society sponsoring swimming, life-saving, and first-aid, men and women); *Manager's Club* (student athletic managers).

FRATERNAL

Fraternities.—Twelve national fraternities have chapters at the University: *Kappa Sigma*, *Phi Delta Theta*, *Beta Theta Pi*, *Sigma Nu*, *Sigma Alpha Epsilon*, *Phi Gamma Delta*, *Sigma Chi*, *Delta Chi*, *Alpha Tau Omega*, *Lambda Chi Alpha*, *Tau Kappa Epsilon*, and *Delta Tau Delta*. All are represented in the *Inter-Fraternity Council*, which unites them to serve the interests of the University and to promote among themselves a spirit of good feeling and cooperation.

Sororities.—National sororities which have chapters at the University are *Gamma Phi Beta*, *Delta Gamma*, *Kappa Kappa Gamma*, *Kappa Alpha Theta*, *Pi Beta Phi*, *Alpha Chi Omega*, *Alpha Phi*, and *Delta Delta Delta*. In the *Women's Pan-Hellenic Association* they are united to promote University and sorority interests and to prescribe rules under which invitations to sorority membership are extended.

RELIGIOUS ACTIVITIES

Religious activities among the students are promoted energetically by all the Moscow churches, of which there are more than a dozen. Young people's societies and Sunday school classes of these churches are organized especially with a view to serving students' needs. Among religious organizations of University people are the *DeSmet Club* (Roman Catholic); the *Episcopal Club* (affiliated with the National Student Council); the *Wesley Foundation* (Methodist Episcopal, working through the *Wesley Club*); *Kappa Phi* (Methodist girls); a chapter of the *Lutheran Student Association of America*; the *Westminster Guild* (Presbyterian girls); and the *Roger Williams Club* (Baptist young people).

Two church homes for men are maintained near the campus: *The Latter Day Saints Institute* and *Chi Alpha Pi*, the Evangelical Christian Men's House.

RELIGIOUS EDUCATION

The Moscow L.D.S. Institute was established in 1928 by the Church of Jesus Christ of Latter-Day Saints in the belief that its members attending the University of Idaho should have the benefit of religious training. It is under the supervision of a Director who serves as the religious teacher and adviser of students coming from L.D.S. homes.

The Idaho Institute of Christian Education was incorporated November 24, 1930, by a group of laymen and pastors of Evan-

gelical Christian churches, for the purpose of making courses in Religion and Religious Education available to the students of the University of Idaho at Moscow. It is not a part of the University but is under the management and direction of a board of trustees chosen by an association of laymen and pastors from the Baptist, Brethren, Christian, Congregational, Episcopal, Lutheran, Methodist, Nazarene, and Presbyterian churches.

Registration in courses offered by both institutes is open and without charge to any regularly matriculated student at the University. With the consent of his Dean, any student may elect a total of eight credits in Religious Education toward a degree.

Additional information and circulars concerning courses or facilities may be obtained from the respective directors.

PUBLICATIONS

THE UNIVERSITY OF IDAHO BULLETIN series includes the *University Catalog*, the *Alumni News Letter*, information publications and announcements of the several Schools, Colleges, and curricula, the University illustrated booklet, research studies in Agriculture, Forestry, and Engineering, and the biennial report of the President.

AGRICULTURAL PUBLICATIONS.—The University publishes monthly the *News Letter*, devoted chiefly to agricultural and 4-H Club news and articles. *Agricultural Experiment Station Bulletins* contain full accounts of results of investigation by the staff of the Experiment Station. *Agricultural Extension Bulletins* are published frequently to make available to farmers the latest agricultural knowledge in non-technical language. *The Annual Report of the Experiment Station* sets forth the program of the station, its progress and results.

STUDENT PUBLICATIONS are *The Idaho Argonaut*, semi-weekly newspaper; *The Gem of the Mountains*, Associated Students' yearbook; *The Idaho Blue Bucket*, humorous quarterly; *Under the Helmet*, a literary yearbook compiled jointly by the Winged Helmet and the English Club; *The Idaho Engineer*, engineering students' semi-annual technical journal; and *The Idaho Agriculturist*, agricultural students' annual.

PUBLIC SERVICE BULLETINS.—*The Idaho Economic Bulletin*, issued by the School of Business Administration; *The Idaho Forestry Bulletin* of the School of Forestry; *The Idaho Forester*; semi-technical and popular publication of the School of Forestry; *The Idaho Law Journal*, a technical law journal published by the College of Law. *State Bureau of Mines and Geology Bulletins* present results of research and field investigation conducted by that division.

PART II
Admission Requirements
and Regulations

PART II

THE HISTORY OF THE

REPUBLIC OF THE

ADMISSION TO THE UNIVERSITY

APPPLICANTS for admission to the University must be at least sixteen years of age (eighteen for admission to the College of Law) and must present satisfactory evidence of good moral character.

Students are classified as graduates and undergraduates. Undergraduates are classified as regular students (Freshmen, Sophomores, Juniors, and Seniors) and special students.

CREDENTIALS.—Blanks for furnishing personal data and high school records will be sent upon request to The Registrar, University of Idaho, Moscow, Idaho. College and normal school records should be furnished on the transcript blank of the institution at which the work was taken. All credentials should be sent direct to the Registrar, not through the student.

PERMITS TO REGISTER.—Applicants for admission whose credentials have been accepted will be mailed permits to register for the following semester. Applicants will be saved much inconvenience and uncertainty if all their credentials are received by the registrar in sufficient time for the settlement of any question through correspondence and the receiving of permits to register before the proposed date of admission. No permits will be mailed later than one week before the first day of registration for any session of the University, but applicants will be notified by collect telegram if credentials received after that time make them ineligible for admission.

ADMISSION AS REGULAR STUDENTS

ADMISSION BY CERTIFICATE.—Admission to the University by certificate is based upon credentials showing:

- (a) Graduation from an accredited four-year high school and presentation of fifteen acceptable units (Plan I) or
- (b) Graduation from an accredited three-year senior high school and presentation of twelve acceptable units (Plan II).

A "unit" represents a high-school subject taught five times a week in periods of not less than forty minutes' duration (laboratory eighty), for a school year of at least thirty-six weeks. A Certificate of Secondary School Record should be filled out and signed by the superintendent, principal, or other official of the school in which the work was done. It should show the length of each course in weeks, the number of recitations a week, the length of each recitation, and the grade of scholarship attained, including a record of all failures and conditions. All certificates accepted toward admission to the University become the property of the University, and are permanently filed among its records. They cannot be returned to the student, but certified copies will be issued if needed.

Academic units shall be defined as English (composition and literature), foreign language, mathematics, social science, and natural science.

Elective units may be taken from the academic subjects named as well as from vocational and other subjects commonly given in high schools, with the following exceptions:

(a) Military drill, spelling, penmanship, reviews, project work unless in conjunction with regular courses, and work which primarily is of the nature of extra-curricular activities.

(b) Less than one unit in foreign language, shorthand, typewriting, or bookkeeping.

(c) Less than one-half unit in any subject.

(d) More than one unit in physical education.

Requirements for admission to the University Junior College, the Senior Colleges, and the four-year divisions of the University are shown in the tables under Plan I and Plan II. High-school graduates are admitted to full standing in the University Junior College if they present the prescribed number of academic units, a lesser number of which are specified. Those who plan later to enter one of the Senior Colleges, or those who may transfer to one of the four-year colleges, must have the units of credit specified under such college. For instance, a student entering the College of Letters and Science, College of Law, or School of Business Administration on completion of the junior college curriculum must present two units of foreign language. These may be the unspecified academic units required for admission to the University Junior College. A student who expects to enter a curriculum in one of the sciences should be especially careful in choosing his high school courses in science and foreign language. For details of the requirements see the separate curricula in Part III of this catalog.

PLAN I

Graduation From an Accredited Four-year High School and Presentation of Fifteen Acceptable Units

The specific requirements and apportionment of required and elective units for entrance to the various divisions of the University are shown below. For admission with deficiencies in group requirements see page 26.

	Junior College	Senior Colleges			Four-Year Colleges				
		Letters and Science	Law	Business	Agriculture	Engineering	Mines	Forestry	Education†
English	3	3	3	3	3	3	3	3	—
A Modern Language or Latin.....	—	2	2	2	—	—	—	—	—
Social Science	2	2	2	2	2	2	2	2	—
Mathematics Algebra	1	1	1	1	1	1	1	1	—
Plane Geometry	1	1	1	1	1	1	1	1	—
Advanced Algebra	—	—	—	—	—	½	½	—	—
Solid Geometry	—	—	—	—	—	½	½	—	—
Natural Science (unspecified).....	2	2*	2	2	2*	1	1	2*	—
Physics	—	—	—	—	—	1	1	—	—
Unspecified Academic Units.....	2	—	—	—	—	—	—	—	—
Total Academic Units.....	11	11	11	11	9	10	10	9	—
Additional Academic, Vocational or Elective Units	4	4	4	4	6	5	5	6	—
Total Units Required.....	15	15†	15†	15†	15	15	15	15	—

*It is highly desirable for students planning to enter the College of Agriculture, the School of Forestry, or the B.S., B.S.(H.Ec.), or B.S.(Pre-Med.) curriculum of the College of Letters and Science to offer one unit in physics.

†Two years of college work also are required.

‡The requirement for admission to the School of Education is graduation from a four-year high school fully accredited by the State Board of Education.

PLAN II
Graduation From Accredited Senior High Schools Organized
on the 6-3-3 Plan

1. Full admission to all divisions of the University shall be based upon 12 units completed in Grades X, XI, and XII.

2. Of the 12 units accepted for admission not to exceed three units may be non-academic. The academic units shall consist of a major (three units) and two minors (two units each) or four minors.

3. (a) English shall be either a major or a minor.

(b) Mathematics shall be a minor except that for admission to the College of Engineering and School of Mines it shall be a major.

(c) At least one unit in *social science* and one unit in *natural science* must be included in the remaining academic units for admission to all divisions of the University. Students entering the College of Engineering or School of Mines must present physics as a *natural science*.

(d) A major or minor in foreign language shall be required for admission to the College of Letters and Science, College of Law, and School of Business Administration.

4. A major in foreign language may consist of a year of one language and two of another, but a minor must be a single language.

5. A unit of foreign language and a unit of mathematics may be accepted from work carried below Grade X as a major or a minor although such courses may not be counted as part of the nine required academic units.

The specific requirements for admission to the various divisions of the University are shown below. See the next page for admission with deficiencies in group requirements.

	Junior College	Senior Colleges			Four-Year Colleges				
		Letters and Science	Law	Business	Agriculture	Engineering	Mines	Forestry	Education**
English	2	2	2	2	2	2	2	2	—
A Modern Language or Latin.....	—	2*	2*	2*	—	—	—	—	—
Social Science	1	1	1	1	1	1	1	1	—
Mathematics	1*	1*	1*	1*	1*	1*	1*	1*	—
Algebra	1	1	1	1	1	1	1	1	—
Plane Geometry	—	—	—	—	—	1/2	1/2	—	—
Advanced Algebra	—	—	—	—	—	1/2	1/2	—	—
Solid Geometry.....	—	—	—	—	—	—	—	—	—
Natural Science (unspecified).....	1	1†	1	1	1†	—	—	1†	—
Physics	—	—	—	—	—	1	1	—	—
Unspecified Academic Units.....	4-3	1-3	1-3	1-3	3-4	2-3	2-3	3-4	—
Total Academic Units.....	9	9	9	9	9	9	9	9	—
Additional Academic, Vocational or Elective Units	3	3	3	3	3	3	3	3	—
Total Units Required.....	12	12†	12†	12†	12	12	12	12	—

*One unit may be earned in junior high school, in which case, however, the unit shall not count toward the *nine* academic units required from the senior high school.

†It is highly desirable for students planning to enter the College of Agriculture, the School of Forestry, or the B.S., B.S.(H.Ec.), or B.S.(Pre-Med.) curriculum of the College of Letters and Science to offer one unit in physics.

‡Two years of college work also are required.

**The requirement for admission to the School of Education is graduation from a three-year senior high school fully accredited by the State Board of Education.

SCHOLARSHIP REQUIREMENTS.—Students who qualify for admission under Plan I or Plan II, but who rank in the lowest one-fourth of their graduating class or who fail to present recommending grades in at least two-thirds of the required units will be admitted only on probation. Unless otherwise restricted by the high school, recommending grades are those which are at least one "step" (letter or other symbol) above the lowest passing grade in a system using four passing grades, or, in a purely percentage system, grades which are in the upper three-fourths of the interval between the lowest passing grade and 100.

Students from accredited secondary schools who have completed the required number of acceptable units but have not graduated may be admitted upon special recommendation of the principal, subject to the same grade regulations as graduates.

ADMISSION BY EXAMINATION.—Applicants for admission who have graduated from non-accredited high schools will be given a college ability test to determine their status in the University. All other applicants for admission to regular standing will be required to pass entrance examinations in fifteen units of acceptable work. Persons who are interested should write the Registrar for detailed information and should send all available credentials regarding their previous work.

ADMISSION WITH DEFICIENCY IN GROUP REQUIREMENTS.—Students who qualify for admission to the University by certificate or by examination but who fail to meet specific group requirements as indicated in Plan I or Plan II may be admitted with deficiencies and take courses for which they are prepared. All entrance deficiencies must be removed before the beginning of the sophomore year; otherwise the students will be debarred from registering until the deficiencies are removed or the required courses are placed on their study list. Students admitted to the University Junior College who present fewer than the number of academic units required in the plan under which they enter will make up the deficiency with college courses but without college credit, except that college courses can not be substituted for high-school algebra and geometry. Similarly, deficiencies for admission to the four-year divisions are, in general, made up without college credit.

ADMISSION AS SPECIAL STUDENTS

Persons over twenty-one years of age, who are unable to meet the admission requirements for regular students and desire to take special studies, may be admitted as special students upon presentation of satisfactory evidence that they are fully qualified to enter upon the work. Save in exceptional cases, students will not be admitted directly from the secondary schools to the status of special students.

Graduates of accredited high schools are not admitted as special students, but are expected to qualify for regular undergraduate standing in accordance with the general rules.

A special student is not eligible for any degree. Before being admitted to candidacy such student must attain regular standing and be in residence

carrying a regular schedule of work for at least two years thereafter. Registration in any semester is dependent upon the record thus far made in the University.

ADMISSION TO ADVANCED UNDERGRADUATE STANDING

FROM UNIVERSITIES AND COLLEGES.—Students who have completed work in other universities and colleges of recognized rank and who present certified statements of their record and honorable dismissal from the institutions attended may be admitted to advanced standing. Credits presented from other than the above-mentioned educational institutions will be considered and evaluated, but they will not be accepted until after the completion of at least one semester of satisfactory work in the University. In general, credit will be granted only to courses equivalent or similar to those given in the University or to those ordinarily given in a state-supported university or college. Credentials should include a Certificate of Secondary School Record giving full information regarding the applicant's high-school record, as well as separate transcripts from each of the institutions attended. These should be sent to the registrar at least one month before the student expects to enter the University. (See Regulation No. 28a under Regulations, Part II).

Students entering the University from other institutions must comply with the same regulations as to their former scholarship as are applied to students previously enrolled in this institution. (See Regulations Nos. 28 and 30 and requirements for admission to the Senior Colleges.)

FROM NORMAL SCHOOLS.—Students from approved normal schools who have completed a high school course fully covering the entrance requirements of the University, and who present a satisfactory scholarship record, are admitted to advanced standing in the University. (See Regulation No. 30 and requirements for admission to the senior colleges.) Those who have graduated from two-year courses in approved normal schools in addition to high school graduation may be admitted to junior standing in the School of Education. Normal school graduates who enter other curricula are allowed credit for work done and given a class standing according to the number of their courses which may be applied as required and elective credits in the curriculum chosen. Non-graduates of approved normal schools will be granted credit in such courses as appear equivalent to courses given in the University.

In order to qualify for a degree from any division of the University, a normal school graduate must satisfy the specific requirements of the curriculum in which he is registered.

FROM JUNIOR COLLEGES.—Students from accredited junior colleges who present a satisfactory scholarship record are admitted without examination and receive credit for all work which is the equivalent of similar courses offered by the University, but in no case shall the amount of credit granted exceed one-half of the number of credits required for graduation from the curriculum in which the student registers in the University of Idaho.

FROM THE SOUTHERN BRANCH OF THE UNIVERSITY OF IDAHO.—Credits earned at the Southern Branch of the University of Idaho at Pocatello are considered on the same basis as credits earned at the University of Idaho at Moscow. In order to qualify for a degree a student who transfers from the Southern Branch must, of course, satisfy the specific and general requirements for graduation from the curriculum which he enters in the Senior College or four-year college. (See Regulation No. 28 under "Regulations" in Part II.) Applicants for transfer must fill out a Petition for Transfer card and have it approved by the executive dean of the Southern Branch. As soon as this card is filed in the registrar's office of the Southern Branch the student's complete credentials and record will be sent to the University of Idaho at Moscow.

FROM SECONDARY SCHOOLS.—Advanced credit will be given for courses completed in high schools or other institutions of high-school grade in excess of a total of sixteen units, only upon the following conditions: (a) The subject in which application for advanced credits is made must be approved by the committee on advanced credits. (b) An examination in this approved subject must be passed not later than one year after the applicant's admission to the University.

ADMISSION TO THE SENIOR COLLEGES

Admission to the College of Letters and Science or School of Business Administration will be granted to holders of the junior certificate from the University Junior College or the Southern Branch of the University of Idaho, provided they have obtained an average grade of C (4.000) in all courses for which they have registered. Students who have completed equivalent work in some other acceptable institution may be admitted provided three-fourths of their residence credits have been above grade D and their average grade has been C or above on a scheme of four passing grades.

A student must complete the prerequisites for the curriculum which he enters in the senior college. One who has completed fifty-four semester credits in addition to the requirements in Military Science and Physical Education may be provisionally enrolled in either of the above named senior colleges provided three-fourths of the residence credits which he offers are above grade D and his average has been grade C (4.000). During his first year in the senior college he must make up the requirements for the certificate of graduation from the University Junior College.

Admission to the College of Law will be granted to holders of the bachelor's degree and to applicants who have satisfied the entrance requirements listed in Part II of this catalog, and in addition have completed sixty-four credits in courses of college grade (including not more than eight credits in military and physical education). These credits would ordinarily be earned in the University Junior College. Three-fourths of the credits offered must be above grade D and the average must be 4.000 or above.

ADMISSION TO GRADUATE STANDING

A bachelor's degree from a college or university of acceptable standing is required for admission to graduate work. A certified transcript of undergraduate work is also required, and this should be sent to the University some time prior to registration days. For further regulations concerning Graduate work see Part III of the catalog.

DEGREES GRANTED

FIRST DEGREES

The following baccalaureate degrees are conferred upon those who have completed successfully the prescribed courses of study and who have complied with all other requirements laid down by the University:

COLLEGE OF LETTERS AND SCIENCE:

- Bachelor of Arts, B.A.
- Bachelor of Science, B.S.
- Bachelor of Science in Pre-Medical Studies, B.S.(Pre-Med.)
- Bachelor of Science in Home Economics, B.S.(H.Ec.)
- Bachelor of Science in Pre-Nursing Studies, B.S.(Pre-Nurs.)
- Bachelor of Music, B.M.

COLLEGE OF AGRICULTURE:

- Bachelor of Science in Agriculture, B.S.(Agr.)

COLLEGE OF ENGINEERING:

- Bachelor of Science in Civil Engineering, B.S.(C.E.)
- Bachelor of Science in Electrical Engineering, B.S.(E.E.)
- Bachelor of Science in Mechanical Engineering, B.S.(M.E.)
- Bachelor of Science in Chemical Engineering, B.S.(Chem.E.)
- Bachelor of Science in Agricultural Engineering, B.S.(A.E.)

COLLEGE OF LAW:

- Bachelor of Laws, LL.B.

SCHOOL OF MINES:

- Bachelor of Science in Mining Engineering, B.S.(Min.E.)
- Bachelor of Science in Metallurgy, B.S.(Met.)
- Bachelor of Science in Geology, B.S.(Geol.)

SCHOOL OF FORESTRY:

- Bachelor of Science in Forestry, B.S.(For.)

SCHOOL OF EDUCATION:

- Bachelor of Science in Education, B.S.(Ed.)
- Bachelor of Science in Music Education, B.S.(Mus.Ed.)

SCHOOL OF BUSINESS ADMINISTRATION:

- Bachelor of Science in Business, B.S.(Bus.)

SOUTHERN BRANCH:

- Bachelor of Science in Pharmacy, B.S.(Phar.)

ADVANCED DEGREES

The following advanced degrees are offered by the Graduate School of the University:

Master of Arts, M.A.
Master of Science, M.S.
Master of Science in Home Economics, M.S.(H.Ec.)
Master of Science in Agriculture, M.S.(Agr.)
Master of Science in Civil Engineering, M.S.(C.E.)
Master of Science in Electrical Engineering, M.S.(E.E.)
Master of Science in Mechanical Engineering, M.S.(M.E.)
Master of Science in Chemical Engineering, M.S.(Chem.E.)
Master of Science in Agricultural Engineering, M.S.(A.E.)
Master of Science in Metallurgy, M.S.(Met.)
Master of Science in Geology, M.S.(Geol.)
Master of Science in Forestry, M.S.(For.)
Master of Science in Education, M.S.(Ed.)
Master of Science in Business, M.S.(Bus.)

PROFESSIONAL DEGREES

The following professional degrees are offered in engineering and mining:

Civil Engineer, C.E.
Mechanical Engineer, M.E.
Electrical Engineer, E.E.
Chemical Engineer, Ch.E.
Agricultural Engineer, A.E.
Engineer of Mines, E.M.
Metallurgical Engineer, Met.E.

For conditions of candidacy for an advanced degree, see the Graduate School, in Part III.

REGULATIONS

NOTE.—*Students are held individually responsible for the information contained in these pages. Failure to read and understand these regulations will not exempt a student from whatever penalties he may incur.*

A. REGISTRATION

1. FRESHMAN DAYS.—Two days (Sept. 19, 20, 1932) immediately preceding registration for the fall semester are set aside as Freshman Days. All students entering the University for the first time, including those who have attended summer sessions only, are required to report on these days to take the Uniform English Test and other tests required of all students, and to avail themselves of the orientation lectures and conferences with deans and directors.

2. TESTS.—(a) *Uniform English Test*.—All students who enter the University of Idaho either direct from the high schools or with advanced

standing will take the Uniform English Test required in the higher institutions of the Northwest. Students who fail to pass the test are not permitted to take the college courses in English until they have completed Eng. A, Sub-Freshman English, without credit.

(b) *Psychological Test* and

(c) *Reading Ability Test*.—All new students are required to take the psychological and reading tests except, (1) those whose official transcripts of record from other collegiate institutions show comparable test scores, and (2) graduate students. These tests are administered during the days immediately preceding registration.

3. **REGISTRATION**.—Registration for the first semester of 1932-33 will be held on September 20-21, upon which days all students are required to pay their fees and complete their registration. Students whose registration is not completed on either of the two registration days will be charged a late registration fee of \$3 for the first day; \$2 additional for the second day; and \$1 additional each day thereafter up to a maximum of \$10.

A system of pre-registration will be enforced for the second semester and students will be required to confer with their registering officers and file their registration blanks in the registrar's office between January 4 and January 26. A late filing fee of \$1 a day up to a maximum of \$10 will be charged those students whose blanks are not filed between the dates mentioned. Likewise, the usual late registration fee will be charged those students whose fees are not paid before February 2. Second semester fees may be paid by mail or in person.

4. **CREDIT**.—No students will receive credit for work for which he is not officially registered. No person may regularly attend any course in which he is not registered as a student or enrolled as an auditor.

5. **NUMBER OF CREDITS**.—No student may be registered for more or less than the regular schedule of credits in his curriculum without special permission of his dean. The total number of credits for which a student may be registered shall not in any semester exceed twenty.

6. **MATRICULATION LECTURES**.—All Freshman students are required to attend a series of Freshman lectures scheduled throughout the fall semester, also to attend such other lecture courses as may be especially scheduled for Freshman students in the curriculum in which they are registered.

7. **CHANGE OF CURRICULUM**.—A student may not change his curriculum except by written permission of the Deans concerned. On transferring from one School or College of the University to another, a student shall be enrolled at least one year and complete two full semesters' work in residence before qualifying for a degree from the latter division. The dates upon which students may change their curricula are limited to the first two weeks of either semester.

8. **CHANGE IN STUDY LIST**.—When a student's study list has been filed, he may not change it except by the written permission of the Dean of his division. After two weeks in either semester no changes will be permitted

except for extraordinary reasons accepted by the Academic Council. Any course dropped without the written permission of the dean concerned will be recorded with the grade of F for the semester.

9. HABITUAL BAD ENGLISH.—Any student who habitually uses bad English shall be reported by his instructor to his Dean with all available evidence. If the dean considers this evidence sufficient, he will require the student to take without credit such further work in composition as may be deemed advisable in conference with the head of the Department of English.

10. AUDITORS.—Mature persons not enrolled in the University may be admitted as auditors to the lectures in any course upon written approval of the registrar and the instructor in charge of the course. Students in the University are not admitted as auditors without the approval of their Dean. Auditors are not permitted to take part in recitations and discussions, and attendance as an auditor does not entitle one to credit or to admission to regular examinations in the course.

11. NON-RESIDENT INSTRUCTION.—Non-Resident Instruction work as authorized by the University of Idaho consists of two types: (1) Correspondence study—individual or group; (2) Group study in non-resident classes personally conducted by members of the University faculty. Non-Resident credit is given for both types of work unless otherwise authorized by the Academic Council. Students may enroll for non-resident work at any time except when they are in residence at the University. Resident students are not permitted to carry non-resident work. Courses not completed before students register or re-register in the University are automatically dropped at date of such registration. Non-resident students failing to complete courses for which they have registered will be dropped at the end of twelve months from the date of their registration.

12. COURSES IN ABSENTIA.—Courses in absentia are those taken by matriculated students while enrolled for residence work in the University, who, for schedule or other valid reasons, are unable to attend regular classes in certain courses and who do the work by appointment with a resident instructor. Permission for taking courses in absentia must be obtained from the instructor and the Academic Council in advance of beginning the work.

B. CREDIT

13. "CREDIT" is a quantitative term applied to work at the University and is determined by the number of recitation-hours each week for a semester. Thus, a course meeting three times a week for one semester is called a three-credit course. Three hours' work in laboratory, shop, or field is counted as the equivalent of one recitation-hour. The latter presupposes two hours of outside preparation.

14. CREDIT FOR LESS THAN ONE YEAR'S WORK.—Certain subjects are continuous courses covering at least one year's work, and in these no credit is allowed toward graduation until the second semester's work is completed. Such courses are indicated by the letter "n," i. e., Fr. 1n.

15. **NO CREDIT FOR REPEATED SUBJECTS.**—No college credit will be given for subjects taken in high school and repeated in college unless those courses are in excess of sixteen units offered for admission.

16. **CREDIT FOR NON-RESIDENT OR CORRESPONDENCE WORK** will be accepted as counting toward a degree, subject to the completion of one year's work in residence in the University and subject to the further limitation that the maximum amount of such work shall under no condition exceed thirty-two credits.

17. **CREDIT FOR WORK DONE DURING VACATION** is discouraged. No credit for such work will be granted except by petition in advance to the Academic Council, in which case not more than one credit per week may, in exceptional circumstances, be permitted.

C. MAJOR STUDY

18. **MAJOR STUDY.**—A major consists of from sixteen to twenty credits of advanced work in one department, (i.e. work in courses numbered above 100, except when specifically noted in the departmental statements).

D. GRADES, EXAMINATIONS, AND GRADUATION

19. **GRADES** are reported as A, excellent (90-100); B, good (80-89); C, average (70-79); D, barely passing (60-69); F, failure (below 60); Inc., incomplete, work of passing grade but, for adequate reason, not quite completed; and W, withdrawal by permission while doing passing work. Mid-semester grades as well as semester grades are filed in the registrar's office.

20. **"INCOMPLETE"** denotes lack of quantity rather than lack of quality. It is given when the student, although doing satisfactory work, has for adequate reasons been unable to complete the course within the specified time. In case of withdrawal, the grade of "incomplete" is not given unless withdrawal occurs within the last three weeks of the semester. An incomplete not removed within three weeks after the student's return to the University automatically becomes a "failure." A permit for extension of time may, under exceptional circumstances, be granted by the Dean and the instructor concerned. Such permit, to be effective, must be filed in the registrar's office prior to the above date. The privilege of making up incompletes is extended only to persons registered in the University.

21. **"FAILURE"** denotes that the work of a student in a given subject is of such poor quality that credit may be obtained only by repeating the course.

22. **"WITHDRAWAL."**—A student who desires to withdraw from the University must apply to his Dean for an indefinite leave of absence. Failure to file such a leave of absence in the registrar's office within ten days after withdrawal will result in the forfeiture of any balance of his general deposit which may remain in the office of the bursar. A student who withdraws for any reason receives a semester grade of F in all courses in which he is deficient.

23. "PROBATION" is the status of a student who, because of failure to receive a passing grade in at least twelve credits, or for other appropriate reasons, is for a specified period deprived of certain privileges and is subject to dismissal from the University. Students dropped for unsatisfactory scholarship will be placed on probation should they subsequently register in the University. A student on probation is disqualified from representing the University in any extra-curricular activity, except that students on probation due to high-school grades are not disqualified from participation in extra-curricular activities during the first nine weeks of their first semester.

In order to remain in the University a student placed on probation must at the end of the probation period be doing passing work either in eleven credits or in all but one subject; except that Freshmen and special students in their first semester in college may be allowed to remain if they have passed in nine credits or in all but one subject.

24. ABSENCE FROM FINAL EXAMINATIONS.—A student who absents himself from a regular semester examination without valid excuse receives an F. If the excuse is valid, and the work of the semester satisfactory, the student receives an Incomplete.

25. SPECIAL EXAMINATIONS.—Any irregular examination shall be considered a special examination and shall entail the payment of a special examination fee of \$1.

26. AVERAGE GRADE REQUIRED FOR JUNIOR CERTIFICATE.—A student in order to receive a certificate from the University Junior College, must present grades of C or above in three-fourths of the credits required for the certificate and received in residence.

27. GRADES TO PARENTS AND HIGH SCHOOLS.—The grades of all Freshman and Sophomore students at the close of each semester are forwarded to parents or guardians and to the high school which the student last attended.

28. GENERAL REQUIREMENTS FOR GRADUATION.—In addition to the general and specific requirements of his curriculum, a candidate for a baccalaureate degree must have met the following general University requirements:

(a) *Residence Requirement.* A student in order to be eligible for the bachelor's degree must do at least one year's work in residence in the division from which he expects to graduate. (See Regulation No. 7). If the student's term of residence in the University is only one year, it must be the senior year. A year's work is interpreted as one-fourth of the total requirements for the degree sought, except that in the College of Law, twenty-four semester hours are required.

(b) *Grade Requirements.* A student, in order to be eligible for graduation, must have grades of C or above in three-fourths of the credits required in his curriculum and received in residence.

(c) *Upper Division Requirement.* In order to be eligible for a degree, students in the B.A., B.S., and B.S.(Ed.) curricula must present a minimum of 36 semester credits of work in courses numbered above 100.

(d) *Credits Earned in Senior College or Upper Division.* (Applicable to students who entered as Freshmen in 1929 and later.) In order to qualify for a degree, a student who has done his Freshman and Sophomore work in a junior college, or other institution whose curricula are essentially for students in their first two college years, must present at least fifty-four semester credits earned in the senior college or the upper division of a degree-granting institution.

(e) *Application for Baccalaureate Degree.* Any student who expects to receive a baccalaureate degree must, at the beginning of his last semester or summer session in residence, file a petition to be admitted as a candidate and must pay the diploma fee of \$5. No application for a degree at a given commencement will be accepted after February 15.

E. RATING AND ELIGIBILITY

29. *CLASS RATING.*—A student in order to be rated as a Freshman must have met the entrance requirements for regular students (see Entrance Requirements in Part II.) To be rated with an advanced class a student may not be more than six credits behind the curriculum requirement for entering that class in a given semester. Thus, for example, a student in the University Junior College who has twenty-six credits at the beginning of the first semester may be ranked a sophomore, whereas at the beginning of the second semester he must have forty-two credits to be so ranked.

30. *ELIGIBILITY TO REGISTER.*—A student, at the end of any semester, must have received a passing grade in eleven credits or a passing grade in all but one subject of registered residence work in order to be eligible for registration the following semester; except that freshmen and special students in their first semester in college may be allowed to register the following semester if they have passed in nine credits or in all but one subject, and that students in the College of Law who have passed in two-thirds of their work are eligible to continue.

A student dropped from the rolls of the University for the second time is no longer eligible for re-instatement.

Students admitted to the University of Idaho from other educational institutions must have complied with these scholarship regulations in addition to those of the institution or institutions which they have attended. If the past record of a student, regardless of the rules of the institution which he attended, has been such that the above rule would have operated, such operation will be taken into account in determining his eligibility for admission to the University of Idaho.

31. *ELIGIBILITY.*—No student may represent this institution in any athletic contest, debate, play or other extra-curricular activity, neither may he be a candidate in any final election for A.S.U.I. offices, if five days before such event, he is on probation,* or has not a passing grade in at least eleven credits of current work applicable toward a degree, or has not passed

*Students on probation due to high-school grades are not disqualified from participation in extra-curricular activities during the first nine weeks of their first semester.

in two-thirds of the normal work of the curriculum in which he was enrolled for his previous semester in residence in this or any other institution. Should any student during his term of office become ineligible under the above rule, he must immediately resign from office, and discontinue his official duties for the remainder of his term. The eligibility of all candidates for extra-curricular activities must be certified by the registrar's office before participation.

F. ABSENCES

32. ABSENCES DUE TO ACTIVITIES.—No student may be absent from the campus in connection with extra-curricular activities more than sixteen working days a semester. No one extra-curricular activity (basketball, glee club, debate, etc.) may take students away from the campus more than twelve instructional days.

33. ABSENCES BEFORE AND AFTER VACATIONS.—Students who absent themselves from class immediately before or after vacation (exclusive of single holidays) shall have their final grade reduced ten points in each course in which absence was incurred. Absence before and after vacations date from the last class the student attended prior to the vacation, to the first class attended after vacation.

34. CONCERTED ABSENCES.—Students who participate in any unauthorized, concerted action to absent themselves from class shall have their final grade reduced ten points in each course affected by such absence.

35. GENERAL ATTENDANCE.—Students are responsible for their attendance in the courses in which they are enrolled. Excessive absences are, however, reported to the dean of the college in which the student is registered.

G. MISCELLANEOUS

36. SOCIAL ORGANIZATIONS.—Student organizations, including fraternities, sororities, and clubs, are under the supervision of the Faculty Committee on Student Organizations. In order to receive permission to form such an organization or to petition for a charter from a national organization, it is necessary to petition this committee.

37. STUDENT EVENTS.—In order to receive permission for any student event, it is necessary to petition the Faculty Committee on Calendar.

38. AUDITING OF ACCOUNTS.—All funds for public purposes within the University (except those of the A.S.U.I., fraternities, sororities, and boarding house organizations) which are contributed to or collected by any student or member of the faculty shall be deposited with the University Bursar, subject to withdrawal upon the written approval of the President, or of the Bursar in the President's absence; and an accounting of all receipts and expenditures in these funds shall be made by those responsible for their collection immediately after they shall have been disbursed, this accounting to be audited by the Bursar.

39. CONDUCT.—Students are held responsible for any breach of the recognized rules of conduct.

40. SMOKING.—Smoking in University buildings is forbidden.

PART III
**The University's Schools
and Colleges
With Their Curricula**

PART III
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and Colleges
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Senior College of Letters and Science

JOHN ANTON KOSTALEK, PH.D.....	<i>Dean of the College, and Director of the Pre-Medical and Pre-Nursing Curricula</i>
VIRGIL ARTHUR CHERRINGTON, B.S.....	<i>Secretary of the College Faculty</i>
GEORGE MOREY MILLER, PH.D.....	<i>Chairman of the Curriculum Committee</i>
CARL LEOPOLD VON ENDE, PH.D.....	<i>Chairman of the Scholarship Committee</i>
KATHERINE JENSEN, M.S.....	<i>Director of the Home Economics Curricula</i>
CARLETON CUMMINGS, MUS.M.....	<i>Director of the Music Curricula</i>

THE College of Letters and Science accepts as the aim of education the development of the individual. This development expresses itself in physical well-being, social fitness (including vocational ability), understanding of the mental and physical world, and appreciation of the beautiful.

The objects of the College of Letters and Science are: (1) To awaken in the student a lively curiosity about the world of knowledge, and to provide opportunity for the satisfaction of that curiosity; (2) To inculcate habits of accurate thought and expression and to foster creative thinking; (3) To encourage tolerance and thus to evoke the qualities that make for living together as citizens; (4) To develop a liking for the beautiful and the genuine.

The College of Letters and Science aims to assist: (1) Those desiring a better understanding of the world and the principles of right living; (2) Those wishing non-professional training; (3) Those laying a broad foundation for a professional or vocational career; (4) Those desiring technical training in professional or vocational curricula for which special schools or colleges have not been established.

The College of Letters and Science is a Senior College; that is, its work embraces the Junior and Senior years of the four-year college period.

The plan of major and minor studies which until 1929 obtained in the Junior and Senior years is supplanted by a scheme of curricula, each of which centers in one major subject. These curricula have been so prepared by the several departments that students interested in a particular subject may concentrate their attention upon it and upon such closely correlated matter as has distinct bearing upon the major subject.

ADMISSION

The statement of the admission requirements to the various Senior Colleges will be found in Part II.

DEGREES AND CURRICULA

Curricula are offered leading to the degrees of Bachelor of Arts, B.A.; Bachelor of Science, B.S.; Bachelor of Science in Home Economics, B.S. (H.Ec.); Bachelor of Science in Pre-Medical Studies, B.S. (Pre-Med.);

Bachelor of Music, B.M.; and Bachelor of Science in Pre-Nursing Studies, B.S. (Pre-Nurs.).

GENERAL DEGREE REQUIREMENTS.—All candidates for the degree of Bachelor of Arts must complete, either in the Senior College or in the work prerequisite thereto, one year (six credits) in Philosophy, and two years (sixteen credits) in a foreign language above the two high-school units required for admission.

All candidates for the degree of Bachelor of Science, in whatever curriculum, must complete intermediate or scientific foreign language (French or German). Twelve credits in social sciences must also be completed unless taken in the Junior College.

SPECIFIC DEGREE REQUIREMENTS.—Candidates for any of the degrees must complete the work of one of the curricula, leading to the appropriate degree, listed later. Each curriculum requires from twenty to thirty semester credits in the major subjects besides others in specified closely related courses. In addition to the credits in these required courses the candidate must take elective credits sufficient to complete a total of from sixty to sixty-four credits, depending upon the curriculum. Wherever there are options, either with respect to the courses to be completed in the major subject, or in the selection of correlated material, student election must have the approval of the department adviser.

Courses carrying credit in the Senior College are limited to those numbered above 50; except that elementary courses in mathematics, foreign languages, and organized and applied music may, in certain curricula, receive Senior College credit. It is assumed that all the work of the various curricula should, for most satisfactory results, be done under the conditions prevailing in the Senior College. Accordingly, in order to qualify for a degree, a student who has done his Freshman and Sophomore work in a Junior College, or other institution whose curricula are essentially for students in their first two college years, must present at least fifty-four semester-credits earned in a Senior College or the upper division of a degree-granting institution.

Many of the curricula offer options for students who plan to enter the teaching profession. Students who plan to teach in high schools of Idaho or of practically any State, must satisfy a requirement of fifteen credits in Education. These requirements are necessary to secure a State certificate; and in Idaho, the course known as Education 55, Idaho Law, Manual, and Civics, must be included.

Each curriculum statement includes one or more of the following sections: (1) PREREQUISITES. These are subject courses which must be completed previous to admission to the Senior College. If it is impossible to complete all the prerequisites for a curriculum in any natural science, viz. Bacteriology, Botany, Chemistry, Geology, Physics, Psychology, or Zoology, in addition to the twelve credits in the Social Sciences regularly required in the Junior College, these latter may be postponed to the Senior College.

(2) **RECOMMENDED PREPARATION.** Matter listed under this heading is such as may be considered desirable to cover in Junior College or elsewhere, with the view to a better preparation for the work of the Senior College. It is not absolutely required. (3) **REQUIRED.** All matter listed under this heading must be completed to satisfy the course requirements for the curriculum and constitutes the major work of the Senior College. (4) **SUGGESTED ELECTIVES.** Under this head are listed courses which are desirable for broadening the work of the Senior College or for preparing for specific vocational applications.

COMPREHENSIVE EXAMINATIONS.—The College of Letters and Science has approved in principle comprehensive final examinations. For the departments giving such examinations, see the Outlines of Curricula.

OUTLINES OF CURRICULA

The following are the requirements of the curricula offered in the Senior College of Letters and Science:

AMERICAN HISTORY

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES		Credits
Hist. 1-2. History of Civilization.....	6	
or		
(Hist. 13-14). Classical Civilization.....	6	
and		
Hist. 21-22. History of the Americas.....	6	
REQUIRED		Credits
Twenty credits of advanced work from the following courses, including Hist. 121-122, 123-124, and 128.		
Hist. 121. Reconstruction Period.....	3	
Hist. 122. America, a World Power.....	3	
Hist. 107-108. English History.....	6	
Hist. 115. Growth of American Diplomacy.....	3	
Hist. 116. American Diplomacy Since the Civil War.....	3	
Hist. 105-106. Recent Times.....	6	
Hist. 123. Pacific Northwest.....	2	
Hist. 124. Idaho and Inland Empire.....	2	
Hist. 128. Teachers' Course in American History.....	2	

ARCHITECTURE

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES		Credits
History 13-14, Art 1-2, Physics 3-4 are specified as part of the Junior College curriculum.		
		Credits
Arch. 11-12. Elementary Architectural Design.....	4	
Math. 1-2. Freshman Mathematics.....	8	
Math. 51. Calculus.....	4	
RECOMMENDED PREPARATION		Credits
Some courses in Law, Business, Public Speaking.		
REQUIRED		Credits
Art 101-102. Water Color Painting.....	4	
Arch. 113-114. Intermediate Architectural Design.....	6	
Arch. 115-116. Architectural Design.....	8	
Arch. 131-132. Architectural History.....	6	
SUGGESTED ELECTIVES		Credits
Arch. 133-134. Building Construction.....	6	
Arch. 136. Mechanical Plant of Buildings.....	2	
C.E. 6. Mechanics (Statics).....	2	
C.E. 103. Mechanics of Materials.....	3	
C.E. 102. Framed Structures (Pre. 103).....	3	
C.E. 106. Re-enforced Concrete Theory.....	2	
C.E. 135. Estimates and Costs.....	2	
M.E. 144. Heating and Ventilation.....	2	
Math. 52. Calculus.....	4	
Bus. 165-166. Business Law.....	6	

ART

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES		Credits
Psych. 1, History 13-14, and Art 1-2 are specified as part of the junior College curriculum.		
		Credits
Art 3-4. Principles of Design.....	4	
REQUIRED		Credits
Art 51-52. Art Appreciation.....	4	
Art 101-102. Water Color Painting.....	6	
Art 103-104. Principles of Applied Design.....	4	

	Credits		Credits
Art 105-106. Intermediate Freehand Drawing	6	History of French, German, or Spanish Civilization (the exact course will depend upon which foreign language is elected)	6
Art 123. Composition and Illustration	3		
Art 127-128. Advanced Freehand Drawing	6	SUGGESTED ELECTIVES	
Art 129. History of Painting	2	<i>Art</i> for those wishing to do advanced art elsewhere.	
C.L. 60. Classical Art	2	<i>Education</i> for prospective teachers.	
Eng. 175-176. Readings in European Literature	4	<i>English Literature.</i>	
		<i>Science</i> for those wishing to do scientific illustration.	

BACTERIOLOGY

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES	Credits		Credits
Chem. 1-2. General Chemistry	4	Bact. 109. Immunity	3
Chem. 51. Qualitative and Gravimetric Analysis	4	Bact. 110. Serology	3
Chem. 101. Organic Chemistry	4	Chem. 52. Quantitative Analysis	4
RECOMMENDED PREPARATION		Chem. 102. Organic Chemistry	4
<i>A. For students contemplating graduate work in Bacteriology</i>		Chem. 111. Biochemistry	4
Math. 1-2. Freshman Mathematics	8	<i>A. For students contemplating graduate work in Bacteriology</i>	
Bot. 1 or Zool. 1.	4	Math. 51-52. Calculus	8
<i>B. For prospective laboratory technicians</i>		<i>B. For prospective laboratory technicians</i>	
Zool. 1-2. General Zoology	8	Zool. 109. Vertebrate Histology	4
Zool. 4. Comparative Anatomy	4	Zool. 118. Parasitology	4
Zool. 6. Physiology	3	<i>C. For prospective government Civil Service employees</i>	
<i>C. For prospective government Civil Service employees</i>		Zool. 109. Vertebrate Histology and Organology and Zool. 110. Histological Technique, or	
Bot. 1-2. General Botany	8	Bot. 111. Mycology and P.P. 101.	
Bact. 8. Hygiene and Sanitation	3	General Plant Pathology	7-8
Zool. 1-2. General Zoology	8	Bacteriology from elective list below	10
Zool. 4. Comparative Anatomy	4	SUGGESTED ELECTIVES	
Zool. 6. Physiology	3	(Ten credits required for government civil service.)	
REQUIRED		Bact. 107. Food Bacteriology	4
Bact. 51. General Bacteriology	4	Bact. 111-112. Pro-Seminar	1-4
Bact. 104. Pathogenic Bacteria	4	Bact. 113. Public Health Methods	2-4
Bact. 108. Bacteriological Technique	3	Bact. 115-116. Special Problems	1-2
Bact. 106. Dairy Bacteriology	3		

BOTANY

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES	Credits		Credits
Bot. 1-2. General Botany	4	Bot. 125-126. Pro-Seminar	2
Bot. 53-54. Systematic Botany	6	Bot. 104. Plant Histology or P.P. 101, Plant Pathology	3-4
Chem. 1-2. General Chemistry	4	<i>A. For students planning to do advanced study along Physiological lines</i>	
Chem. 51-52. Qualitative and Quantitative Analysis*	8	Chem. 101-102. Organic Chemistry	8
Zool. 1. General Zoology	4	<i>B. For prospective teachers</i>	
REQUIRED		Fifteen credits in Education, including Bot. 109, Teaching of Botany, and work in some other field of study as a minor teaching subject.	
Bot. 121-122. Morphology	8		
Bot. 102. Plant Physiology	4		
Bot. 105. Plant Ecology	4		
Bot. 123-124. Thesis	2-4		

CHEMISTRY

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES	Credits		Credits
Chem. 1-2. General Chemistry	8	Math. 1-2. Freshman Mathematics	8
Chem. 51-52. Qualitative and Quantitative Analysis	8	Math. 51-52. Calculus	8
		Phys. 11-12. Engineering Physics	10
		C.E. 1. Engineering Drawing	3

*With consent of the Head of the Department, Physics 3-4 or 11-12 may be substituted for this requirement.

REQUIRED

	Credits
Ger. 1n-2. Elementary German.....	8
Ger. 15-16. Scientific German.....	6
Chem. 101-102. Organic Chemistry.....	8
Chem. 103. Advanced Quantitative Analysis.....	2
Chem. 104. Special Quantitative Analysis.....	2

	Credits
Chem. 105-106. Theoretical and Physical Chemistry.....	6
Chem. 109-110. Thesis.....	2
Math. 101. Engineering Mathematics.....	3
Phys. 152. Advanced Heat.....	3
Phys. 121-122. Analytical Mechanics.....	6

DRAMATICS AND PUBLIC SPEAKING

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits
<i>A. With major work in Speech</i>	
Eng. 31-32. Fundamentals of Speech.....	4
<i>Choice of one</i>	
a. Eng. 35. Extemporaneous Speaking.....	2
b. Eng. 36. Parliamentary Law and Procedure.....	2
c. Eng. 37. Intercollegiate Debate.....	1
<i>B. With major work in Dramatics</i>	
Eng. 33-34. Reading and Interpretation.....	4
Eng. 71-72. Fundamentals of Play Production.....	6

By permission these courses may count as required Art in the Junior College curriculum.

REQUIRED

	Credits
<i>A. With major work in Speech</i>	
Eng. 141-142. Shakespeare.....	6
Eng. 161. Voice Production.....	2
Eng. 162. Speech Composition.....	2
Eng. 163-164. Advanced Speaking.....	4
Eng. 165-166. Argumentation and Debate.....	4
Eng. 167-168. Advanced Interpretation.....	4-8
<i>B. With major work in Dramatics</i>	
Eng. 123-124. Contemporary Drama.....	4

	Credits
Eng. 141-142. Shakespeare.....	6
Eng. 171-172. Advanced Play Production.....	6-12
Eng. 61-62. Elementary Literary Composition.....	4
Eng. 106. Advanced Literary Composition.....	2
or	
Eng. 167-168. Advanced Interpretation or a Period Course in Literature.....	4
<i>Option I. Fifteen or more credits from either A, B, or C:</i>	
A. Philosophy, History, or Sociology courses numbered above 100.	
B. Advanced work above degree requirements in Foreign Language and Literature.	
C. Advanced courses in English.	
<i>Option II. For prospective teachers:</i>	
Fifteen credits in Education, including special methods in teaching of Dramatics, Public Speaking, Composition, and Literature; and work in some other field of study as a minor teaching subject.	

ECONOMICS

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits
Econ. 51-52. Principles of Economics.....	6
Geol. 12. Economic Geography.....	3

REQUIRED

	Credits
Econ. 105-106. Money and Banking.....	6
Econ. 109. Public Finance.....	3
Econ. 112. Labor Problems.....	3
<i>Choice of 17 to 24 credits from:</i>	
Econ. 117. Marketing Farm Products.....	3
Econ. 118. Cooperative Marketing.....	3
Econ. 201. Economics of Enterprise.....	3
Econ. 202. History of Economic Thought.....	3
Bus. 81-82. Principles of Accounting.....	6

	Credits
Bus. 108. Transportation.....	3
Bus. 113. Statistics.....	3
Bus. 141. Foreign Trade.....	3
Bus. 167. Government Regulation of Business.....	3
Bus. 169. Marketing.....	3
Bus. 193-194. Business Conditions.....	6
<i>Fifteen Credits as follows:</i>	
Fifteen credits from courses numbered above 100 in the following subjects to be chosen with the approval of the adviser; 10 credits to be in one field: History, Philosophy, Political Science, Psychology, Sociology.	

ENGLISH

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits
Courses in Public Speaking (Eng. 31-32, 35, 36); Dramatics (Eng. 33-34, 71-72); or Journalism (Eng. 81-82).....	4-6

These courses should be elective in the Senior College without credit, provided they cannot be secured in the Junior College; by special permission they may be taken for the Art requirement.

REQUIRED

	Credits
Eng. 132. Chaucer and Middle English.....	3
Eng. 141-142. Shakespeare.....	6
Eng. 115-116. Romantic Prose and Poetry.....	4
Eng. 117-118. Victorian Prose and Poetry.....	4

	Credits		Credits
Eng. 119-120. American Literature.....	6	Eng. 131. Old English Language and Literature.....	3
Eng. 129-130. Outlines of English Literature	2	Eng. 113-114. The Restoration and Queen Anne Ages.....	4
<i>Option I. Fifteen or more credits from either A, B, or C</i>		Eng. 123. Contemporary English and American Drama.....	2
A. Philosophy, History, or Sociology courses numbered above 100.		Eng. 124. Contemporary European Drama	2
B. Advanced courses in Foreign Lan- guage and Literature.		Students expecting to do graduate work in English or looking forward to college teaching or teaching in large high schools are recommended to elect the course in Old English Language and Literature.	
C. Advanced courses in Journalism, Dramatics, and Public Speaking.		Only the Shakespeare course and the American Literature are likely to be offered every year; the other required courses will probably be offered in alternate years.	
<i>Option II. For prospective teachers</i>		A comprehensive examination covering this curriculum will be required at end of the Senior year in 1932 and thereafter. See paragraph "E" under English in Part V.	
Fifteen credits in Education, including special methods in teaching Literature and Composition, Public Speaking and Dram- atics, and Journalism; and work in some other field of study as a minor teaching subject.			
SUGGESTED ELECTIVES			
Eng. 121-122. The Modern Novel.....	4		

EUROPEAN HISTORY

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits		Credits
Hist. 21-22. History of the Americas.....	6	Hist. 121. Reconstruction Period.....	3
Choice of:		Hist. 122. America, a World Power.....	3
Hist. 1-2. History of Civilization.....	6	Pol.Sci. 125. Comparative Government.....	3
Hist. 13-14. Classical Civilization.....	6	Soc. 141-142. Principles of Sociology.....	6
REQUIRED		Eng. 175-176. Readings in European Literature.....	4
Hist. 103-104. Renaissance and Reformation.....	6	SUGGESTED ELECTIVES	
Hist. 105-106. Recent Times.....	6	History.....	8
Hist. 107-108. English History.....	6	Education.....	6
Hist. 113-114. Economic History.....	6	Philosophy.....	6

FRENCH

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

History 13-14. Classical Civilization, specified as part of the Junior College curriculum.		REQUIRED		Credits
<i>Sequence I</i>		Fr. 111-112. Advanced Composition and Conversation.....	4	
Fr. 1n-2. Elementary French.....	8	Fr. 121-122. Survey of French Literature.....	6	
Fr. 13-14. Intermediate French.....	8	Fr. 135-136. The Nineteenth Century.....	6	
<i>Sequence II</i>		Fr. 141-142. The Seventeenth Century.....	6	
Fr. 13-14. Intermediate French.....	8	Choice of:		
Fr. 21-22. Advanced Sophomore French.....	4	Fr. 145-146. Contemporary Literature.....	6	
RECOMMENDED PREPARATION		Fr. 161-162. French Civilization.....	4-6	
German, Greek, Latin, or Spanish should be elected in the Sophomore year, if possible.		Hist. 141-142. French Civilization.....	4	
		Eng. 175-176. Readings in European Literature.....	4	
		A reading knowledge of another foreign language.		

GEOLOGY

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits		Credits
Math. 1-2. Freshman Mathematics.....	8	Geol. 101. Advanced Physiography.....	3
Chem. 1-2. General Chemistry.....	8	Geol. 102. Advanced Stratigraphy.....	3
Phys. 3-4. General Physics.....	8	Geol. 103-104. General Mineralogy.....	6
Geol. 1-2. Introductory, Historical and Physical Geology.....	8	Geol. 108. Rock Minerals and Rocks.....	2
Bot. 1. General Botany.....	4	Geol. 151. Non-Metalliferous Deposits.....	3
or		Geol. 152. Ore Deposits.....	4
Zool. 1. General Zoology.....	4	Geol. 161. Structural Geology.....	3

Seven credits from the following list:

	Credits		Credits
Geol. 163. Optical Mineralogy.....	3	Geol. 111. Introductory Paleontology.....	3
Geol. 164. Petrography	3	SUGGESTED ELECTIVES	
Geol. 162. Sedimentation	3	Geol. 155. Mineragraphy	2
Geol. 153. Petroleum Geology.....	3	Geol. 141-142. Current Geological Literature	2
Geol. 130-131. Geological Field Methods.....	3	Geol. 123.....	3

GERMAN

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

Hist. 13-14. Classical Civilization, specified as part of the Junior College curriculum.

Credits

Ger. 1-2. Elementary German.....	8
Ger. 13-14. Intermediate German	8

RECOMMENDED PREPARATION

French, Greek, Latin, or Spanish should be elected in the Sophomore year, if possible.

REQUIRED**Credits**

Ger. 111-112. Advanced Composition and Conversation.....	4
Ger. 121-122. Survey of German Literature	6
Ger. 135-136. The Nineteenth Century.....	6
Ger. 141-142. Schiller	6
Ger. 143-144. Goethe	6
Hist. 151-152. German Civilization.....	4
Eng. 175-176. Readings in European Literature	4
A reading knowledge of another foreign language.	

GREEK

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

Hist. 13-14. Classical Civilization, specified as part of the Junior College curriculum.

Credits

Greek 1n-2. Elementary Greek.....	8
Greek 3-4. Intermediate Greek.....	8

RECOMMENDED PREPARATION

One, or, if possible, two years of Latin, French, or German.

REQUIRED

Greek 101. Plato	3
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Credits

Greek 102. Greek Tragedy	3
Greek 103. Herodotus	3
Greek 104. Theocritus	3
Greek 105. Greek Lyrical Poetry.....	3
Greek 106. New Testament Greek.....	3
Greek 107. History of Greek Literature.....	2
Greek 108. Archeology	2
Hist. 103-104. Renaissance and Reformation	6
C.L. 60. Classical Art.....	2

HOME ECONOMICS**(General)**

(For the degree of Bachelor of Science in Home Economics.)

PREREQUISITES

See statement of Freshman and Sophomore courses under Junior College, Part III.

JUNIOR YEAR

	Credits	
	First Sem.	Sec. Sem.
H.Ec. 101-102. Selection and Preparation of Foods, Marketing and Serving.....	3	3
Bact. 51. General Bacteriology	4	
Chem. 54. Carbon Compounds.....	3	
H.Ec. 131. House Management and Sanitation	2	
H.Ec. 152. Methods of Teaching Home Economics.....	2	
H.Ec. 136. The Family	2	
H.Ec. 141. Interior Decorating..	2	
H.Ec. 135. Child Development....	2	
Elective	3	6
	16	16

SENIOR YEAR**Credits****First Sem.****Sec. Sem.**

H.Ec. 103-104. Dietetics	3	3
H.Ec. 105. Advanced Clothing....	2	
H.Ec. 106. Dressmaking and Millinery		2
H.Ec. 133. Practice Cottage	(2)	2
or		
H.Ec. 157. Observation and Teaching in H.Ec.	4	(4)
H.Ec. 153. Methods in Related Art and Science	2	
Soc. 141. Prin. of Sociology.....	3	
Elective	2	5-7
	16	14

Seven credits in Education must be elected by those who desire a teacher's certificate.

HOME ECONOMICS**(Food and Nutrition)**

(For the degree of Bachelor of Science in Home Economics.)

PREREQUISITES

See statement of Freshman and Sophomore courses under Junior College, Part III.

JUNIOR YEAR

	Credits	
	First Sem.	Second Sem.
Chem. 101-102. Organic Chemistry.....	4	4
H.Ec. 101-102. Selection and Preparation of Food, Marketing and Serving.....	3	3
Bact. 51. General Bacteriology.....	4	
H.Ec. 152. Methods of Teaching Home Economics.....	2	
H.Ec. 136. The Family.....	2	
H.Ec. 131. House Management and Sanitation.....	2	
Elective.....	3	5
	16	16

SENIOR YEAR

	Credits	
	First Sem.	Second Sem.
H.Ec. 103-104. Dietetics.....	3	3
H.Ec. 133. Practice Cottage..(2)	2	
or		
H.Ec. 157. Observation and Teaching in H.Ec.....	4	(4)
Chem. 111. Biochemistry.....	4	
H.Ec. 135. Child Development.....	2	
Soc. 141. Prin. of Sociology.....	3	
Elective.....		7-9
	16	14

Nine credits in Education must be elected by those desiring to teach.

JOURNALISM

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITESAbility to use the typewriter.
Psych. 1 specified as part of the Junior College curriculum.**Credits**Eng. 81-82. Elements of Journalism.....4
An elementary course in a science not included in the Junior College curriculum.**REQUIRED**

Eng. 181-182. Reporting.....	8
Eng. 183. Editorial Writing.....	3
Eng. 184. News Editing.....	2
Eng. 185. History of Journalism.....	2
Eng. 186. Special Feature Articles.....	3
Eng. 191. Ethics of Journalism.....	2

	Credits
Eng. 192. Law of the Press.....	2
SUGGESTED ELECTIVES	
Eng. 83-84. College Journalism.....	1-4
Eng. 197. Community Newspaper.....	2
Eng. 198. High School Journalism.....	2
Bus. 165-166. Business Law.....	3-6
Bus. 175. Principles of Advertising.....	3
Soc. 141. Principles of Sociology.....	6
Econ. 51-52. Principles of Economics.....	6
Pol.Sci. 51-52. American Government.....	6
Eng. 105-106. Advanced Literary Composition.....	2-4
Advanced course in Literature or advanced credit in a chosen field.	

LATIN

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

Hist. 13-14. Classical Civilization, specified as part of the Junior College curriculum.

*Two years of Latin from the following:
Sequence I***Credits**

Lat. 1n-2. Elementary Latin.....	8
Lat. 3-4. Intermediate Latin.....	8
<i>Sequence II</i>	
Lat. 3-4. Intermediate Latin.....	8
Lat. 51. Pliny's Letters.....	3

REQUIRED

Lat. 51. Pliny's Letters*.....	3
Lat. 52. Latin Comedy.....	3
Lat. 101-102. Horace and Livy.....	6
Lat. 111-112. Prose Composition.....	4
Lat. 121-122. Directed Reading.....	6
Lat. 123. History of Latin Literature.....	2
Lat. 124. Teachers' Course.....	2
Lat. 125-126. Pro-Seminar.....	4
C.L. 53-54. Scientific Terminology.....	4

*If not taken in Junior College.

LAW

(A combined Six-Year Curriculum for the degrees of B.A. and LL.B. For the general requirements of the degree of Bachelor of Arts, see page 40, for the first year of Law see College of Law Section, Part III)

PREREQUISITES

The Junior College curriculum; and two years in one foreign language in addition to two units for admission.

REQUIRED

Math. 1. Freshman Mathematics. 4 credits.

Completion of 30 credit-hours, including 12 credits in courses numbered above 100.

SENIOR YEAR

	Credits
Law (first year).....	25

MATHEMATICS

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES

	Credits
Math. 1-2 or 11-12. Freshman Math.....	8-10
Physics 3-4. General Physics	8

REQUIRED

Math. 51-52. Calculus	8
Math. 111. Higher Algebra	3
Math. 112. Higher Geometry.....	3
Math. 121-122. Advanced Calculus	6

Mechanics (Analytical or Technical)....	5-6
Math. 102, 104, or 142 may be substituted for part of required mechanics.	

SUGGESTED ELECTIVES

Phil. 103. Logic.....	3
Advanced work in Natural Science or Social Science where Mathematics may be applied.	
Education.	

MUSIC

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits
Social Science may be postponed to the Junior year if necessary.	

Mus. 1-2. Sight Singing	4
Mus. 11-12. Advanced Sight Singing.....	4
Applied Music (Piano, Voice, Cello, or Violin)	4-12
Mus. 3-4. Harmony	4
Mus. 5-6. Harmony	4
Mus. 13-14. Key Board Harmony.....	2
Foreign Languages.....	8-16

REQUIRED

Proficiency test for admission to Junior courses in applied music.

Completion of Foreign Language Requirement.	
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Credits

Advanced courses in Literature, Foreign Language, Art, or Education.....	8-12
Mus. 101-102. History of Music	4
Mus. 103-104. Form and Analysis.....	4
Applied Music (Piano, Voice, Cello, or Violin)	16

SUGGESTED ELECTIVES

Mus. 55-56. Music Appreciation.....	2
Applied Music (Piano, Voice, Cello, or Violin)	8-16
Phys. 54. Music and Sound	4
Ensemble	2-4

MUSIC

(For the degree of Bachelor of Music.)

PREREQUISITES

See statement of Freshman and Sophomore courses under Junior College.

REQUIRED

Proficiency test for admission to Junior courses in applied music.

	Credits
Mus. 101-102. History of Music.....	4
Mus. 103-104. Form and Analysis.....	4
Mus. 105-106. Counterpoint	4
Mus. 109-110. Elementary Composition.....	4
Mus. 111-112. Instrumentation	4
Advanced courses in Literature, Foreign Language, Art, or Education.....	8
A. For those studying Piano	
Mus. 117-118. Instrumental Ensemble.....	2
Mus. 119-120. Accompanying	2

Mus. 125-126. Piano	10
Mus. 127-128. Piano	10

B. For those studying Voice

Mus. 135-136. Voice	10
Mus. 137-138. Voice	10
Mus. 35-36. Glee Club.....	4

C. For those studying Violin

Mus. 145-146. Violin	10
Mus. 147-148. Violin	10
Mus. 45-46. Orchestra	4

D. For those studying Cello

Mus. 161-162. Cello	10
Mus. 163-164. Cello	10
Mus. 45-46. Orchestra	4

SUGGESTED ELECTIVES

Phys. 54. Music and Sound	4
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PHILOSOPHY

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES

	Credits
Phil. 51-52. History of Modern Philos....	6

REQUIRED

Phil. 101-102. Ethics	6
Phil. 105. Philosophy of Religion.....	3
Phil. 106. State and Individual.....	3
Additional credits in Philosophy courses numbered above 100.....	12

SUGGESTED ELECTIVES

Advanced Science*.....	10-18
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Credits

Advanced courses in:	
History	10-18
Literature and Composition.....	10-18
Political Science.....	10-18
Sociology	6
Economics	10-18
Business	10-18
Education	15

*Continuation of Sciences already begun.

PHYSICS

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES		Credits			Credits
Phys.	3-4. General Physics	8	Phys.	131. Electricity and Magnetism	2
	or		Phys.	133. Electrical Measurements	2
Phys.	11-12. Engineering Physics	10	Phys.	152. Advanced Heat	4
Chem.	1-2. General Chemistry	8	Phys.	141. Advanced Light	4
Math.	1-2. Freshman Mathematics	8	Phys.	161-162. Pro-Seminar	4
Math.	51-52. Calculus	8	SUGGESTED ELECTIVES		
REQUIRED			Phys.	191-192. Modern Physics	8
Phys.	121-122. Analytical Mechanics	6	Math.	101. Engineering Mathematics	3
			Math.	121-122. Advanced Calculus	6

POLITICAL SCIENCE

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES		Credits	SUGGESTED ELECTIVES		Credits
Pol.Sc.	51-52. American Government	6	Soc.	141-142. Principles of Sociology	6
REQUIRED			Bus.	165-166. Business Law	6
Pol.Sc.	123. State Government	3	Bus.	167. Government Regulation	3
Pol.Sc.	124. City and County Government	3	of Business	193-194. Business Conditions	6
Pol.Sc.	125. Comparative Government	3	Econ.	105-106. Money and Banking	6
Pol.Sc.	126. Theory of the State	3	Econ.	109. Public Finance	3
Pol.Sc.	132. Political Parties	2	Econ.	112. Labor Problems	3
Pol.Sc.	136. American Constitution	3	Econ.	202. History of Econ. Thought	3
Pol.Sc.	137. International Relations	3	Hist.	105-106. Recent Times	6
Economics, Sociology, Philosophy,	History (six to ten credits in one field)	20	Hist.	115-116. American Diplomacy	6
The particular aim of the student will be considered in making specific recommendations. If necessary, adjustments will be made for the students who expect to teach.			Hist.	122. America a World Power	3
			Hist.	113-114. Economic History	6
			Hist.	137-138. English Constitutional History	4
			Phil.	106. State and Individual	3
			Law	272. International Law	2

PRE-MEDICAL STUDIES

(For the degree of Bachelor of Science [Pre-Med.].)

PREREQUISITES		Credits	SENIOR YEAR		Credits
See statement of Freshman and Sophomore courses under Junior College.			OPTION I.—Completion of the first year of medical study at an approved college of medicine.		
JUNIOR YEAR. REQUIRED			OPTION II.—Completion of following courses:		
Eng.	155. Technical Writing	3	Zool.	105-106. Human Physiology	6
Chem.	101-102. Organic Chemistry	8	Chem.	111-112. Biochemistry	6
Zool.	113. Embryology	4	Zool.	115-116. Cytology	8
Zool.	109. Histology	4	Zool.	151-152. Photo Technique	4
Zool.	110. Histological Research	2	Zool.	111. General Neurology	4
Bact.	51. General Bacteriology	4	Zool.	118. Parasitology	4
Bact.	104. Pathogenic Bacteriology	4	Electives		4
Electives other than Science		8			
		37			36

PRE-NURSING STUDIES

(For the degree of Bachelor of Science [Pre-Nurs.].)

PREREQUISITES		Credits	SENIOR YEAR		Credits
See statement of Freshman and Sophomore courses under Junior College.			OPTION I.—Graduation from an approved school of nursing.		
JUNIOR YEAR. REQUIRED			OPTION II.—Completion of following courses:		
Zool.	103-104. Human Anatomy	4	Zool.	109. Histology	4
Zool.	105-106. Human Physiology	6	Zool.	110. Histological Tech.	2
Chem.	101-102. Organic Chemistry	8	Zool.	115. Cytology	4
Eng.	155. Technical Writing	3	Bact.	104. Pathogenic Bact.	4
Electives, of which 9 must be other than Science		15	Electives*		22
		36			36

*Twenty of these credits must be in hundreds courses.

PSYCHOLOGY

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES		Credits	
Phys. 3-4. General Physics.....	8	Psych. 121-122. Advanced Psychology.....	8
Chem. 1-2. General Chemistry.....	8	Additional credits, selected from courses in Psychology open to undergraduates and numbered above 100.....	
Zool. 1-2. General Zoology.....	8	Zool. 105-106. Human Physiology.....	6
Zool. 4. Comparative Anatomy of Vertebrates.....	4	Zool. 111. General Neurology.....	4
Psych. 1. General Psychology.....	4	Zool. 113 or 109. Embryology or Histology.....	4
Psych. 2 or 4. Educational or Applied Psychology.....	3-4	Chem. 51. Qualitative Analysis.....	4
REQUIRED		Chem. 101-102. Organic Chemistry.....	8
Psych. 117. Psychological Methods.....	3		

SPANISH

(For the general requirements of the degree of Bachelor of Arts see page 40)

PREREQUISITES		REQUIRED	
Hist. 13-14. Classical Civilization, specified as part of the Junior College curriculum.		Credits	
<i>Sequence I</i>		Span. 111-112. Advanced Composition and Conversation.....	4
Span. 1n-2. Elementary Spanish.....	8	Span. 121-122. Survey of Spanish Literature.....	6
Span. 13-14. Intermediate Spanish.....	8	Span. 135-136. Nineteenth Century.....	6
<i>Sequence II</i>		Span. 141-142. The Golden Age.....	6
Span. 13-14. Intermediate Spanish.....	8	Choice of:	
Span. 21-22. Ad. Sophomore Spanish.....	4	Span. 147-148. Contemporary Literature.....	6
RECOMMENDED PREPARATION		Span. 161-162. Directed Reading.....	4-6
French, German, Greek, or Latin should be elected in the Sophomore year, if possible.		Hist. 161-162. Spanish Civilization.....	4
		Eng. 175-176. Readings in European Literature.....	4
		A reading knowledge of another foreign language.	

ZOOLOGY

(For the general requirements of the degree of Bachelor of Science see page 40)

PREREQUISITES		SUGGESTED ELECTIVES	
Zool. 1-2. General Zoology.....	8	Bot. 54. Systematic Botany.....	3
Zool. 4. Comparative Anatomy of Vertebrates.....	4	Bot. 122. Morphology.....	4
Chem. 51-52. Qualitative Analysis.....	4	Chem. 101-102. Organic Chemistry.....	8
Chem. 1-2. General Chemistry.....	8	Bact. 51. General Bacteriology.....	4
RECOMMENDED PREPARATION		Zool. 53. Invertebrate Zoology.....	4
Ent. 101. General Entomology.....	3	Zool. 68. Ornithology.....	3
Bot. 1. General Botany.....	4	Zool. 103-104. Human Anatomy.....	4
REQUIRED		Zool. 105-106. Human Physiology.....	6
Zool. 58. Heredity and Eugenics.....	2	Zool. 111. General Neurology.....	4
Zool. 107. Organic Evolution.....	3	Zool. 116. Cytology.....	4
Zool. 109. Histology and Organology.....	4	Zool. 118. Parasitology.....	4
Zool. 110. Histological Technique.....	2	Zool. 119-120. Thesis.....	2
Zool. 113. Embryology.....	4	Zool. 151-152. Photographic Technique.....	4
Zool. 115. Cytology.....	4	Chem. 111. Biochemistry.....	4
Zool. 161-162. Pro-Seminar.....	4	Bot. 102. Plant Physiology.....	4
		Bot. 104. Plant Histology.....	3
		Education.....	15

The College of Agriculture

EDWARD JOHN IDDINGS, M.S.....	<i>Dean of the College</i>
CHARLES WILLIAM HUNGERFORD, PH.D.....	<i>Assistant Dean</i>
AGNES KERR HITE.....	<i>Secretary of the College Faculty</i>
FLOYD WARNICK ATKESON, M.S.(AGR.).....	<i>Chairman of the Scholarship Committee</i>
HERBERT ELMER LATTIG, M.S.(ED.).....	<i>Chairman of the Curriculum Committee</i>
HAROLD WATKINS HULBERT, M.S.(AGR.).....	<i>Chairman of the Publications Committee</i>

THE equipment of the College of Agriculture and Agricultural Experiment Station at Moscow consists of 612 acres of deeded and leased land and eleven permanent buildings. In addition the University owns or leases for purposes of agricultural experiments 750 acres located at five other points in the State.

The equipment for agricultural instruction consists of Morrill Hall, used as a central office, classroom, and laboratory building; dairy building; horticultural by-products building; green houses; dairy-cattle, horse, sheep, and beef-cattle barns; poultry house, and poultry-service building; carefully selected herds of purebred livestock; 75 acres devoted to experimental work in plant breeding, variety tests, and crop rotation; 55 acres of orchard and garden; 232 acres of pasture and green forage for horses, beef cattle, dairy cattle, sheep and swine; 100 acres of corn, peas, and oats, and other silage crops; and 150 acres of meadow.

LABORATORIES

AGRICULTURAL CHEMISTRY.—This laboratory is fully equipped with all the necessary apparatus for complete courses in all the branches of agricultural, dairy, and soil chemistry, and special research. Reference books, technical bulletins, and journals are on file in the department library.

AGRICULTURAL ECONOMICS.—Facilities for instruction and research are provided in the office in Morrill Hall. An office library is maintained which contains the chief sources of agricultural statistics, both historical and current, together with bulletins, textbooks, and periodicals. Electric calculating machines and other devices are at hand as an aid to research.

AGRICULTURAL ENGINEERING.—The laboratories contain levels, transits and other equipment for surveying; a large number of gasoline engines, automobiles, and tractors; an acetylene welding outfit and a fully equipped shop and tool room; up-to-date farm machines commonly found on the average farm in Idaho; a test brake for determining the belt horse-power and a tractor dynamometer for determining the draw-bar horse-power of tractors. Pumps, tanks, weirs, and current meters are available for practice in irrigation measurements.

AGRONOMY.—A large, well equipped laboratory is used for instructional work in grain and forage-crop identification, market grading and judging. A

special laboratory is provided for seed testing and advanced research in crops. The department operates a 75-acre tract of land for experimental and demonstration work, which is used to supplement the laboratory courses. The soil laboratories are well equipped with modern apparatus for soil physics.

ANIMAL HUSBANDRY.—Facilities for training in the various phases of the livestock industry are available in the herds and flocks maintained on the University Farm and in laboratories equipped to meet the needs of detailed study. Twenty-five Percheron horses; 75 Hereford and Shorthorn cattle; 175 sheep representing the Rambouillet, Hampshire, Suffolk, Southdown, and Lincoln breeds; and 100 Duroc Jersey and Poland China swine comprise the herds and flocks. A privately owned modern packing plant with Federal meat inspection service is available and supplements the work offered in the production and processing of meats. Equipment is available for studies of wool. An animal clinic with modern equipment offers laboratory facilities for study of the anatomy, physiology and disease of farm animals.

BACTERIOLOGY.—The Department of Bacteriology occupies five large rooms on the first floor of Science Hall. The laboratories are well equipped for teaching and research work. The student laboratory is adjacent to research laboratories where studies are being made on human and animal diseases and also on agricultural and industrial problems, thus offering the student an excellent opportunity for observation in research methods. Leading national and foreign publications in bacteriology are on file in the library.

BOTANY.—In the College of Letters and Science.

DAIRY HUSBANDRY.—Facilities for instruction in dairying include the creamery laboratory, provided with the usual equipment found in commercial creameries and milk plants, and complete apparatus for the manufacture of butter, cheese and ice cream. In addition, there is a well equipped laboratory for research work. For practice in judging and for other laboratory work the University maintains a herd of 90 head of dairy cattle, representing the Jersey and Holstein breeds. Of these complete milk and butter-fat records are kept.

ENTOMOLOGY.—The Department of Entomology occupies three large rooms on the fourth floor of Science Hall. The laboratories are equipped with apparatus necessary for teaching and research work. A well arranged insect collection is available for study and comparison. The university is in an area rich in its varied, unique insect fauna due to the differences in altitude, soil types, and degrees of cultivation within short distances of the campus.

HORTICULTURE.—Courses in Horticulture include instruction in four divisions; i. e., pomology, olericulture, floriculture, and landscape gardening. For laboratory instruction in pomology use is made of our fruit plantations. A well equipped building is used for grading and packing of fruits and storage. Much of the gardening work is carried on in the field, where ample land is available. Equipment includes greenhouse facilities, hot beds, garden

tools, and tractor. Two greenhouses containing a miscellaneous collection of plants furnish material for courses in floriculture.

PLANT PATHOLOGY.—Facilities for instruction in Plant Pathology include offices, two well equipped laboratories, a reading room containing suitable reference material, and a greenhouse with modern equipment for both elementary and advanced study and research.

POULTRY.—A new poultry plant now provides facilities for the training of students in practical poultry management and in special problem work. The main building houses facilities for instruction in judging, incubation, candling, preparation of poultry products for market and a study of poultry feeds. A new laying house provides opportunity for instruction in poultry housing and flock management. A flock of 800 birds is maintained including different varieties. A library, maintained in the office in Morrill Hall, is provided with all the latest books, magazines and bulletins.

ZOOLOGY.—In the College of Letters and Science.

ADMISSION

Admission requirements* are presented in Part II of this catalog.

DEGREES

Curricula of study are offered toward the degree, Bachelor of Science in Agriculture. Requirements for the degree, Master of Science in Agriculture, will be found in the section of the catalog devoted to the Graduate School.

Instruction is given in Agricultural Chemistry, Agricultural Economics, Agricultural Education, Agricultural Engineering**, Agronomy, Animal Husbandry, Bacteriology, Dairy Husbandry, Entomology, Horticulture, Plant Pathology, Poultry Husbandry, Soils, and Veterinary Science.

All students pursue the same curriculum through the Freshman and the Sophomore years. At the beginning of the Junior year a major agricultural subject is chosen. Majors may be chosen in any department in the College of Agriculture or in general agriculture.

The teacher-training curriculum in vocational agriculture is the course approved by the State Board of Vocational Education for the preparation of Smith-Hughes high-school agriculture teachers. Graduates from this course are eligible for a state high-school certificate valid for five years.

Those who desire a more general course in agriculture, such as will especially fit for county-agent and other extension work, should major in General Agriculture, or will find it possible so to choose electives in one of the other departments in the College of Agriculture as to prepare for work in these fields.

Students in all four-year curricula in the College of Agriculture take the same work in the Freshman and Sophomore years and certain specified requirements in the Junior year.

*Admission to short courses in motor mechanics and dairying is secured from the eighth grade. A special description of the short courses may be had upon application.

**The Curriculum in Agricultural Engineering is offered jointly by the College of Agriculture and the College of Engineering and will be found outlined in the section of the catalog devoted to the College of Engineering. For the degree B.S.(A.E.) see College of Engineering.

CURRICULUM IN AGRICULTURE

FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Eng. 1. English Composition.....	3	Chem. 2. General Chemistry.....	4
Chem. 1. General Chemistry.....	4	Zool. 1. General Zoology.....	4
Bot. 11. General Ag. Botany.....	5	Hort. 2. Intro. to Horticulture.....	4
Agron. 1. General Crop. Prod.....	4	A.E. 4. Gen. Agric. Engin.....	3
Mil. 1. Freshman Military.....	1½	Mil. 2. Freshman Military.....	1½
P.E. 31. Freshman Sports.....	½	P.E. 32. Freshman Sports.....	½
Total.....	18	Total.....	17

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Chem. 53. Organic Chemistry.....	4	Ag. Chem. 2. Ag. Chemistry.....	4
*Soc.Sci. 1. Contemporary Civiliz.....	3	*Soc.Sci. 2. Contemporary Civiliz.....	3
Math. 3. Freshman Mathematics.....	3	Bact. 51. General Bacteriology.....	4
‡A.H. 1. Livestock Industry.....	5	‡D.H. 2. Elements of Dairying.....	4
Mil. 3. Sophomore Military.....	1½	Mil. 4. Sophomore Military.....	1½
P.E. 33. Sophomore Sports.....	½	P.E. 34. Sophomore Sports.....	½
Total.....	17	Total.....	17

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
§Ent. 101. General Entomology.....	3	Econ. 16. Agricultural Economics.....	3
§P.P. 101. General Plant Pathol.....	3	Eng. 155. Technical Writing.....	3
§Agron. 151. General Soils.....	3	Major Requirements.....	12-8
Major Requirements.....	9	†Phys. 1. Elementary Physics.....	4
Total.....	18	Total.....	18

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Minimum Major Requirements.....	7	Minimum Major Requirements.....	4
Selected Courses.....	12	Selected Courses.....	14
Total.....	19	Total.....	18

SUMMARY

Required Basic Courses.....	84 credits or	88 credits**
Major Requirements and Related Courses.....	32	32
Elective.....	26	22
Total Required for Graduation.....	142	142

*The student may select other subjects in social studies instead of Social Science 1 and 2, such electives to be approved by the Dean or major professor.

‡At Southern Branch (Sophomore year): In first semester, substitute General Entomology, 3 credits, and General Soils, 3 credits, for General Animal Husbandry, 5 credits; and in second semester, substitute General Plant Pathology, 3 credits, for Elements of Dairying, 4 credits.

§Students who come from the Southern Branch will substitute General Animal Husbandry, 5 credits, for General Entomology, 3 credits, and General Soils, 3 credits, in the first semester; and will substitute Elements of Dairying, 4 credits, for General Plant Pathology, 3 credits in the second semester.

†Students who present one year of high-school physics for entrance are not required to take Physics 1, and will be allowed twelve elective credits in the second semester of the Junior year.

**Those who enter without high-school physics.

To obtain the recommendation of the faculty for the degree of Bachelor of Science in Agriculture, B.S.(Agr.), the student must, in addition to completing the regular courses of study prescribed by the department in which his major lies, present evidence of having spent at least one summer after his first year in residence at the University in practical farm work on an approved farm; those enrolled in the teacher-training course in agricultural education also must present evidence of having had a total of two years of practical farm experience subsequent to becoming fourteen years of age.

Students who complete at least thirteen credits in Agricultural Education and two credits in Ed. 55, Idaho Law, Manual and Civics, will receive a five-year high-school certificate.

MAJORS

The student is required to select a major prior to or at the beginning of the junior year. Majors may be chosen in any department in the College of Agriculture or in General Agriculture. The head of the department is the student's major professor in each case except in General Agriculture. Those choosing the major in General Agriculture will register with the Dean of the College.

Twenty credits in courses numbered above 100 are required for a major, the courses to be selected by the major department. The student will take twelve credits in other departments, the courses to be selected with a definite objective and approved by the major department. Twenty-two to twenty-six credits are elective.

ADULT SPECIAL STUDENTS

Students who are twenty-one years of age or older may enter as special students and take courses selected to suit their special needs. Such students, by omitting some of the requirements for the degree, may take agricultural courses of direct and practical value in meeting farm production and agricultural marketing problems.

SHORT COURSES

COMMERCIAL DAIRYING

Oct. 31, 1932, to April 2, 1933

The five-months' course in Commercial Dairying is planned to give a practical working knowledge of modern dairying manufacturing methods. The primary object of the course is, however, to train men who will be able successfully to fill responsible positions in dairy manufacturing plants. Efforts are made to place worthy men in desirable positions.

A three-story brick building devoted entirely to the work in dairying provides space for classrooms and laboratories. The equipment includes the necessary machinery and complete equipment for the manufacturing of butter, cheese, and ice cream, and the processing of market milk by modern

commercial methods. Refrigeration is furnished by a five-ton mechanical refrigerating plant. The testing laboratory includes a Mojonnier tester, the most modern machine for testing milk and milk products.

Tuition is free, but each student pays a health fee of \$2 each term, and a Students' Association fee of \$4.25 each term, admitting him to all athletic games played on the campus, covering his subscription to the college paper, and entitling him to other privileges. A deposit of \$5 is required of each student as a breakage fee. All or part of this is refunded at end of the term, depending on the amount of equipment broken. In addition, a few laboratory fees are charged, amounting to about \$5 a year. There is also an extra-curricular fee of \$2.50.

Students who are seventeen years of age or over and who have completed the eighth-grade work will be admitted without examination. Others will be admitted upon submitting evidence of sufficient previous training to undertake the work. The work of the course covers two terms of approximately ten weeks each.

Commercial Dairying Curriculum

FIRST TERM			SECOND TERM		
Course	Hours		Course	Hours	
	Lect.	Lab.		Lect.	Lab.
Cheesemaking	2	5	Buttermaking	2	4
Ice-cream Making.....	2	2	Milk Production	2	4
Farm Dairying.....	1	4	Market Milk.....	2	2
Dairy Bacteriology	2	0	Factory Management	3	0
Dairy Mechanics.....	0	3	Dairy Calculations	2	0
Dairy Calculations	2	0	Dairy Bacteriology	0	4
Market Poultry and Eggs.....	1	2	Scoring Milk, Butter, Cheese and Ice Cream.....	0	2
Factory Tests.....	0	2			
Total.....	10	18	Total.....	11	16

MOTOR MECHANICS

Nine Months' Vocational Course, Sept. 23, 1932 to June 10, 1933

The State Department of Vocational Education has made it possible through its cooperation to give the work in motor mechanics on a nine months' basis. The course consists of practical instruction in repair of automobiles, tractors, and trucks and a working knowledge of modern shop practice.

The work is grouped in special courses such as motor repair, ignition, generators and starting motors, and storage batteries. Machine shop work and oxy-acetylene welding are included in an endeavor to keep the instruction of a commercial character and to meet the needs of the mechanic in charge of shop work or the operation and maintenance of modern power and machine equipment used in agriculture.

The course is under the direction of the Agricultural Engineering Department. In addition to the fees for health, student association, and breakage required of other special students, a general laboratory fee of \$5 a term is required.

Anyone who can show that he will profit by the work offered will be admitted, but those with an eighth grade education or better, are best fitted to take advantage of the courses given.

Curriculum in Motor Mechanics

FIRST SEMESTER			SECOND SEMESTER		
Course	Hours		Course	Hours	
	Lect.	Lab.		Lect.	Lab.
Shop Practice.....	1	3	Tractors and Trucks.....	1	6
Shop Management.....	2	0	Shop Management.....	2	0
Machine Shop.....	0	6	Tops, Bodies, Fenders.....	1	3
Motor Repair.....	2	6	Motor Repair.....	2	6
Ignition.....	2	6	Ignition.....	2	6
Welding.....	1	6	Welding.....	0	3
Chassis.....	1	3	Chassis.....	1	3
Physical Education.....	1	0	Physical Education.....	1	0
			Storage Batteries and Tires....	1	3
Total.....	10	30	Total.....	11	30

TRACTOR SHORT COURSE

Jan. 30, 1933 to Feb. 11, 1933

The Farmers' Tractor Short Course provides two weeks of intensive training in the major repair and maintenance jobs required by the operation of modern power equipment. The first week's instruction includes the shop repair work such as bearing fitting, valve grinding, piston-ring fitting, etc. If the student desires he may take advantage of the shop's modern equipment and overhaul his own engine, tractor or magneto. During the second week special work is provided on the individual tractor and the instruction is conducted by the field men from the various tractor factories. Owners of combines as well as tractors will find the work of benefit.

Students having an eighth grade education or the equivalent and who are at least sixteen years of age may enter the course.

A laboratory fee of \$2, covering the cost of materials used in the shop, is required.

The College of Engineering

IVAN CHARLES CRAWFORD, C.E.....*Dean of the College*
JOHN HUGO JOHNSON, E.E.....*Secretary of the College Faculty*

THE College of Engineering offers curricula in Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, and (in cooperation with the College of Agriculture) Agricultural Engineering.

EQUIPMENT

CIVIL ENGINEERING.—In civil engineering there is a full equipment of field instruments, an unusually well-appointed drafting room, and a materials laboratory containing 200,000-pound and 50,000-pound testing machines. A fully equipped road-materials laboratory is available for the instruction of students and for the service of highway officials throughout the State.

ELECTRICAL ENGINEERING.—This laboratory is equipped to demonstrate the action of the various types of generators, motors, converters, transformers, and other electrical apparatus, by using commercial machines of convenient size. In addition to the photometric and radio laboratories, electrical standardization and vacuum tube testing laboratories are maintained.

MECHANICAL ENGINEERING.—The mechanical laboratory is equipped for experimental work on steam, gas, and oil engines; on gas producers, air compressors, feed pumps and heaters, and injectors; on airplane engines; on automobile motors, carburetors, ignition, and starting apparatus. Facilities are provided for fuel analysis and testing. The University heating and cold storage plants are also available for laboratory work.

CHEMICAL ENGINEERING.—The chemical engineering laboratories are not segregated from those of the Department of Chemistry. Ample laboratory equipment is provided for this curriculum.

AGRICULTURAL ENGINEERING.—The laboratories of all engineering departments are used by the students in this curriculum. The Agricultural Engineering Department possesses well equipped shops and laboratories for its special fields of work.

ADMISSION AND DEGREES

ADMISSION.—For a statement of admission requirements see Part II.

DEGREES.—Curricula are offered in the College of Engineering leading to the degrees of Bachelor of Science in Civil Engineering, B.S.(C.E.); Bachelor of Science in Electrical Engineering, B.S.(E.E.); Bachelor of Science in Mechanical Engineering, B.S.(M.E.); Bachelor of Science in Chemical Engineering, B.S.(Chem.E.); Bachelor of Science in Agricultural Engineering, B.S.(A.E.).

For the requirements for the advanced degrees of Master of Science in the respective branches of engineering, M.S.(C.E.), etc., and the professional engineering degrees, see the description of the Graduate School.

The degree, Bachelor of Science in Agricultural Engineering, B.S.(A.E.), may be granted to students who have completed a four-year course in Civil, Mechanical, or Electrical Engineering followed by one year of prescribed work approved by the faculties concerned.

REQUIREMENTS FOR GRADUATION

Students of all four-year curricula in the College of Engineering, except those registered in Agricultural Engineering, take the same work in the Freshman year, as follows:

COMMON FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Eng. 1. Composition	3	Eng. 1. Composition	3
Math. 11. Freshman Mathematics.....	5	Math. 12. Freshman Mathematics	5
Chem. 1. General Chemistry	4	Chem. 2. General Chemistry	4
C.E. 1. Engineering Drawing.....	3	C.E. 2. Descriptive Geometry.....	3
C.E. 9. Engineering Problems	1	C.E. 10. Engineering Problems	1
Mil. 1. Freshman Military.....	1½	Mil. 2. Freshman Military.....	1½
P.E. 31. Freshman Sports.....	½	P.E. 32. Freshman Sports.....	½
Engineering Lectures		Engineering Lectures	
Total.....	18	Total.....	18

To obtain the recommendation of the faculty for the degree of Bachelor of Science in Civil, Electrical, Mechanical, or Chemical Engineering the candidate must have completed, in addition to the common Freshman year above, the curriculum corresponding to the degree as outlined below.

Candidates for the degree of Bachelor of Science in Agricultural Engineering must have completed the curriculum as shown on page 61. The Freshman year in this curriculum differs slightly from the Freshman year common to the other four divisions of engineering.

The Department of Agricultural Engineering is administered jointly by the Colleges of Engineering and Agriculture.

CURRICULUM IN CIVIL ENGINEERING

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Math. 51. Calculus	4	Math. 52. Calculus	4
Phys. 11. Engineering Physics.....	5	Phys. 12. Engineering Physics.....	5
C.E. 3. Plane Surveying	4	C.E. 4. Topographic Surveying	3
Geol. 1. General Geology	4	C.E. 6. Mechanics (Statics).....	2
Mil. 3. Sophomore Military	1½	C.E. 8. Plane Curves.....	1
P.E. 33. Sophomore Sports.....	½	Mil. 4. Sophomore Military	1½
		P.E. 34. Sophomore Sports.....	½
Total.....	19	Total.....	17

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
C.E. 101. Mechanics (Dynamics).....	2	C.E. 102. Framed Structures.....	3
C.E. 103. Mechanics of Materials.....	3	M.E. 121. Thermodynamics I.....	3
C.E. 105. Highways and Streets.....	2	C.E. 104. Hydraulics.....	3
C.E. 107. Railroad Engineering.....	2	C.E. 106. Reinforced Concrete.....	2
C.E. 109. Materials Laboratory.....	2	Eng. 151. Engineering Reports.....	3
C.E. 113. Railway and Highway Surveying.....	3	E.E. 132. A.C. Machinery.....	2
E.E. 131. D.C. Machinery.....	3	Elective*.....	2
Elective*.....	2		
Total.....	19	Total.....	18

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
C.E. 121. Structural Design.....	3	C.E. 120. Irrigation.....	2
C.E. 123. Steel Structure.....	2	C.E. 122. Water Supply.....	2
C.E. 125. Sewers and Sewerage.....	2	C.E. 124. Contracts & Specifications.....	2
C.E. 127. Water Power Engin.....	2	C.E. 126. Concrete Structures.....	5
C.E. 135. Estimates and Costs.....	2	C.E. 128. Pro-Seminar.....	1
C.E. 137. Statically Indeterminate Stresses.....	3	C.E. 138. Engineering Administration.....	2
Elective*.....	4	Elective*.....	4
Total.....	18	Total.....	18
Total credits required.....		145	

CURRICULUM IN ELECTRICAL ENGINEERING

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
M.E. 5. Machine Drawing.....	2	C.E. 6. Mechanics (Statics).....	2
Math. 51. Calculus.....	4	Math. 52. Calculus.....	4
M.E. 13. Mechanism.....	3	C.E. 3a. Surveying.....	2
M.E. 3. Machine Shop.....	2	Phys. 12. Engineering Physics.....	5
Phys. 11. Engineering Physics.....	5	E.E. 22. Elem. Elec. Engineering.....	3
Mil. 3. Sophomore Military.....	1½	Mil. 4. Sophomore Military.....	1½
P.E. 33. Sophomore Sports.....	½	P.E. 34. Sophomore Sports.....	½
Total.....	18	Total.....	18

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
C.E. 103. Mechanics of Materials.....	3	C.E. 101. Mechanics (Dynamics).....	2
M.E. 121. Thermodynamics I.....	3	C.E. 104. Hydraulics.....	3
E.E. 133. D.C. Machinery.....	3	M.E. 122. Thermodynamics II.....	3
E.E. 135. E.E. Laboratory.....	2	M.E. 124. Machine Design.....	2
Math. 101. Engineering Math.....	3	E.E. 134. A.C. Machinery.....	3
Phys. 131. Elec. and Magnetism.....	2	E.E. 136. E.E. Laboratory.....	2
Phys. 133. Elec. Measurements.....	2	C.E. 109a. Materials Laboratory.....	1
Total.....	18	Eng. 151. Engineering Reports.....	3
		Total.....	19

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
M.E. 128. M.E. Laboratory.....	2	E.E. 142. Electrical Engineering.....	5
E.E. 147. Electrical Engineering.....	5	E.E. 144. E.E. Laboratory.....	2
E.E. 143. E.E. Laboratory.....	2	E.E. 146. Pro-Seminar.....	1
E.E. 145. Pro-Seminar.....	1	E.E. 150. Radio Engineering.....	3
E.E. 147. Electrical Design.....	3	C.E. 124. Contracts & Specifications.....	5
Elective*.....	5	Elective*.....	5
Total.....	18	Total.....	18
Total credits required.....		145	

*Electives must be approved by the Dean of the College of Engineering.

CURRICULUM IN MECHANICAL ENGINEERING**SOPHOMORE YEAR**

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Math. 51. Calculus	4	C.E. 6. Mechanics (Statics)	2
Phys. 11. Engineering Physics	5	Math. 52. Calculus	4
M.E. 13. Mechanism	3	Phys. 12. Engineering Physics	5
M.E. 3. Machine Shop	2	M.E. 4. Foundry	3
M.E. 5. Machine Drawing	2	E.E. 22. Elem. Elec. Engineering....	3
Mil. 3. Sophomore Military	1½	Mil. 4. Sophomore Military	1½
P.E. 33. Sophomore Sports	½	P.E. 34. Sophomore Sports	½
Total	18	Total	19

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
C.E. 101. Mechanics (Dynamics).....	2	M.E. 122. Thermodynamics II.....	3
C.E. 103. Mechanics of Materials.....	3	M.E. 128. M.E. Laboratory	2
M.E. 121. Thermodynamics I.....	3	M.E. 124. Machine Design.....	2
E.E. 133. D.C. Machinery	3	E.E. 134. A.C. Machinery	3
E.E. 137. E.E. Laboratory	2	E.E. 138. E.E. Laboratory	2
C.E. 109. Materials Laboratory.....	2	C.E. 104. Hydraulics	3
M.E. 123. Aerodynamics I	3	Eng. 151. Engineering Reports.....	3
Total	18	Total	18

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
M.E. 133. Steam Power Plants.....	3	M.E. 144. Heating & Ventilation.....	2
M.E. 125. Machine Design	2	M.E. 136. Steam Power Plants.....	2
M.E. 141. Thermodynamics	3	M.E. 142. Airplane Engines.....	2
M.E. 129. Aerodynamics II	3	C.E. 124. Contracts & Specifications	2
M.E. 127. M.E. Laboratory (Gas)	2	M.E. 140. Pro-Seminar	1
Elective*	5	M.E. 150. Thesis	3
Total	18	C.E. 3b. Plane Surveying.....	2
		Elective*	4
		Total	18
Total credits required.....145			

CURRICULUM IN CHEMICAL ENGINEERING**SOPHOMORE YEAR**

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Math. 51. Calculus	4	Math. 52. Calculus	4
Ger. 1. Elementary German.....	4	Ger. 2. Elementary German.....	4
Chem. 51. Qualitative Analysis	4	Chem. 52. Quantitative Analysis	4
Phys. 11. Engineering Physics	5	Phys. 12. Engineering Physics.....	5
Mil. 3. Sophomore Military	1½	Mil. 4. Sophomore Military	1½
P.E. 33. Sophomore Sports	½	P.E. 34. Sophomore Sports	½
Total	19	Total	19

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Eng. 151. Engineering Reports	3	Ger. 16. Scientific German.....	3
Ger. 15. Scientific German	3	C.E. 6. Mechanics (Statics)	2
Chem. 101. Organic Chemistry	4	Chem. 102. Organic Chemistry	4
Chem. 103. Adv. Quant. Analysis.....	3	Chem. 108. Industrial Chemistry.....	2
E.E. 131. Direct Current Mach.....	3	E.E. 132. A.C. Machinery & Lab....	2
M.E. 13. Mechanism	3	M.E. 128. M.E. Laboratory	2
Total	19	Elective*	3
		Total	18

*Electives must be approved by the Dean of the College of Engineering.

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Chem. 113. Chemical Engineering.....	2	Chem. 114. Chemical Engineering.....	4
Chem. 105. Theoretical and Physical Chemistry.....	3	Chem. 106. Theoretical and Physical Chemistry.....	3
C.E. 101. Mechanics (Dynamics).....	2	C.E. 104. Hydraulics.....	3
C.E. 103. Mechanics of Materials.....	3	M.E. 124. Machine Design.....	2
M.E. 121. Thermodynamics I.....	3	C.E. 3b. Plane Surveying.....	2
C.E. 109. Materials Laboratory.....	2	C.E. 124. Contracts & Specifications.....	2
Chem. 109. Thesis.....	1½	Chem. 110. Thesis.....	1½
Total.....	16½	Total.....	17½
Total credits required.....		145	

CURRICULUM IN AGRICULTURAL ENGINEERING

Administered Jointly by the Colleges of Engineering and Agriculture

FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Math. 11. Freshman Mathematics.....	5	Math. 12. Freshman Mathematics.....	5
Eng. 1. Freshman Composition.....	3	Eng. 2. Freshman Composition.....	3
C.E. 11. Engineering Drawing.....	3	D.H. 2. Elements of Dairying.....	4
Bot. 11. General Agr. Botany.....	5	A.E. 4. Agricultural Engineering.....	3
Mil. 1. Freshman Military.....	1½	C.E. 9. Engineering Problems.....	1
P.E. 31. Freshman Sports.....	½	Mil. 2. Freshman Military.....	1½
Engineering Lectures.....		P.E. 32. Freshman Sports.....	½
Total.....	18	Total.....	18

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Math. 51. Calculus.....	4	Math. 52. Calculus.....	4
Phys. 11. Engineering Physics.....	5	Phys. 12. Engineering Physics.....	5
Chem. 1. General Chemistry.....	4	Chem. 2. General Chemistry.....	4
C.E. 3a. Plane Surveying.....	3	C.E. 6. Mechanics (Statics).....	2
Mil. 3. Sophomore Military.....	1½	Mil. 4. Sophomore Military.....	1½
P.E. 33. Sophomore Sports.....	½	P.E. 34. Sophomore Sports.....	½
Total.....	18	Total.....	17

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Eng. 151. Engineering Reports.....	3	Econ. 16. Agricultural Economics.....	3
C.E. 101. Mechanics (Dynamics).....	2	C.E. 104. Hydraulics.....	3
C.E. 103. Mechanics of Materials.....	3	A.E. 12. Farm Water Sup. & San.	2
Agron. 1. General Crop Production.....	4	C.E. 102. Framed Structures.....	3
A.H. 1. Animal Husbandry.....	5	C.E. 106. Reinforced Concrete.....	2
A.E. 33. Gas Engines.....	2	A.E. 132. Farm Machinery.....	2
Total.....	19	C.E. 109a. Materials Laboratory.....	1
		E.E. 22. Elementary Electrical Engineering.....	3
		Total.....	19

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
A.E. 105. Pro-Seminar.....	1	A.E. 106. Pro-Seminar.....	1
Geol. 1. General Geology.....	4	C.E. 124. Contracts & Specifications..	2
E.E. 133. D.C. Machinery.....	3	E.E. 134. A.C. Machinery.....	3
E.E. 137. E.E. Laboratory.....	2	E.E. 138. E.E. Laboratory.....	2
A.E. 161. Irrigation Practice.....	3	A.E. 8. Farm Buildings.....	3
Agron. 151. General Soils.....	4	A.E. 136. Machine Meth. in Agr.....	3
Elective*.....	2	Elective*.....	4
Total.....	19	Total.....	18
Total credits required.....		146	

*Electives must be approved by the Dean of the College in charge.

The College of Law

(The Idaho Law School)

WILLIAM E. MASTERSON, M.A., LL.B., S.J.D., LL.D.Dean

THE Idaho Law School was established in 1909. The attendance during the ensuing years, and the interest shown by students and public have justified the action of the Regents in establishing the school.

The purpose of the Law Curriculum is to give a legal training to students whose preliminary education and maturity have fitted them for serious professional study. It aims to give a thorough knowledge of fundamental legal principles and to develop the power of independent legal reasoning. The curriculum covers a minimum period of three academic years and gives an adequate preparation for the practice of law in any American state.

The College of Law is conducted upon the theory that the teaching of law is a task requiring all the working time of well trained legal scholars who have made special preparation for teaching. The members of the teaching staff do not practice law but give all their time to instruction and research. Their practice of the law, which gives them an appreciation of the law in operation, has preceded their teaching.

The case system of instruction is used, supplemented by collateral reading, the examination of statutes, the solution of problems, and the delivery of reports upon legal questions.

PREPARATION FOR THE STUDY OF LAW

Prospective law students are advised that the successful study and practice of the law demands a relatively high degree of intellectual maturity. Those with sound and thorough preliminary education will have the advantage in the study of law over those who lack such preparation. The experience of law teachers is that the standing and progress of law students may, in general, be measured by the extent and quality of their pre-legal education.

While familiarity with the routine work of the law office is of great value, if not indispensable before the young lawyer can assume the responsibilities of a separate practice, yet if such experience is to be utilized to its full extent it must be preceded by a thorough systematic training in the principles of law. Such a training is to be had only in a law school of high standards.

In 1921, the Association of American Law Schools, an organization at present composed of more than sixty of the leading law schools of the country, unanimously adopted a resolution that, commencing in 1925, all member schools be required to have an entrance requirement of at least two years of college work.

The prospective law student ought to have a substantial general education in the fundamental subjects. He is advised to select in the first two years of his course those subjects that require precision in thought for their

mastery, such as mathematics and foreign languages. Electives to supply an informational background for law study should be found in economics, English, and history. A knowledge of Latin is not indispensable to law study but its study is recommended not only for its disciplinary value, but also as a means of developing a clear, strong English style in writing and speaking.

REQUIREMENTS FOR ADMISSION

Admission requirements are stated in Part II.

PRE-LEGAL COURSE

All students taking courses in the University preparatory to their entrance into the College of Law are requested to consult the Dean of that College before making their final choice of courses to be pursued during such preparatory work.

ADMISSION TO COMBINED COURSE

A student may secure the degrees of Bachelor of Arts and Bachelor of Laws in six years under the following regulation of the College of Letters and Science: Any candidate for the Bachelor of Arts degree, who at the end of the Junior year has completed ninety-eight semester hours and who has satisfied all other requirements of the College of Letters and Science for this degree as specified on page 46 may in his Senior year take the full first year of the law course, and upon completion of the same be entitled to receive the degree of Bachelor of Arts. Upon satisfactory completion thereafter of two years of advanced law study the degree of Bachelor of Laws will be conferred. The same scholarship requirements are in effect for this combined course as for regular admission to the College of Law. See page 28.

No work included in the above ninety-eight credits and counted towards the Bachelor of Arts degree may be counted again toward the LL.B. degree.

ADMISSION TO ADVANCED STANDING

Students who have completed one or more years of study in approved law schools may apply for admission to advanced standing.

No credit will be given for work completed elsewhere than in standard law schools *while in residence at such schools*; therefore, no credit can be given for work done in a law office or by correspondence.

SPECIAL STUDENTS

In rare instances persons who cannot qualify as candidates for the degree of Bachelor of Laws may be admitted as special students on petition to the Committee on Admissions approved by the faculty of the College of Law.

The applicant must show that he is unable to pursue such studies as will qualify him for admission as a regular student, and that he possesses such educational training and practical experience as will enable him to pursue the study of law satisfactorily. Application for permission to enter as a special student should be made in advance of the regular registration period.

It must be distinctly understood that such special students are not candidates for a degree in law.

STUDENTS IN OTHER COLLEGES

Courses in law are open to Junior and Senior students in the College of Letters and Science and in the other colleges, in which they will be credited according to their respective regulations. Before registering, students should consult the Dean of the College of Law.

TRIAL PRACTICE

The student organization of the College of Law, known as the Bench and Bar, holds regular meetings every two weeks, when it is addressed by outstanding lawyers and other professional men. This organization engages in the trial of at least one case each school year. The law faculty assist in drawing up legal papers and mapping out the general plan of procedure. An Idaho judge presides. The student is thus not only well grounded in the theory of the law, but has an opportunity to practice it in the trial of cases.

THE IDAHO LAW JOURNAL

The College of Law now publishes a Law Journal devoted to articles, case notes and comments, book reviews, summaries of current legislation, discussions of the work and organization of the Judicial Council of the state and of the Idaho State Bar, the proceedings of the annual meetings of the Idaho State Bar, and other material of interest to lawyers and law students.

The Board of Editors is composed of the law faculty and representative lawyers of the state, and this board is assisted by a Student Board of Editors, made up of honor students from the second and third year class. This publication is a great asset to students of the law school, and an invaluable aid to practicing lawyers of the state. It gives the students practice in legal research and in logical arrangement and organization of materials.

SPECIAL LECTURERS

It is the policy of the law school to bring to the school each year expert practicing lawyers of the state for series of lectures in specialized subjects. Special lectures are given in the law of water rights, and in mining law, and in special phases of Idaho practice.

EQUIPMENT AND LIBRARY

ROOMS.—The College of Law occupies rooms set apart for its use in the Administration Building at the University. These rooms include recitation rooms, offices for the members of the law faculty, the law library, and study rooms.

LIBRARY.—The law library and study rooms contain a growing law library of more than ten thousand volumes, including the standard digests, textbooks and encyclopedias of law; the statutes of the United States and of a majority of the American states; the reports of the Supreme Court of the United States and most of the state reports prior to the National Re-

porter System; *American Decisions*; *American Reports*; *American State Reports*; *Lawyers' Reports Annotated*; *American Law Reports*; *American and English Annotated Cases*; *English Ruling Cases*; *British Ruling Cases*; *American Negligence and Compensation Cases*; *English Common Law Reports and English Chancery Reports*; *Moak's English Reports and the Law Journal English Reports*, and the *English Reprints*. The National Reporter System, including *Federal Cases*, the *Federal Reporter* and *New York Supplement*. In addition, it contains the leading legal periodicals, and such works as are adapted to general legal instruction, including legal history and development. The general library contains a good selection of works on international law.

ASSOCIATION OF AMERICAN LAW SCHOOLS

The College of Law is a member of the Association of American Law Schools, an organization of more than sixty of the high grade law schools of the United States and Canada. It is given Class A rating by the American Bar Association.

REQUIREMENTS FOR GRADUATION AND DEGREE

Students who have complied with all entrance requirements and have completed the prescribed first-year courses and have obtained forty-eight credits for advanced studies as prescribed by the following outlined courses or equivalents from other schools, and who have spent three years in the study of law at standard law schools, the last year at least having been spent in this school, will receive the degree of Bachelor of Laws (LL.B.) from the University, provided that at least three-fourths of the law credits offered are above grade D.

FEES AND EXPENSES

There is no tuition fee in the College of Law. General expenses are outlined in Part I.

CURRICULUM

The course of study covers three academic years. The prescribed first-year work is required of all students. Each student in the second and third years should take a minimum of twelve hours each semester and may not, during any semester, receive credit for more than fifteen hours.

In courses 101n-102, 105n-106, 115n-116, 201n-202, 221n-222, 257n-258, and 263n-264, no credit will be given for the work of the first semester until the work of the second semester is completed and an examination upon the entire course is passed.

CURRICULUM IN LAW

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Law 101n. Contracts	3	Law 102. Contracts	3
Law 105n. Criminal Law and Procedure	2	Law 106. Criminal Law and Procedure	3
Law 109. Civil Procedure	3	Law 112. Property II	3
Law 111. Property I	3	Law 116. Torts	3
Law 115n. Torts	2		

SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Law 203. Persons	2	Law 202. Equity	3
Law 201n. Equity	3	Law 212. Property IV	2
Law 207. Evidence	4	Law 218. Bills and Notes	3
Law 211. Property III	2	Law 222. Sales	2
Law 214. Agency	2	Law 232. Code Pleading	3
Law 221n. Sales	2	Law 234. Credit Transactions	2
Law 233n. Credit Transactions	2		

THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Law 251. Constitutional Law	4	Law 256. Conflict of Laws	4
Law 253. Private Corporations	4	Law 258. Trusts	2
Law 257n. Trusts	2	Law 262. Partnership	3
Law 281. Research	2	Law 282. Research	2
Law 292. Mining Law		Law 296. Practice Court	
Law 294. The Law of Water		Law 272. International Law	2

The School of Mines

JOHN WELLINGTON FINCH, Sc.D.....Dean

THE University of Idaho, situated in one of the foremost mining regions of the world, appropriately maintains courses in the technology of the mineral industries. Men trained here are in demand.

To enable this work to be carried on effectively, in August, 1917, a School or College of Mines was created as an administrative unit of the University, and its scope was indicated in the following language:

Within this School will be included the work in mining proper, in metallurgy, and in geology; and it shall include the exploitation of the non-metallic minerals (except road-making material) as well as that of the precious and useful metals.

In accordance with these instructions, the School of Mines offers curricula leading to the degrees of Bachelor of Science in Geology, in Mining, and in Metallurgy. For requirements for the degrees of Master of Science in these branches and the professional degrees, E.M., and Met.E., see the description of the Graduate School.

ADVANTAGES OF LOCATION

The region within a radius of 300 miles from Moscow has produced, within the last thirty years, minerals and metals worth more than \$1,000,000,000. In this circle are located many famous mining camps such as the Coeur d'Alene district, Silver City and DeLamar in Idaho; Baker City, Oregon; Butte, Philipsburg, Virginia City, Marysville, in Montana; Trail, Granby, and other districts, in British Columbia. In the active mining centers the precious metals and the industrial metals are produced on a large scale by the most modern equipment, and intensive scientific research is carried on continuously. Such notable operations afford invaluable opportunities to supplement instruction at the School by observation of the best technical practice.

Within the circle are other mineral deposits of less present commercial importance but of unusual variety and great scientific interest; the gold placer and lode mines of central Idaho; lead, copper, mercury, gold, and silver deposits of Blaine, Boise, Boundary, Bonner, Custer, Elmore, and Lemhi counties; rare metals such as beryllium, tungsten, and tin; the unrivaled phosphate beds of southeastern Idaho upon which is based a rapidly growing mining and manufacturing industry; the magnesite deposits of northern Washington; the coal mines of eastern British Columbia and western Washington; and petroleum prospects now being tested.

In addition to such opportunities for the metallurgical and mining student, the state cannot be equalled as a field for the study of general geology of a purely scientific nature. The section of sedimentary rocks ranges from Algonkian to Pleistocene. The igneous rocks are of unusual variety in age and character, pre-Cambrian intrusives, the great Idaho batholith with its numerous differentiates, the middle Tertiary and more recent lava flows

which cover thousands of square miles of territory, and volcanic craters recently active. Nowhere else in the world can the relationship of ore deposition and igneous activities be studied to better advantage.

EQUIPMENT AND FACILITIES

The School of Mines equipment is conveniently described under the three heads of geology, mining, and metallurgy. In addition to the facilities here mentioned the student has the advantage of the well-equipped laboratories of the departments of Mechanical, Electrical, and Civil Engineering, and of Chemistry and Physics, as well as opportunity for studies in English, Economics, History, languages, and other branches in the College of Letters and Science, and enjoys many cultural benefits not obtainable in isolated mining schools that are not connected with universities.

GEOLOGY.—The geological laboratories, museums, and classrooms are in the geology building. Two laboratories are maintained for work in mineralogy, one for general mineralogy and blow-pipe analysis, and another for optical mineralogy and petrography. Working equipment includes representative minerals, both massive and crystalline, for comparative study; oriented thin sections of important rock-forming minerals; crystal models, thin sections, and hand specimens of rocks; natural crystals and artificial crystal models; more than 3000 mineral specimens; over 2000 rock specimens; 1000 specimens illustrating ore deposits; a representative collection of fossils and casts; and equipment such as microscopes, thin-sectioning apparatus, projecting lanterns, and topographic and geologic maps.

MINING AND METALLURGY.—The equipment in mining includes models of mine workings and of mine timbering, rock drills, and mine surveying instruments. Metallurgical, ore dressing, and assay laboratories are among the most complete in the West and equipment includes apparatus for ore treatment, by wet and dry processes; five double-muffle furnaces, coal-fired and oil-fired; a chemical laboratory; parting room and balance room, laboratory crushers; gyratory and jaw crushers; rolls and ball mills; disc pulverizer; screening equipment; several types of concentrating tables; flotation machines of various kinds, including the well known Fahrenwald machine developed at this School; apparatus for leaching and agitation tests for gold and silver extraction; pyrometers; calorimeters; and other equipment.

SCHOOL OF MINES LIBRARY.—Mr. Joseph J. Taylor of Montpelier, one of the pioneer mining engineers of the West, gave to the School of Mines a number of years ago a small but select library of technical books and reports of great value, and upon this nucleus, through gifts and loans from other friends and members of the faculty, an excellent departmental reference and research library has been built up to supplement the University Library for purposes of instruction.

GENERAL INFORMATION

FEES AND EXPENSES.—For a statement of fees and expenses, see Part I.

SPECIAL COURSES.—Special courses will be arranged for students of mature years according to their individual needs and ability.

FIELD GEOLOGY AND PRACTICAL MINING.—The Dean and faculty of the School aid students in securing employment in mining or geological field work during summer vacations. Required courses giving practice and instruction in the field are Geology 130-131 and Mining 106-107.

GRADUATE FELLOWSHIPS.—Three graduate fellowships are offered, carrying an income of \$500 a year each, one in geology and two in metallurgy or mining, the latter supported by the Idaho Bureau of Mines and Geology. Under the direction of Professor Fahrenwald and members of the Idaho Bureau of Mines and Geology staff, two fellows carry on research work for the solution of some of the urgent ore-treatment problems of Idaho and those of a general nature confronting the industry. The geology fellow, under Professor Laney, is assigned geologic research in field and laboratory, generally upon a problem connected with the mineral industry of the state.

THESES.—Senior students are assigned individual investigation upon problems of their own choice and an acceptable thesis is a requirement for graduation.

THE JEROME J. DAY SCHOLARSHIP.—Mr. Jerome J. Day of Moscow has established in the School of Mines a loan scholarship to be awarded each year to seniors. Details of this scholarship will be found on page 13.

ADMISSION

For a statement of admission requirements see Part II.

CURRICULA

The courses offered rank with those of the leading mining schools of the country. Students in all three curricula, viz., Geology, Mining, and Metallurgy, take the same work in the Freshman and Sophomore years. It is necessary for the student to decide before the close of his Sophomore year which curriculum he expects to follow thereafter. Until this time, he has ample opportunity to make a deliberate and thoughtful choice as his ambitions become defined and his aptitudes tested.

COMMON TO ALL OPTIONS

FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Min. 1. Mineral Industry.....	1	Min. 2. Mineral Industry.....	1
Eng. 1. English Composition.....	3	Eng. 2. English Composition.....	3
Math. 1. Freshman Mathematics.....	4	Math. 2. Freshman Mathematics.....	4
Chem. 1. General Chemistry.....	4	Chem. 2. General Chemistry.....	4
C.E. 1. Engineering Drafting.....	3	C.E. 2. Descriptive Geometry.....	3
C.E. 9. Engineering Problems*.....	1	Mil. 2. Freshman Military.....	1½
Mil. 1. Freshman Military.....	1½	P.E. 32. Freshman Sports.....	½
P.E. 31. Freshman Sports.....	½		
Total.....	18	Total.....	17

*Required only for students taking Mining and Metallurgy option.

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Geol. 1. Introductory Geology.....	4	Geol. 2. Historical Geology.....	4
Geol. 103. General Mineralogy.....	3	Phys. 12. Engineering Physics.....	5
Phys. 11. Engineering Physics.....	5	Geol. 104. General Mineralogy.....	3
Math. 51. Calculus.....	4	Math. 52. Calculus.....	4
Mil. 3. Sophomore Military.....	1½	Mil. 4. Sophomore Military.....	1½
P.E. 33. Sophomore Sports.....	½	P.E. 34. Sophomore Sports.....	½
		Met. 104. Fire Assaying.....	1
Total.....	18	Total.....	19

GEOLOGY OPTION

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Chem. 51. Qualitative Analysis.....	4	Geol. 152. Geology of Ore Deposits..	4
C.E. 3a. Plane Surveying.....	3	C.E. 4. Topographic Surveying....	3
Met. 105. Fire Assaying, Lab.....	2	Geol. 130. Geological Field Methods..	1
Geol. 101. Advanced Physiography....	3	Econ. 54. Economics for Technical	
Geol. 151. Geology of Non-Metal-		Students.....	3
liferous Deposits.....	3	Met. 102. General Metallurgy.....	2
Geol. 111. Introductory Paleontology	3	Geol. 102. Advanced Stratigraphy....	3
		Min. 106. Mine Surveying.....	2
Total.....	18	Elective.....	2
		Total.....	20

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Geol. 163. Optical Mineralogy.....	3	Geol. 164. Petrography.....	3
Geol. 155. Mineragraphy.....	2	Geol. 190. Principles of Geophysics..	3
Geol. 153. Petroleum Geology.....	3	Min. 108. Mine Rescue.....	1
Min. 101. Elements of Mining.....	3	Min. 110. Senior Trip.....	2
Geol. 131. Geological Field Methods..	2	Geol. 194. Thesis.....	1
Min. 107. Mine Surveying.....	2	Eng. 151. Engineering Reports.....	3
Met. 103. General Metallurgy, Lab. 1		Elective.....	6
Geol. 161. Structural Geology.....	3		
Total.....	19	Total.....	19

Total credits required for graduation.....148

MINING OPTION

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Min. 101. Elements of Mining.....	3	Chem. 52. Quantitative Analysis.....	4
Chem. 51. Qualitative Analysis.....	4	C.E. 4. Topographic Surveying....	3
C.E. 3a. Plane Surveying.....	3	Geol. 108. Rock Minerals and Rocks	2
Met. 105. Fire Assaying, Lab.....	2	Met. 102. General Metallurgy.....	2
Eng. 151. Engineering Reports.....	3	Phys. 122. Analytical Mechanics.....	3
Phys. 121. Analytical Mechanics.....	3	Econ. 54. Economics for Technical	
		Students.....	3
Total.....	18	Min. 106. Mine Surveying.....	2
		Geol. 130. Geological Field Methods	1
		Total.....	20

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Min. 103. Mine Plant Design.....	3	Min. 108. Mine Rescue & First Aid	1
Min. 105. Mine Economics.....	2	Min. 110. Senior Trip.....	2
Min. 107. Mine Surveying.....	2	Min. 112. Mining Methods.....	3
Met. 111. Ore Dressing.....	2	Min. 198. Thesis.....	1
Met. 115. Non-Ferrous Metallurgy....	2	Met. 116. Non-Ferrous Metallurgy..	2
E.E. 131. D.C. Machinery.....	3	Met. 112. Ore Dressing, Lab.....	2
Met. 103. General Metallurgy, Lab... 1		E.E. 132. A.C. Machinery.....	2
Geol. 131. Geological Field Methods..	3	Geol. 152. Geology of Ore Deposits..	4
		Geol. 190. Principles of Geophysics..	3
Total.....	18	Total.....	20

Total credits required for graduation.....148

METALLURGY OPTION**JUNIOR YEAR**

FIRST SEMESTER
Same as Mining Option

SECOND SEMESTER
Same as Mining Option

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Min. 103. Mine Plant Design.....	3	Min. 108. Mine Rescue & First Aid	1
Min. 105. Mine Economics.....	2	Min. 110. Senior Trip.....	2
Min. 107. Mine Surveying*.....	2	Met. 106. Metallurgy of Iron & Steel	1
Met. 109. Metallurgical Calculations	1	Met. 116. Non-Ferrous Metallurgy..	2
Met. 103. General Metallurgy, Lab.	1	Met. 112. Ore Dressing, Lab.....	2
Met. 115. Non-Ferrous Metallurgy..	2	Met. 110. Buying and Selling Ores	
Met. 111. Ore Dressing.....	2	and Metallurgical Products.....	1
Geol. 131. Geological Field Methods..	2	E.E. 132. A.C. Machinery.....	2
E.E. 131. D.C. Machinery.....	3	Met. 196. Thesis.....	2
Elective.....	3	Geol. 152. Geology of Ore Deposits..	4
Total.....	21	Total.....	17

Total credits required for graduation.....148

*Two credits earned in the field before opening of college.

The School of Forestry

FRANCIS GARNER MILLER, M.F.....*Dean of the School*

THE School of Forestry of the University of Idaho was established in 1909 and was administered as a department until August, 1917, when it was organized as an independent school, thus placing it on a par with the other independent divisions of the University.

OBJECTIVES

1. To give the student a thorough and liberal training in forestry, to inculcate in him right professional attitudes, to foster creative thinking by the self-teaching principle, and to help him to an appreciation of those character values and higher standards of living which will enable him to achieve the highest success in the profession of forestry and in the service of society.

2. To assist, through fundamental and applied research, in the solution of forest problems, in bringing about the better utilization of forest products, and in encouraging the scientific management of the forests to the end that the industries dependent upon them may be perpetuated.

3. To carry on a campaign of public education as a means of crystallizing public thought for the proper care of the forests and of developing an understanding of the part which they play in the everyday life of the people.

LOCATION

The school has exceptional advantages for developing practical foresters and lumbermen, as it is within a short distance of dense forests and large lumber camps. Some of the largest sawmills and logging camps in the United States showing every phase of the lumber industry are within a few miles of Moscow. Excursions are made at all seasons of the year to sawmills, logging camps, and virgin and cut-over forests in order that practical field-work in every part of the subject may be had.

EQUIPMENT

ARBORETUM AND NURSERY.—The School of Forestry maintains an arboretum and forest nursery adjoining the University campus. This tract comprises forty acres, in which are growing about 150 species of trees. Parts of the arboretum are already beginning to show natural pruning and thinning. There is thus afforded right at hand an exceptional opportunity to forestry students and others for making studies in dendrology and silviculture. To encourage the establishment of wood-lots and windbreaks and the planting of shade and ornamental trees, the school supplies forest and shade trees to the people of the state at approximately cost.

DEMONSTRATION FOREST.—The School of Forestry has a section of forest land about six miles from Moscow, which is maintained as a demonstration forest and field laboratory.

The School also is developing as an Experimental Forest under a special use permit from the U.S. Forest Service a tract of some five thousand acres

in the Palouse Division of the St. Joe National Forest. This area is situated forty-five miles from Moscow and is traversed by the North and South Highway.

LABORATORIES.—Laboratory equipment and the use of the arboretum and nursery, together with the frequent trips that are taken to the forests, provide ample facilities for the study of mensuration, silviculture, dendrology, wood technology, logging engineering and lumbering, forest pathology, wood chemistry, and by-products.

To supplement the field work, modern and fully equipped laboratories and greenhouse spaces are provided for the study of mensuration, silviculture, dendrology and logging engineering. An especially well equipped laboratory for wood technology including microscopes and wood sectioning apparatus is provided. The forest products unit includes laboratories for conducting work in forest pathology, wood preservation, wood chemistry, and wood conversion. These laboratories contain modern appliances and include a complete semi-commercial plant for the manufacture of wood pulp products. Greenhouse space is provided for germination tests and studies in seedling growth during all seasons of the year. There is also a laboratory and greenhouse for the study of white pine blister rust problems. Auto trucks are available for field trips, and for a week or more each year the work of the class is transferred entirely to the field.

FEES AND EXPENSES

For a statement of fees and expenses, see Part I.

ADMISSION REQUIREMENTS

For a statement of admission requirements, see Part II.

CURRICULA

Curricula are offered in the School of Forestry leading to the degree, Bachelor of Science in Forestry. For requirements for the degree, Master of Science in Forestry, see the announcement of the Graduate School.

Owing to the demands made on the School of Forestry for men trained in special lines of forestry work it has been necessary to differentiate the subjects taught into three four-hour curricula. The first is known as the Curriculum in General Forestry and is designed to prepare students for work in the Forest Service, with state governments, or in private forestry. The second is known as the Curriculum in Logging Engineering and is designed to prepare young men to be of service with lumber manufacturers and loggers, or with timber owners who desire to secure foresters who have had more than the usual amount of training in mechanics and allied subjects, thus fitting themselves to become logging engineers. The third is the Curriculum in Range Management and is designed to prepare young men for all lines of grazing work with the Forest Service and with livestock companies. Opportunity is given also for specialization in forest products or in the lumber business.

Students in all four-year curricula in the School of Forestry take the same work in the Freshman year, as follows:

COMMON FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Eng. 1. English Composition.....	3	Eng. 2. English Composition.....	3
Math. 1. Freshman Mathematics.....	4	Math. 2. Freshman Mathematics.....	4
Bot. 1. General Botany.....	4	Bot. 2. General Botany.....	4
For. 1. Elements of Forestry.....	2	For. 10. Dendrology.....	4
C.E. 1. Engineering Drafting.....	3	For. 61. Fire Protection.....	2
Mil. 1. Freshman Military.....	1½	Mil. 2. Freshman Military.....	1½
P.E. 31. Freshman Sports.....	½	P.E. 32. Freshman Sports.....	½
Total.....	18	Total.....	19

CURRICULUM IN GENERAL FORESTRY

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Chem. 1. General Chemistry.....	4	Chem. 2. General Chemistry.....	4
C.E. 3a. Plane Surveying.....	3	C.E. 4. Topographic Surveying.....	3
Econ. 51. Principles of Economics.....	3	Econ. 52. Principles of Economics.....	3
For. 21. Forest Resources.....	2	Ent. 102. Forest Entomology.....	3
For. 23. Foundations of Silviculture.....	3	For. 26. Seeding and Planting.....	2
Mil. 3. Sophomore Military.....	1½	Mil. 4. Sophomore Military.....	1½
P.E. 33. Sophomore Sports.....	½	P.E. 34. Sophomore Sports.....	½
Total.....	17	Elective.....	2
		Total.....	19

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Phys. 3. General Physics.....	4	Phys. 4. General Physics.....	4
For. 131. Wood Technology.....	4	Eng. 155. Technical Writing.....	3
For. 141. Forest History and Policy.....	3	Bot. 102. Plant Physiology.....	4
For. 151. The Range Industry.....	3	For. 120. Junior Field Trip.....	1
For. 153. Forest Mensuration.....	3	For. 140. Forest Economics.....	2
For. 164. Forest Pathology.....	3	For. 154. Forest Mensuration.....	3
Total.....	20	For. 191. Forest Research Methods.....	2
		Total.....	19

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
For. 123. Practice of Silviculture.....	3	For. 142. Forest Administration.....	2
For. 133. Forest Products and Their Preservation.....	3	For. 156. Forest Management.....	3
For. 155. Forest Management.....	4	For. 172. Lumber Manufacture and Distribution.....	2
For. 157. Forest Mensuration.....	3	For. 180. Thesis.....	2
For. 171. Logging.....	3	Elective.....	6
Total.....	16	Total.....	15

Total credits required for graduation, 140.

CURRICULUM IN LOGGING ENGINEERING

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Chem. 1. General Chemistry.....	4	Chem. 2. General Chemistry.....	4
C.E. 3a. Plane Surveying.....	3	C.E. 4. Topographic Surveying.....	3
Math. 51. Calculus.....	4	Math. 52. Calculus.....	4
For. 21. Forest Resources.....	2	Econ. 54. Principles of Economics.....	3
For. 23. Found. of Silviculture.....	3	C.E. 8. Railroad Curves.....	1
Mil. 3. Sophomore Military.....	1½	For. 26. Seeding and Planting.....	2
P.E. 33. Sophomore Sports.....	½	Mil. 4. Sophomore Military.....	1½
Total.....	18	P.E. 34. Sophomore Sports.....	½
		Total.....	19

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Phys. 3. General Physics.....	4	Phys. 4. General Physics.....	4
C.E. 107. Railroad Engineering.....	5	C.E. 6. Mechanics (Statics).....	2
For. 131. Wood Technology.....	4	Eng. 155. Technical Writing.....	3
For. 153. Forest Mensuration.....	3	For. 140. Forest Economics.....	2
For. 164. Forest Pathology.....	3	For. 154. Forest Mensuration.....	3
		For. 191. Forest Research Methods..	2
Total.....	19	Total.....	16

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
C.E. 101. Mechanics (Dynamics).....	2	For. 156. Forest Management.....	3
For. 123. Practice of Silviculture.....	3	For. 172. Lumber Manufacture and Distribution.....	2
For. 133. Forest Products and Their Preservation.....	3	For. 180. Thesis.....	2
For. 155. Forest Management.....	4	Elective.....	8
For. 157. Forest Mensuration.....	3		
For. 171. Logging.....	3		
Total.....	18	Total.....	15

Total credits required for graduation, 140.

CURRICULUM IN RANGE MANAGEMENT

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Chem. 1. General Chemistry.....	4	Chem. 2. General Chemistry.....	4
C.E. 3a. Plane Surveying.....	3	C.E. 4. Topographic Surveying.....	3
Econ. 51. Principles of Economics.....	3	Econ. 52. Principles of Economics.....	3
Phys. 3. General Physics.....	4	Phys. 4. General Physics.....	4
For. 23. Found. of Silviculture.....	3	For. 26. Seeding and Planting.....	2
Mil. 3. Sophomore Military.....	1½	Mil. 4. Sophomore Military.....	1½
P.E. 33. Sophomore Sports.....	½	P.E. 34. Sophomore Sports.....	½
Total.....	19	Total.....	18

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bot. 53. Systematic Botany.....	3	Bot. 54. Systematic Botany.....	3
For. 131. Wood Technology.....	4	Bot. 102. Plant Physiology.....	4
For. 141. Forest Hist. and Policy.....	3	Eng. 155. Technical Writing.....	3
For. 151. The Range Industry.....	3	For. 152. Range Management.....	3
For. 153. Forest Mensuration.....	3	For. 154. Forest Mensuration.....	3
		For. 191. Forest Research Methods..	2
Total.....	16	Total.....	18

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
A.H. 1. The Livestock Industry.....	4	A.H. 142. Range Livestock Management.....	2
For. 123. Practice of Silviculture.....	3	Bot. 106. Plant Ecology.....	4
For. 155. Forest Management.....	4	For. 156. Forest Management.....	3
For. 157. Forest Mensuration.....	3	For. 180. Thesis.....	2
For. 171. Logging.....	3	Elective.....	4
Total.....	17	Total.....	15

Total credits required for graduation, 140.

GRADUATE COURSE

For students intending to specialize in any of the various fields of forestry, a five-year curriculum leading to the degree of Master of Science in

Forestry is highly desirable. Any such student should consult with the faculty at the earliest opportunity so that his program of studies may be properly arranged. Students desiring to follow forest research should have a reading knowledge of French or German.

A minimum of twenty-four semester credits is required for the master's degree; of these at least sixteen credits must be graduate in character (courses numbered above 200) and eight credits may be in courses classified as advanced undergraduate (courses numbered 100-199). A thesis is required.

Suggested fifth-year curriculum leading to the degree of Master of Science in Forestry:

FIFTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
For. 281. Research	4-6	For. 282. Research	4-6
For. 283. Graduate Seminar	2	For. 284. Graduate Seminar	2
Electives	8-10	Electives	8-10
Total.....	16	Total.....	16

RECOMMENDED ELECTIVES

For. 231. Wood Technology.....2	Ger. 15. Scientific German.....3
For. 255. Forest Management.....2	Zool. 151. Photographic Technique.....2
For. 291. Forest Research Methods.....2	For. 132. Timber Physics.....2
Agron. 155. Origin and Classification of Soils.....2	For. 210. Dendrology.....2
Bot. 203. Plant Physics, Nutrition and Growth.....3	Bot. 204. Plant Physics, Nutrition and Growth.....3
Chem. 51. Qualitative and Gravitimetric Analysis.....2	Chem. 52. Quantitative Analysis.....4
Eng. 155. Technical Writing.....3	Ent. 106. Systematic Entomology.....3
Fr. 15. Scientific French.....3	Fr. 16. Scientific French.....3
	Ger. 16. Scientific German.....3
	Zool. 152. Photographic Technique.....2

Graduates of this University or other institutions of equal rank who have had no courses in forestry, but who possess a satisfactory knowledge of botany, physics, chemistry, surveying, and mathematics may complete the requirements for the master's degree in two years.

The School of Education

JAMES FRANKLIN MESSENGER, PH.D. *Dean of the School*
BERNICE MCCOY, M.S. (ED.) *Secretary of the Faculty*

THE organization of the School of Education as an independent unit of the University of Idaho was authorized by the Board of Regents in June, 1920.

The work of the School consists in training high-school teachers, principals, superintendents, and supervisors. The services of the School are at the disposal of teachers who wish to improve themselves while in service, of school trustees who wish assistance in securing teachers, and of teachers who wish to secure positions in the high schools of the state.

EXPENSES.—For a statement of fees and expenses, see Part I.

PRACTICE TEACHING.—The public high school of the city of Moscow is used for practice teaching. Actual school-room conditions are thus provided for observation and for practice.

ADMISSION.—Students who have completed two years in an accredited college or normal school will be admitted to Junior standing. Graduates of a four-year high school accredited by the State Board of Education or by some other recognized agency will be admitted to Freshman standing.

DEGREE.—Upon completion of all requirements the degree of Bachelor of Science in Education will be given. For the curriculum in Public School Music, the degree is Bachelor of Science in Music Education. Requirements for the degree, Master of Science in Education, are stated in the description of work of the Graduate School.

CERTIFICATES.—Graduates of the School of Education receive a State high-school teacher's certificate, issued by the State Board of Education upon recommendation of the Dean. It is common also for other states to accept this recommendation and issue certificates. The number of credits in Education required for a certificate in the different states varies from fifteen to twenty-four. All students must complete the course in Idaho Law, Manual, and Civics.

POSITIONS.—The University maintains a Placement Bureau for securing positions for teachers. No charge is made for this service. The first thought is for the home State, but many calls come from other states, and when students wish to go elsewhere assistance is cheerfully given to them. Graduates are urged to keep in touch with the School in order to be in line for deserved promotions.

ELEMENTARY CERTIFICATE.—For the benefit of those students who cannot remain in college for the four years consecutively, a student who completes two years of work including ten credits in Education, may receive a state elementary certificate upon recommendation of the Dean.

SCHOOL OF EDUCATION

Required of All Candidates for the B.S.(Ed.) degree.

Course	Credits	Course	Credits
Eng. 1-2. Composition	6	Ed. 11. Student Problems.....	1
Psych. 1. General Psychology	4	Ed. 105-106. History of Education....	6
Psych. 2. Educational Psychology.....	3	Ed. 113. Secondary Education.....	3
Mathematics or some other science....	4	Ed. 114. High School Methods	3
History, Political Science, Social		Ed. 131. Practice Teaching*.....	3
Science, or Philosophy.....	6	Ed. 55. Idaho Law, Manual, and	
P.E. or Military.....	6-8	Civics	2
Ed. 1. Introduction to Education	2		

GENERAL CURRICULUM IN EDUCATION

In addition to the courses required of all students, each student must choose two teaching subjects from the following fields: Art, Botany, Chemistry, Commerce, Economics, English, Dramatics and Public Speaking, French, German, General Science, History, Latin, Mathematics, Manual Training, Music, Physical Education, Political Science and Sociology, Physics, Psychology, Spanish, Zoology.

The minimum requirements in teaching subjects will be as follows: In English and foreign languages, 18 hours beyond the elementary course. By "elementary course" in foreign language is meant two years in high school or one year in college. In all other subjects the minimum is 18 hours of college work.

Thirty-six semester credits are required in courses numbered above 100.

CURRICULUM IN COMMERCIAL EDUCATION

In addition to the courses required of all students, the following courses constitute the curriculum in commercial education:

Course	Credits	Course	Credits
Econ. 51-52. Principles of Economics.....	6	Econ. 105-106. Money and Banking	6
Bus. E.-F. Typewriting	0	Bus. 165-166. Business Law.....	6
Bus. 15n-16. Gregg Shorthand.....	6	Bus. 191. Meth. in Commercial Teaching	3
Bus. 71-72. Advanced Dictation.....	6	Bus. 169. Marketing	4
Bus. 76. Office Practice	2	Bus. 142. Financial Administration.....	4
Bus. 81-82. Principles of Accounting....	6	Each student should elect courses which will prepare him to teach at least one other high school subject.	

CURRICULUM IN PHYSICAL EDUCATION FOR WOMEN

In addition to the courses required of all students, the following courses constitute the curriculum in Physical Education for Women:

Course	Credits	Course	Credits
Zool. 1. General Zoology.....	4	P.E. 111-112. Clog Dancing and	
Zool. 6. Physiology	3	Natural Gymnastics	2
P.E. 9-10. Beginning Dancing.....	2	P.E. 114. Teaching Folk Dancing....	1
P.E. 59-60. Women's Athletics	2	P.E. 121. Teaching Individ. Gym.....	2
Zool. 103-104. Human Anatomy.....	4	P.E. 125-126. Management of Women's	
Eng. 31. Fundamentals of Speech....	2	Athletics	4
P.E. 102. Playground Supervision....	2	P.E. 139-140. Methods of Gymnastic	
P.E. 47. History of P.E.....	2	Teaching	4
P.E. 106. Pageantry and Festivals....	2	P.E. 188. First Aid.....	2
		Second Teaching Subject.....	18

CURRICULUM IN PHYSICAL EDUCATION FOR MEN

In addition to the courses required of all students, the following courses constitute the curriculum in Physical Education for Men:

*Those who have had satisfactory experience in teaching may substitute an elective course in Education for Practice Teaching.

Course	Credits	Course	Credits
Bact. 10. Public Health.....	2	P.E. 132. Corrective Physical Ed.....	2
P.E. 41-42. Freshman Activities.....	4	P.E. 141. Theory of Coaching Track and Basketball.....	2
P.E. 43-44. Sophomore Activities.....	4	P.E. 142. Theory of Coaching Football and Baseball.....	2
P.E. 47. History of Physical Ed.....	2	P.E. 184. Playground and Recreation.....	2
P.E. 48. Principles of Physical Ed.....	2	P.E. 185. Physiology of Exercise.....	2
Zool. 1. General Zoology.....	4	P.E. 188. First Aid.....	2
Zool. 6. Physiology.....	3	P.E. 196. Organization & Administration	3
P.E. 81, 82, 83, or 84. Participation in Football, Baseball, Basketball or Track	2	Zool. 103-104. Human Anatomy.....	4
P.E. 131. Technique of Teaching Activities.....	2	Second Teaching Subject.....	18

CURRICULUM IN PUBLIC SCHOOL MUSIC

Required of all candidates for the B.S.(Mus.Ed.) degree.

Course	Credits	Course	Credits
Eng. 1-2. Composition.....	6	Mus. 3-4. Elementary Harmony.....	4
Psych. 1. General Psychology.....	4	Applied Music.....	16
Psych. 2. Educational Psychology.....	3	Ensemble.....	4
One other Science.....	4	Mus. 11-12. Sight Singing and Ear Training.....	4
History, Political Science, Social Science, or Philosophy.....	6	Mus. 5-6. Advanced Harmony.....	4
P.E. or Military.....	6-8	Mus. 13-14. Keyboard Harmony.....	2
Ed. 1. Introduction to Education.....	2	Mus. 101-102. History of Music.....	4
Ed. 11. Student Problems.....	1	Mus. 103-104. Form and Analysis.....	4
Ed. 106. History of Education.....	3		
Ed. 113. Secondary Education.....	3		
Ed. 55. Idaho Law, Manual, & Civics	2		
Practice Teaching-Music.....	3		
Mus. 1-2. Sight Singing and Ear Training.....	4		

Each student should elect courses which will prepare him to teach at least one other high school subject.

SUPERVISORS OF VOCAL MUSIC

In addition to the above these students will take the following:

Course	Credits	Course	Credits
Mus 171-172. Elementary School Music..	4	Mus. 177-178. High School Music.....	6
Mus. 35-36. Glee Club.....	4		

SUPERVISORS OF INSTRUMENTAL MUSIC

In addition to the requirements for all students these will take the following:

Course	Credits	Course	Credits
Mus. 105-106. Counterpoint.....	4	Mus. 173-174. Class String Instrument Teaching or	
Mus. 179-180. Conducting.....	2	Mus. 175-176. Class Wind Instrument Teaching.....	6
Mus. 45-46. Orchestra.....	4		

AGRICULTURAL EDUCATION

Students in the College of Agriculture may secure state certificates by completing fifteen credits in Education under the direction of the professor of agricultural education. For Smith-Hughes work the following courses in Education are required:

Course	Credits	Course	Credits
Ag.Ed. 151. Vocational Education.....	2	Ag.Ed. 155. Observation and Practice Teaching.....	3-5
Ag.Ed. 152. Beginning Methods.....	2	Ag.Ed. 158. Auxiliary Problems.....	2
Ag.Ed. 153. Advanced Methods.....	3	Ed. 55. Idaho Law, Manual and Civics..	2

HOME ECONOMICS

Students in the Department of Home Economics may secure state certificates by completing the following courses in education:

Course	Credits	Course	Credits
Ed. 55. Idaho Law, Manual and Civics	2	H.Ec. 153. Methods in Related Art and Science.....	2
Ed. 59. Principles of Teaching.....	3	H.Ec. 157. Observation and Teaching Home Economics.....	4
Ed. 113. Secondary Education.....	3		
H.Ec. 152. Methods of Teaching Home Economics.....	2		

The School of Business Administration

RALPH HUNTER FARMER, A.B. *Dean*
ELLEN REIERSON, M.S. (Ed.) *Secretary*

THE development of instruction in the field of business is a matter of comparatively recent growth at the University of Idaho. Although instruction in Economics and Political Science has been given since 1901, it was not until 1925 that the separate School of Business Administration was created. Beginning in the fall of 1929 the School became a Senior College, enrolling only students in their third and fourth years of University work. Students preparing for the specialized study of business in their last two years are registered in the University Junior College for their first two years. In these two years they devote approximately two-thirds of their time to general courses, and one-third to certain preliminary courses in business.

FEES AND EXPENSES

For a statement of fees and expenses, see Part I.

ADMISSION

Students are admitted to the School of Business Administration only after the completion of two years' work in the University of Idaho or in another approved college or university. For a statement of the requirements for admission see Part II of the catalog. Students may be admitted to the University Junior College or to the Southern Branch without any high-school units in foreign language, but before entrance into the School of Business Administration, such students must complete the equivalent of two units of high-school foreign language. See tables in Part II.

JUNIOR COLLEGE PREPARATION FOR BUSINESS

Since the School of Business Administration is a Senior College, students who plan to study business at the University of Idaho should enroll in the University Junior College or the Southern Branch for their first two years. During these two years their course of study is to be guided by the suggestions given in the Junior College section.

THE FIVE MAJORS

GENERAL BUSINESS.—This major is intended for those students who prefer all-around training in business to specialization in one special field. Because of the importance of finance in all phases of business activity, special emphasis is placed on finance in this major.

ACCOUNTING.—This field, in common with many others requiring specialized training, offers many opportunities for the college man and woman. The course includes three years' instruction beyond the Freshman year, with emphasis on cost accounting, corporation accounting, auditing, and public accounting.

COMMERCE.—The major in Commerce is planned primarily for those students contemplating a career in the merchandising field.

Certain modifications of this major will be arranged for those wishing to prepare for advertising or for foreign trade.

THE EXTRACTIVE INDUSTRIES.—The fact that the University is the only state-supported, degree-granting institution in the State makes it possible to offer a series of business majors in combination with the basic applied sciences—Agriculture, Engineering, Forestry, Mining, and the like. It is true that most students interested in the above fields find it advantageous to pursue an intensive scientific course in the respective College or School offering such work. On the other hand there are always some whose major interest is in business, but who foresee an opportunity to apply their training in some one of the extractive industries. In this last group of majors, the School of Business Administration offers opportunities for such combined study.

SECRETARIAL SCIENCE.—There are many opportunities for young men and women with a thorough secretarial training. The amount of responsibility and detailed work that devolves on the modern executive makes it necessary for him to have trained secretaries to whose hands he can entrust much of the routine. This field also affords teaching opportunities.

DEGREE

The degree, Bachelor of Science in Business, B.S.(Bus.), is conferred on all students completing any one of the five majors in the School of Business Administration. In addition, the requirements for admission to the School as stated above must be satisfied. Students who entered the University prior to the fall of 1929 will receive their degrees upon completion of the requirements prevailing at the time they first registered.

CURRICULA

Below are stated the requirements in each of the five major fields of study. In addition to the specified requirements in the General Business, Accounting, Commerce, and Extractive Industries majors, all students who have not taken Bus. 81-82, Accounting, or its equivalent in the Junior College must take this course in their Junior year. In the Extractive Industries major the term *Technical Electives* refers to courses in Agriculture, Forestry, or Mining.

GENERAL BUSINESS

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Econ. 105. Money and Banking.....	3	Econ. 106. Money and Banking.....	3
Bus. 113. Statistics	3	Bus. 124. Financial Administration..	3
Bus. 169. Marketing	4	Bus. 182. Advanced Accounting.....	3
Bus. 181. Advanced Accounting.....	3	Business Elective	3
Business Elective	3	Elective	4
Total.....	16	Total.....	16

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 165. Business Law	3	Bus. 136. Investments	3
Bus. 193. Business Conditions.....	3	Bus. 166. Business Law	3
Eng. 153. Business Writing.....	3	Bus. 194. Business Conditions	3
Economics Elective.....	3	Economics Elective.....	3
Elective	4	Elective	4
Total.....	16	Total.....	16

ACCOUNTING

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 113. Statistics	3	Bus. 124. Financial Administration..	3
Bus. 169. Marketing	4	Bus. 182. Advanced Accounting.....	3
Bus. 181. Advanced Accounting	3	Bus. 186. Cost Accounting	2
Bus. 185n. Cost Accounting	2	Econ. 106. Money and Banking.....	3
Econ. 106. Money and Banking.....	3	Elective	5
Elective	1		
Total.....	16	Total.....	16

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 165. Business Law	3	Bus. 166. Business Law.....	3
Bus. 183. Auditing	3	Bus. 184. Certified Public Acctng.....	3
Bus. 187. Income Tax Account.....	3	Economics Elective.....	6
Eng. 153. Business Writing	3	Elective	4
Elective	4		
Total.....	16	Total.....	16

COMMERCE

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 113. Statistics	3	Bus. 108. Transportation	3
Bus. 141. Foreign Trade.....	3	Bus. 124. Financial Administration..	3
Bus. 169. Marketing	4	Bus. 182. Advanced Accounting.....	3
Bus. 181. Advanced Accounting.....	3	or	
or		Bus. 186. Cost Accounting	2
Bus. 185n. Cost Accounting	2	Econ. 106. Money and Banking.....	3
Econ. 105. Money and Banking.....	3	Elective	5-4
Elective	1-0		
Total.....	16	Total.....	16

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 129. Retail Merchandising.....	3	Bus. 130. Retail Merchandising.....	3
Bus. 165. Business Law.....	3	Bus. 166. Business Law.....	3
Bus. 175. Advertising	3	Bus. 194. Business Conditions	3
Bus. 193. Business Conditions	3	Business or Economics Elective.....	3
Eng. 153. Business Writing	3	Elective	4
Elective	1		
Total.....	16	Total.....	16

EXTRACTIVE INDUSTRIES

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 113. Statistics	3	Bus. 124. Financial Administration..	3
Bus. 169. Marketing	4	Econ. 106. Money and Banking.....	3
Econ. 105. Money and Banking.....	3	Technical Electives.....	5
Technical Electives.....	5	Elective	5
Elective	1		
Total.....	16	Total.....	16

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 165. Business Law.....	3	Bus. 166. Business Law.....	3
Bus. 193. Business Conditions.....	3	Bus. 194. Business Conditions.....	3
Eng. 153. Business Writing.....	3	Econ. 216. Extractive Industries	
Technical Electives.....	5	Research.....	3
Elective.....	2	Technical Electives.....	5
		Elective.....	2
Total.....	16	Total.....	16

SECRETARIAL

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 81. Accounting.....	3	Bus. 76. Office Practice and	
Bus. 169. Marketing.....	4	Procedure.....	2
Econ. 105. Money and Banking.....	3	Bus. 82. Accounting.....	3
Eng. 153. Business Writing.....	3	Econ. 105. Money and Banking.....	3
Elective.....	3	Business Electives.....	3
		Elective.....	5
Total.....	16	Total.....	16

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
Course	Credits	Course	Credits
Bus. 113. Statistics.....	3	Bus. 124. Financial Administration.....	3
Bus. 165. Business Law.....	3	Bus. 162. Office Management.....	2
Business Electives.....	5	Bus. 166. Business Law.....	3
Elective.....	5	Business Electives.....	3
		Elective.....	5
Total.....	16	Total.....	16

The Graduate School

GRADUATE COUNCIL

CHARLES WILLIAM HUNGERFORD, PH.D., *Professor of Plant Pathology, Dean*
JAMES FRANKLIN MESSENGER, PH.D., *Dean of the School of Education*
RALPH HUNTER FARMER, A.B., *Dean of the School of Business Administration*

ERNEST EVERETT HUBERT, PH.D., *Professor of Forestry*
JOHN HUGO JOHNSON, E.E., *Professor of Electrical Engineering*
ARTHUR WILLIAM FAHRENWALD, MET.E., *Professor of Metallurgy and Ore Dressing*

GEORGE MOREY MILLER, PH.D., *Professor of English*
ELLA LETITIA OLESEN, Registrar.....Secretary

THE aim of the Graduate School is to promote in the student initiative and self-direction in study. To this end the school proposes: (a) To provide for a freer and more intimate association with mature scholars; (b) To afford the student opportunity for the independent use of laboratory and library facilities; (c) To guide him in the integration of knowledge from various fields for new ends; (d) To introduce the student into the methods of original investigation.

ORGANIZATION

The graduate work is administered by the Graduate Council which consists of the Dean of the Graduate School and six members appointed by the President from the various academic divisions of the University. The scope of the Graduate School covers graduate study throughout the University. More than thirty departments offer majors toward the master's degree. Many of the departments offer several majors and thus the opportunities for specialization are extensive.

FACILITIES

The University in its library and laboratory facilities is equipped for the necessary advanced study and research required for the master's degree. Although it does not at the present offer work leading to the doctor's degree, many students are finding it to their advantage to take work beyond the master's degree. Credits thus secured may be transferred to other graduate schools or used at the University of Idaho at some future date when the doctor's degree is granted.

GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

For the promotion of graduate study and research the University of Idaho awards a number of fellowships, teaching fellowships, and scholarships.

The holders of these fellowships and scholarships pay no fees except the late registration fee, but are required to give limited assistance in the

work of the department of their principal study—not, however, to such an extent as to interfere with their graduate work. The fellowships and scholarships are open to graduates of any university or college of recognized standing. Holders of teaching fellowships will not, under normal circumstances, find it possible to complete their requirements for the master's degree in less than two years.

ADVANCED DEGREES

The following advanced degrees are offered: Master of Arts, M.A.; Master of Science, M.S.; Master of Science in Forestry, M.S.(For.); Master of Science in Agriculture, M.S.(Agr.); Master of Science in the respective branches of Engineering, e.g., M.S.(C.E.), etc.; Master of Science in Metallurgy, M.S.(Met.); Master of Science in Geology, M.S.(Geol.); Master of Science in Education, M.S.(Ed.); Master of Science in Home Economics, M.S.(H.Ec.); and Master of Science in Business, M.S.(Bus.)

PROFESSIONAL DEGREES IN ENGINEERING

The professional degrees in engineering—Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), Chemical Engineer (Ch.E.), Agricultural Engineer (A.E.), Engineer of Mines (E.M.), and Metallurgical Engineer (Met.E.)—may be granted to graduates of the College of Engineering, or the School of Mines of the University of Idaho upon the submission of an approved thesis, and after five years of professional experience, one year of which must have been spent in responsible charge of work.

REGULATIONS

ADMINISTRATION.—All graduate students whose cases come under the accepted regulations are dealt with directly by the chairman and secretary of the Graduate Council. Exceptional cases or those from which an appeal is taken are referred to the Council for action.

ADMISSION.—A graduate of the University of Idaho or of another institution which has equivalent requirements for the first degree may be admitted to the Graduate School and become a candidate for the master's degree. Certified credentials covering all previous work must be submitted with an application for admission.

REGISTRATION.—A graduate student must have completed his admission and registration within three weeks after the beginning of any semester or summer session in order to count that session toward the residence requirement for his degree. Failure to complete registration within this time will involve the payment of the late registration fee.

PARTIAL ENROLMENT.—A senior who desires to do graduate work during his last semester in the University is required to make application to the Dean of the Graduate School in advance, and may be counted as a graduate student in partial enrolment if he has satisfied the undergraduate residence requirement, and if he needs not more than six credits to complete his requirements for the baccalaureate degree.

FEES.—No deposit or fee, except the late registration fee, is collected from fellows, graduate assistants, or persons connected with the University teaching staff. Others are required to pay the same fees as undergraduate students except that non-resident tuition is not charged to graduate students from outside the state. Failure to complete registration within three weeks after the beginning of any semester or summer session will involve the payment of the late registration fee of \$5.

NATURE AND AMOUNT OF WORK.—A minimum of twenty-four semester credits is required for the master's degree; of these at least sixteen credits must be graduate in character (courses numbered above 200) and eight credits may be in courses classified as advanced undergraduate (courses numbered 100-199). However, upon the approval of the major professor and the Graduate Council, students may qualify for the master's degree by thirty semester credits and a professional paper in lieu of the thesis, the requirements being that at least twenty-four credits shall be earned in residence and at least twenty credits shall be graduate in character (courses numbered above 200). (This provision is primarily intended for majors in Education).

Not less than twelve credits shall be in the major subject, and either one or two minors shall be taken in related subjects.

MAJOR SUBJECT.—A candidate for an advanced degree may select his major from those subjects only which are allowed as majors for the corresponding bachelor's degree. He must present preparation equivalent both in the major field and in the general requirements to that required for the first degree.

Any change of major or minor must be approved by the major professors concerned and the Dean of the Graduate School. This approval must be filed in the registrar's office.

THESIS.—A graduate student who writes a thesis should decide upon his thesis subject during his first session in residence at the University. A student who expects to qualify for a degree through attendance at summer sessions only should file his thesis title, approved by his major professor, with the Dean of the Graduate School at the close of his first summer term. The thesis embodying the result of the student's research in his major subject must be submitted to the Graduate Council not later than May 15 of the year in which the degree is to be conferred.

EXAMINATION.—An oral examination is required of each candidate. The examining committee shall be composed of the professor in charge of the major subject, one professor in charge of a minor subject, and a third member selected by the Dean of the Graduate School. This committee examines the candidate on the thesis and on his major and minor fields of study. A recommendation of the committee is necessary for graduation. Any member of the faculty has the privilege of attending the examination and questioning the candidate.

NON-RESIDENT CREDITS NOT ACCEPTED.—Credits from non-resident courses in correspondence, or group study shall not be accepted as fulfilling any of the requirements toward a master's degree, and non-resident study shall in no case reduce the residence requirement.

Students who are admitted to the Graduate School with deficiencies may, with the approval of the Dean, make up such deficiencies by non-resident study (if the required courses are offered in that way) at such times as they are not enrolled for residence work.

GRADES AND GRADING SYSTEM.—Courses numbered above 200 are marked P (passed) or F (failed). Other courses are graded on the undergraduate basis, but no such course may be counted for a degree unless a grade of C or above is recorded.

RESIDENCE REQUIREMENTS.—One year's resident work is required of every candidate.

Special Provisions:

(1) Graduates of the University of Idaho may be permitted in special cases to spend one semester at some other approved institution.

(2) Upon the recommendation of the department in which the candidate takes his major, attendance upon a six-weeks' summer session of the University of Idaho may be counted as a half-semester's residence, provided that one semester is spent in residence in a regular session.

(3) A student may be permitted to fulfill the residence requirement by three summer sessions of not less than six weeks each with thesis or four summer sessions without thesis, provided he carries on individual work during two intervening years under the direction of his major professor. Not more than six credits may be earned by such work *in absentia*. Registration for work *in absentia* must be made by the student at the beginning of each of the two years which he wishes to count under this provision.

(4) Graduate students may present twelve semester hours of graduate credit from recognized graduate schools in lieu of one six week summer session at the University of Idaho.

(5) No full-time instructor, research or demonstration worker in the University shall be granted a master's degree for less than two years of graduate work.

APPLICATION FOR A MASTER'S DEGREE.—Formal application for the master's degree must be filed at the beginning of the last semester or summer session in which the student is in residence. This application must state the exact title of the thesis. No application for a degree at a given commencement will be accepted after March 15. The filing of the application must be preceded by payment of the diploma fee of \$5 and a fee of \$1.50 for binding two copies of the thesis for the library.

University Junior College

ADMINISTRATIVE COUNCIL

THOMAS STONER KERR, LL.B., *Professor of Political Science*.....Dean
EUGENE TAYLOR, M.A., *Professor of Mathematics*.....Secretary
CURTISS WORTH CHENOWETH, M.A., *Professor of Philosophy*
JAY GLOVER ELDRIDGE, PH.D., *Dean of the University Faculty*
RALPH HUNTER FARMER, A.B., *Dean of the School of Business Administration*
JOHN ANTON KOSTALEK, PH.D., *Dean of the College of Letters and Science*
JAMES FRANKLIN MESSENGER, PH.D., *Dean of the School of Education*

ORGANIZATION

THE University Junior College was organized as a separate division of the University and went into operation at the opening of the first semester, 1929-1930. Its program embraces the work heretofore done during the first two years in the College of Letters and Science and the School of Business Administration. It also fulfills the requirements for admission to the College of Law. Students intending to enter the College of Letters and Science, the School of Business Administration, or the College of Law are registered for their first two years in the Junior College. Arrangements can be made for completion of vocational courses in the Junior College for students who plan to attend the University not more than two years.

AIM

The primary purpose of the Junior College is to afford special facilities and opportunities for advice and consultation for the beginning student and to assist him during his first two years in selecting courses which will fit his individual needs. It aims to bridge the gap between the high school and the University and to learn through close personal contact the particular interest and special fitness of the individual student. It further aims to direct his work so as to include the prerequisites for his Senior College courses and at the same time give him a cultural foundation.

ADMISSION

The general statement of admission requirements is found in Part II.

CURRICULUM

The curriculum of the Junior College is based on the completion of 60 credit hours in addition to the requirements in physical education and military science and tactics. Students completing this curriculum will be given a certificate upon application and payment of fee.

The general framework of the Junior College curriculum includes:

1. ENGLISH—12 credits. English Composition 6 credits.
English Literature 6 credits
2. NATURAL SCIENCE—10 credits.

The natural science group includes Botany, Chemistry, Geology, Physics, Psychology, Public Health, and Zoology.

3. SOCIAL SCIENCES—12 credits.

The Social Science group includes American History, Contemporary Civilization, Economics, European History, Philosophy, and Political Science.

4. MILITARY SCIENCE AND PHYSICAL EDUCATION—8 credits for men
6 credits for women.

The Junior College student ordinarily will have 20 or more hours of electives. In selecting courses for these electives he must include the prerequisites set forth by the major department in which he will do his Senior College work.

Students intending to enter the College of Letters and Science are advised to complete in the Junior College, if possible, the language requirements for graduation. The prerequisites for the various major departments of the College of Letters and Science are set forth on pages 40 to 49.

Students who intend to enter the College of Law should consult the statement on pages 62-63 as well as the statement regarding admission to the combined course B.A. and LL.B. on page 46.

The Junior College curriculum is intended to be sufficiently elastic to serve the best interests of the student. Needed adjustments will be made in exceptional cases upon the approval of the Dean of the Junior College and the major professor under whom the student will pursue his Senior College work.

A suggested program for the Freshmen year follows:

	First Sem.	Second Sem.
English Composition	3 crs.	3 crs.
Social Science	3 "	3 "
Natural Science	4 "	4 "
Mil. or P.E.	2 "	2 "
Electives	3-4 "	3-4 "
	15-16	15-16

For prerequisites to the School of Business Administration see page 80. The following program is recommended for pre-business students:

FRESHMAN YEAR			SOPHOMORE YEAR		
Course	Credits		Course	Credits	
	First Sem.	Sec. Sem.		First Sem.	Sec. Sem.
Bus. 27. Business Organization	3		Bus. 81-82. Principles of		
or			Accounting	3	3
Shorthand	3-4		or		
Geol. 12. Economic Geology.....		3	Shorthand	3-4	3-4
or			Econ. 51-52. Principles of		
Shorthand		3-4	Economics	3	3
Eng. 1-2. English Composition	3	3	Eng. 17-18. Introduction to		
European History.....	3	3	Literature	3	3
Natural Science or Mathematics	4	3-4	History, Political Science or		
Military and Physical Education	2	2	Philosophy	3	3
			Military and Physical Education	2	2
			Electives	2	2
	15-16	14-16		16-17	16-17

Sufficient electives must be taken to make a total of 64 credits in the Junior College.

Students who do not present two years of high school foreign language for entrance to the University should take a year of foreign language in the Junior College. If not taken in the Junior College, this must be taken in the Senior College.

SPECIAL CURRICULA

APPLIED MUSIC

The Bachelor of Music degree, given in the Senior College of Letters and Science, is in the nature of a technical and professional degree, and the curriculum is arranged on a four-year basis. The first two years are administered by the Junior College and include the following courses:

FRESHMAN YEAR			SOPHOMORE YEAR		
Course	Credits		Course	Credits	
	First Sem.	Sec. Sem.		First Sem.	Sec. Sem.
Eng. 1-2. English Composition.....	3	3	Eng. 17-18. Intro. to Literature	3	3
French or German.....	4	4	French or German.....	4	4
Mus. 1-2. Sight Singing and Ear Training.....	2	2	Mus. 5-6. Advanced Harmony	2	2
Mus. 3-4. Elementary Harmony	2	2	Mus. 11-12. Sight Singing and Ear Training.....	2	2
Mus. 21-22, 31-32, 41-42, or 61-62	4	4	Mus. 13-14. Keyboard Harmony	1	1
P.E. (Women).....			Mus. 23-24, 33-34, 43-44, or 63-64	4	4
Mil. and P.E. (Men).....	2	2	P.E. (Women).....	1	1
			Mil. and P.E. (Men).....	(2)	(2)
	17	17		17-18	17-18

Students with a major interest in music have also the option of becoming candidates for the Bachelor of Arts degree in the music curriculum, in which case they will follow the standard Junior College curriculum. (See page 47.)

HOME ECONOMICS

(General)

For the third and fourth years of the General Curriculum in Home Economics leading to the degree of Bachelor of Science in Home Economics see pages 45-46.

FRESHMAN YEAR			SOPHOMORE YEAR		
Course	Credits		Course	Credits	
	First Sem.	Sec. Sem.		First Sem.	Sec. Sem.
Eng. 1-2. English Composition	3	3	Eng. 17-18. Intro. to Literature	3	3
H.Ec. 23. Textiles	2		Chem. 1-2. General Chemistry..	4	4
H.Ec. 24. Elementary Clothing		3*	H.Ec. 65. Costume Design.....	2	
H.Ec. 11n-12. Art Structure.....	2	2	H.Ec. 4. Food Preparation.....		3
P.E. 1a-2a. Physical Training.....	1	1	P.E. 3-4. Physical Training.....	1	1
Soc. Sci. 1-2. Contemp. Civil.....	3	3	H.Ec. 35. Home Nursing.....	2	
Zool. 1. General Zoology			H.Ec. 82. House Construction		2
or			Elective†	2	3
Bot. 1. General Botany.....	4				
Zool. 6. Physiology		3			
Elective	2	2*			
	16	16		16	16

*Students who pass a proficiency test in elementary clothing will be excused from one laboratory period per week and take H.Ec. 24 for only 2 credits. They will take an additional elective credit.

†Physics should be taken in the Sophomore year if not presented for admission.

HOME ECONOMICS**(Food and Nutrition)**

For the third and fourth years of the Food and Nutrition Curriculum leading to the degree of Bachelor of Science in Home Economics see page 46.

FRESHMAN YEAR				SOPHOMORE YEAR			
Course	Credits			Course	Credits		
	First	Sec.			First	Sec.	
	Sem.	Sem.			Sem.	Sem.	
Eng. 1-2. English Composition....	3	3		Eng. 17-18. Intro. to Literature	3	3	
H.Ec. 11n-12. Art Structure.....	2	2		Chem. 51. Qualitative and			
H.Ec. 23. Textiles	2			Gravimetric Analysis.....	4		
H.Ec. 24. Elementary Clothing		3*		Chem. 52. Quantitative Analysis		4	
P.E. 1a-2a. Physical Training....	1	1		P.E. 3-4. Physical Education....	1	1	
Soc.Sci. 1-2. Contemp. Civil.	3	3		Zool. 1. General Zoology			
Chem. 1-2. General Chemistry....	4	4		or			
				Bot. 1. General Botany.....	4		
				Zool. 6. Physiology		3	
				H.Ec. 35. Home Nursing.....	2		
				H.Ec. 4. Food Preparation.....		3	
				Elective†	3	3	
	15	16			17	17	

PRE-MEDICAL CURRICULUM

This special curriculum is intended to cover the *minimum* entrance requirements of the Association of American Medical Colleges, but it should be remembered that more and more the medical schools are selecting their students from those who have had three and even four years of pre-medical preparation. For the work of the third and fourth years leading to the degree of Bachelor of Science in Pre-Medical studies, see page 48.

FRESHMAN YEAR				SOPHOMORE YEAR			
Course	Credits			Course	Credits		
	First	Sec.			First	Sec.	
	Sem.	Sem.			Sem.	Sem.	
Eng. 1-2. English Composition	3	3		Math. 1. Freshman Math.	4		
Chem. 1-2. General Chemistry....	4	4		Chem. 51-52. Qual. and Quant.			
Zool. 1-2. General Zoology.....	4	4		Analysis	4	4	
German or French.....	4	4		Physics 3-4. College Physics ...	4	4	
Mil. and P.E. (Men).....	2	2		Zool. 4. Comparative Anatomy		4	
P.E. (Women)	(1)	(1)		Sci. German or French.....	3	3	
				Mil. and P.E. (Men).....	2	2	
				P.E. (Women)	(1)	(1)	
	16-17	16-17			17-18	17-18	

PRE-NURSING CURRICULUM

For the third and fourth years leading to the degree of Bachelor of Science in Pre-Nursing studies, see page 48.

FRESHMAN YEAR				SOPHOMORE YEAR			
Course	Credits			Course	Credits		
	First	Sec.			First	Sec.	
	Sem.	Sem.			Sem.	Sem.	
Eng. 1-2. English Composition	3	3		Math. 1. Freshman Math.....	4		
Chem. 1-2. General Chemistry....	4	4		Zool. 4. Comparative Anatomy		4	
Zool. 1-2. General Zoology	4	4		Chem. 51-52. Qual. and Quant.			
German or French	4	4		Analysis	4	4	
P.E.	1	1		Bact. 51. General Bact.....	4		
				Sci. German or French.....	3	3	
				P.E.	1	1	
				Electives		4	
	16	16			16	16	

*Students who pass a proficiency test in elementary clothing will be excused from one laboratory period per week and take H.Ec. 24 for only 2 credits. They will take an additional elective credit.

†Physics should be taken in the Sophomore year if not presented for admission.

SECRETARIAL TRAINING

This curriculum is a completion or vocational course designed for students who may attend the University for not more than two years and who wish to leave with some preparation for immediate employment. The course does not admit directly to any of the Senior College curricula. Students may, however, make up the deficiencies either for the regular Junior College certificate, or for admission to Senior College curricula.

FRESHMAN YEAR				SOPHOMORE YEAR			
Course	Credits			Course	Credits		
	First.	Sec.			First.	Sec.	
	Sem.	Sem.			Sem.	Sem.	
Eng. 1-2. English Composition	3	3		Bus. 71-72. Intermed. Dictation	3-4	3-4	
Soc.Sci. 1-2. Contemp. Civil....	3	3		Eng. 127. Technical Writing..	3		
Science	4	4		Bus. 76. Office Practice and			
Bus. 15n-16. Shorthand	3-4	3-4		Procedure		2	
P.E. 1a-2a. Elementary Gym...	1	1		Bus. 81-82. Accounting.....	3	3	
P.E. 1b-2b. Personal Hygiene..	1	1		Econ. 51-52. Principles of Econ.	3	3	
Elective	1-2	1-2		Eng. 17-18. Intro. to Literature	3	3	
				P.E. 3-4. Advanced Gymnastics	1	1	
				Elective		0-1	
	17	17			16-17	16-17	

The Southern Branch

JOHN RUSKIN DYER, M.A.....*Executive Dean and Director
of the Division of Letters and Science*
ACHILLES CALLOWAY GOUGH, E.E.....*Director of the Division of Engineering*
EUGENE O. LEONARD, M.S.....*Director of the School of Pharmacy*

THE Southern Branch of the University of Idaho is historically a development from the former Academy of Idaho, which was established at Pocatello by the State in 1901, and became the Idaho Technical Institute through action of the Legislature of 1915. The Legislature of 1927 took further action which confirmed the status of the institution as a Junior College, offering the first two college years of instruction "as nearly as practicable equivalent to the first two years as prescribed for the University of Idaho" and changing the name to the "Southern Branch of the University of Idaho." Provision was also made that the course in pharmacy should be such as to meet the requirements recommended by the American Association of Colleges of Pharmacy. In 1930 the School of Pharmacy inaugurated a four year curriculum and began to award the degree of Bachelor of Science in Pharmacy.

GRADUATION AND ADMISSION TO SENIOR COLLEGES

Graduation from the Southern Branch of the University of Idaho is based upon the satisfactory completion of one of the curricula outlined in the Southern Branch catalog. In order to be eligible for graduation a student must make an average grade of "C" and must present grades of "C" or above in three-fourths of the credits required in his curriculum and earned in residence. Graduates from the two-year curricula in the divisions of Letters and Science and Engineering receive the diploma of graduation which admits them to Junior standing in corresponding curricula in the University of Idaho. Graduates of the two-year curricula in Arts and Science are eligible to admission to the College of Law of the University of Idaho.

Students who may choose to transfer to another curriculum upon entering the Junior year of the University may be required to make up the required subjects of the curriculum to which they transfer.

It is assumed that graduates from any one of the completion courses do not intend to pursue further college studies leading to a degree. They receive the regular diploma of graduation, but if they decide to continue in the work of the University they are not eligible to full Junior standing. Credits earned in strictly vocational studies ("V" courses) do not count toward academic standing, or are considerably reduced in value when so applied.

Students of the Southern Branch will avoid confusion by considering their work in terms of the curriculum which they plan to complete in the Senior College.

UNIVERSITY COLLEGE

UNION TRUSTS

FIRST SEMESTER		SECOND SEMESTER	
English	Mathematics	English	Mathematics
History	Science	History	Science
Geography	Art	Geography	Art
Physical Education	Music	Physical Education	Music
Foreign Languages		Foreign Languages	

The University of the South Branch is a private institution of higher learning located in the city of Charleston, West Virginia. It was founded in 1863 and has since that time been a center of education and scholarship. The university is organized into two main divisions: the Division of Arts and Sciences and the Division of Business Administration. The Division of Arts and Sciences offers a wide range of undergraduate and graduate programs in the liberal arts, sciences, and professional fields. The Division of Business Administration offers programs in accounting, finance, management, and marketing. The university is known for its high academic standards and its commitment to providing a quality education for all students.

DIVISION OF COMPLETION COURSES

High school graduates who cannot for one reason or another complete a college course and in the Division of Completion Courses are offered a special program of study. This program is designed to help students complete their college education and earn their degree. The program consists of a series of courses that are equivalent to those offered in the Division of Arts and Sciences. Students who complete the program are awarded a Bachelor's degree from the University of the South Branch. The program is a valuable opportunity for students who have been unable to complete their college education for one reason or another.

PART IV
The Experiment Stations
University Extension
The Summer School

PART IV
The Experimental Stations
University Extension
The Summer School

EDWARD JOHN IDDINGS, M.S.	Director
AGNES KERR HITE	Secretary of the Staff
CHARLES WILLIAM HUNGERFORD, PH.D.	Vice Director and Chairman of the Project Committee
CLAUDE WAKELAND, M.S.	Chairman of the Publication Committee

N compliance with an enabling act of Congress approved March 2, 1887, the Idaho Agricultural Experiment Station became an integral part of the State University at the time of its organization. That act, commonly known as the Hatch Act, defines the scope and activities of state experiment stations as follows:

That it shall be the object and duty of said experiment stations to conduct original researches, or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantage of rotative cropping as pursued in a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of different kinds of foods for domestic animals; the scientific and economic questions in the production of butter and cheese; and such researches or experiments bearing directly on the agricultural industry in the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states and territories.

The Adams Act, approved March 16, 1906, doubled the original federal funds available for experimentation and research. The Hatch Act made possible the beginning of scientific investigation of problems peculiar to Idaho's agriculture; the Adams Act expressly sanctions and encourages original research along agricultural lines. The Purnell Act, approved February 24, 1925, provides, in the language of the law, "the more complete endowment and maintenance of the agricultural experiment stations." In attempting to interpret the will of the Congress in providing this additional support for research of interest and value to farmers, special attention is given to the study of problems in the fields of Agricultural Economics and Home Economics. These federal funds are supplemented by state appropriations for the investigation of special problems and for the maintenance of sub-station farms where some of the work can be most advantageously carried on. During the last biennium funds were available for the work of the Experiment Station, derived as follows: Federal appropriation, \$175,000; State appropriation \$78,575; together with the income from the several stations, amounting to approximately \$20,000.

ORGANIZATION AND WORK.—The organization of the Agricultural Experiment Station is practically the same as that which prevails in the College of Agriculture. Under the general supervision of a Director, the work of investigation is carried on by departments, of which there are now thirteen, viz: Agricultural Economics, Agricultural Engineering, Agronomy, Animal Husbandry, Bacteriology, Agricultural Chemistry, Dairy Husbandry, Entom-

ology, Home Economics, Horticulture, Plant Pathology, Poultry Husbandry, and Pure Seed. Each department has a broad conception of its duties and influences and is pushing actively the work it has inaugurated for the ultimate benefit of the agricultural industry it represents. Some of the most important lines of investigation in progress are: feeding experiments with sheep, hogs, and beef and dairy cattle; study of feeds; a study of diseases of animals; experiments for the control of insect pests; investigation of the chemical properties and productive possibilities of the timber soils, and of alkali soils; variety tests of wheat, oats, barley, peas, and potatoes; a study of chlorosis of plants; a test of soiling crops; experiments in the duty of water; an investigation of alkali soils; factors affecting the elaboration of protein in the wheat kernel; a study of vitamin efficiency of Idaho food plants; utilization of by-products in fruit and vegetable growing; cabbage culture; spraying and pruning experiments; variety tests in vegetable growing; experiments for the control of potato diseases, bean mosaic, and the curly top of sugar beets; investigations of farm organization, livestock and crop management, and of marketing problems; and feeds for egg production. Approximately 150 separate projects represent the activity of the Experiment Station staff at this time.

The general administration of the pure seed law is intrusted to the Director of the Experiment Station. The actual administration of the act, however, is delegated to a pure seed commissioner who has established a laboratory in the Noble Building at Boise.

LABORATORIES AND OTHER FACILITIES.—The Departments of Bacteriology, Agricultural Chemistry, Agronomy, Horticulture, Plant Pathology, Soil Technology, Veterinary Science, Entomology, Dairy Husbandry, and Dairy Manufacture have well equipped research laboratories in Science Hall, Morrill Hall, and the Dairy Building. An entomological field laboratory is maintained at Parma. Agricultural engineering laboratories are located in the engineering shops. At the foot of the campus, greenhouse facilities are provided for such lines of investigation as require them. The college farm of 612 acres supports splendid herds of beef and dairy cattle, hogs, and sheep, from which individual animals are selected for experimental feeding purposes. This farm also provides experimental fields of ample dimensions for the use of the Departments of Agronomy, Chemistry, Horticulture, and Plant Pathology, and breeding-pens for the Department of Poultry Husbandry.

Farming conditions within the state are so varied that it is necessary to conduct many lines of investigation away from the central station. The sub-station farms are admirably located for this purpose. On the Sandpoint farm, experiments designed to point the way to the profitable utilization of the cut-over and burned-over lands are in progress. The farm at Aberdeen is used for experiments in crop production under irrigation. The Caldwell sub-station supports a dairy herd and other livestock and is used for investigations in animal feeding and diversified farming. A feeding plant erected

there in 1919 provides for 144 head of cattle and from 700 to 1000 head of sheep. The High Altitude Sub-station at Felt is established for the conduct of experiments in the growing of grains, grasses, and potatoes, and tests of cultural practices which give promise of adaptability to elevations of more than 6000 feet. Additional points of contact with agricultural problems are maintained by means of eight summer field stations. The splendid public spirit of citizens in the several localities has made possible the work now in progress on these farms. In the work at Aberdeen the United States Department of Agriculture, through its Bureau of Plant Industry, is coöperating.

PUBLICATIONS.—The practical results of investigations, are freely used in the classrooms of the Agricultural College, and as rapidly as possible are printed in the form of bulletins for general distribution to the farmers of the state and to others who may ask for them. Up to the present time a total of 190 bulletins, 67 circulars, 9 research bulletins, and 80 technical papers have been published. A list of those still available may be had upon request. The publications of the Experiment Station are free. The station staff invites correspondence with farmers of the state upon subjects in which they are interested. General inquiries should be directed to the Experiment Station, special inquiries to such heads of departments as from their official designation are most likely to be able to give the information sought.

The Engineering Experiment Station

IVAN CHARLES CRAWFORD, C.E.....*Director*

ALTHOUGH the Engineering Experiment Station was not formally organized by the Board of Education until June, 1928, investigational work has been carried on in the materials laboratory since 1904. During that year and the year following, two bulletins were published, each dealing with the road-making properties of the trap rocks of the Palouse region.

OBJECT AND ORGANIZATION.—The station was established to do research work upon engineering problems of importance to the industries, municipalities, public utilities, state departments and engineers of Idaho; to stimulate research activity in the faculty and among the students of the College of Engineering; and to publish the results of investigations and compilations of data of value to the citizens of the State.

The staff of the station is composed of the President of the University, the Director and various members of the faculty of the College of Engineering. The laboratories of the departments of Civil, Mechanical, Electrical, Chemical, and Agricultural Engineering are employed in the investigations conducted by the station.

Idaho Bureau of Mines and Geology

JOHN WELLINGTON FINCH, B.A., M.A., Sc.D.....Secretary

THE law establishing the Idaho Bureau of Mines and Geology specifies that its office shall be at the University of Idaho, and that the Dean of the School of Mines is Executive Secretary. Cooperative relations are maintained with the United States Bureau of Mines and with the United States Geological Survey in all matters pertaining to mining and geological investigations of these federal organizations in the State of Idaho. The State and Federal bureaus maintain metallurgical and geological staffs engaged in the effort to benefit the mining industry of the State. School of Mines faculty members contribute useful field and research work.

Agricultural and Home Economics Extension

EDWARD JOHN IDDINGS, M.S.....Director

FOR many years the College of Agriculture of the University has rendered service to the farmers of the State through farmers' institutes, judging at fairs, answering of letters of inquiry upon topics of interest to the farmer, and through special meetings held in widely separated portions of the State.

Extension work, as it is known today, is an outgrowth of the Smith-Lever Act of Congress, approved May 8, 1914. With the aid of Federal funds supplied by the terms of this Act and special appropriations of the State, the Extension Division has accomplished, within the last few years, most remarkable results.

General administration of extension work in Idaho is in charge of the Director of Extension. The offices of the Director and the State Leaders of County Agents, Home Demonstration, and Boys' and Girls' Club Work are at Moscow and offices of the field specialists are at Boise. The county extension agents number twenty-six. General supervision of the county agents is entrusted to a County Agent Leader. Home demonstration agents are supervised by a State Leader. The State Leader of Boys' and Girls' Clubs directs the club work of the State, which has been very popular in the farming sections. Field specialists carry on carefully outlined projects of work, largely through the county agents, in Horticulture, Entomology, Animal Husbandry, Dairying, Agronomy, improvement of soils, Poultry Husbandry, farm management, marketing, pure seed production, Forestry, Agricultural Economics and Marketing.

Members of the extension staff are the field representatives of the University of Idaho. They are constantly working in the rural communities,

assisting in every possible way in agricultural development and home improvement. Through the Agricultural Extension Service the work of the College of Agriculture of the University of Idaho has become state-wide, and this service is rendered by the institution not only to those near at hand, but also to those sections of the State farthest removed from the campus.

Non-Resident Instruction

BERNICE MCCOY, M.S. (ED.) *Director*

THE University of Idaho offers two kinds of non-resident instruction. First, for individual students, representative courses in most departments are given by correspondence. Second, where a number of persons desire the same subject, the University organizes a study group, which a member of the faculty actively directs and, when it seems practicable, visits from time to time.

The courses offered non-resident students, with few exceptions, carry full University credit and are identical with the resident courses of the same number. Students taking these courses must have the necessary prerequisites.

All non-resident courses are prefixed with the letter "C" (e.g., English C14).

CORRESPONDENCE STUDY.—In courses offered by correspondence, the University furnishes study outlines and syllabi with a list of the books and other material required. There will be eight assignments per credit-hour; for example: sixteen assignments for a two-credit course and twenty-four assignments for a three-credit course. The assignments call for very definite work on the student's part, consisting of written reports or analyses, the solution of problems, or the investigation of special topics as the nature of the course may demand.

All reports, unless otherwise specified, must be prepared on 8 x 11 inch paper. Carriage charges must be fully prepaid. The use of reasonably thin paper is recommended to reduce these charges. All lessons are read, graded, corrected, and returned.

ENROLLMENT.—1. Persons not in residence may enroll for non-resident work at any time.

2. Resident students are not permitted to carry non-resident work. Courses not completed before students register or re-register in the University are automatically dropped.

3. Non-resident students failing to complete courses for which they have registered will be dropped at the end of twelve months, but will be permitted to re-enroll with the payment of \$1.00 re-registration fee, the course to be completed by the close of the ensuing year.

CREDITS.—4. A total of thirty-two credits, or one year of undergraduate college work, may be secured by non-resident instruction.

5. As a rule, students are advised to carry not to exceed two courses at a time. However, if a student has unlimited leisure, he may safely carry three or four courses at one time.

EXAMINATIONS.—To receive credit the student must take a written examination on the completion of each course. Other examinations may be required from time to time at the instructor's discretion. In supervising these examinations the University is glad to acknowledge the friendly cooperation of alumni, school officials, and other friends.

REGULATIONS

1. The University offers no non-resident courses leading to the county third grade certificate.

2. Under ruling of the State Board of Education, credits earned in non-resident courses may not be submitted in lieu of an examination for the county first and second grade certificates.

3. *Students should return each assignment as completed, never sending in more than three at one time. Students violate this at their own risk.* Instructors cannot do justice to students in the field if a large number of assignments are sent in at one time and often failure in the course is a result.

4. *Non-resident students who intend to use credits made in such courses for graduation or certification must have courses completed, including the final examination, three weeks before June first.*

5. Worthy requests for courses not given in the bulletin may occasionally be granted.

FEEES

Fees for correspondence work are \$4.00 per credit. For example, a two-credit course will be \$8.00 and a three-credit course \$12.00. *Fees will not be refunded.*

STUDY GROUPS

STUDY GROUPS.—Members of the University faculty are glad to organize study groups where several persons wish to pursue the same subject. No absolute minimum is set, but it is recommended that the organization of a study group include at least five individuals. Members of these study groups may, on fulfilling the necessary requirements and prerequisites, obtain University credit. Fees for individual members of study groups shall be the same as those charged for individual registrations, that is \$4.00 per credit. Where the group is large enough and the distance not altogether prohibitive, the member of the faculty in charge of the course will meet the group in person at regular intervals.

All communications regarding non-resident instruction should be addressed to the Department of Non-resident Instruction, University of Idaho, Moscow, Idaho.

NON-RESIDENT COURSES

Courses primarily for undergraduates are numbered between 1 and 99 and courses for advanced undergraduates between 100 and 199. Only those courses numbered above 50 may be taken for credit in the Senior Colleges (except that elementary courses in mathematics and foreign languages may be so credited).

Courses marked with an "n" are those in which credit will not be given for the first semester's work until that of the second semester shall have been completed.

AGRICULTURE		Course		Credits
Course	Credits			
AGRICULTURAL ENGINEERING				
C161. Irrigation Practice.....	3	C106. History of Education.....		3
AGRONOMY				
C1. General Crop Production.....	3	C111. The Junior High School.....		3
ANIMAL HUSBANDRY				
C106. Animal Nutrition.....	3	C113. Secondary Education.....		3
C133. Swine Production.....	2	C114. High-School Methods.....		3
C135. Sheep Production.....	2	C115. Educational Guidance.....		3
DAIRY HUSBANDRY				
C3. Milk Production.....	2	C123. Educational Tests and Measure- ments.....		3
HORTICULTURE				
C2. Elements of Horticulture.....	2	C211. Curriculum Construction.....		3
PLANT PATHOLOGY				
C2. Nature and Control of Plant Diseases.....	2	ENGINEERING		
C105. Potato Diseases and Their Control.....	1	CIVIL ENGINEERING		
POULTRY HUSBANDRY				
C2. Practical Poultry Production.....	3	C1. Engineering Drawing.....		4
ART				
C1. Freehand Drawing.....	2	C2. Descriptive Geometry.....		3
C2. Freehand Drawing.....	2	C6. Mechanics (Statics).....		3
C3. Principles of Design.....	2	C8. Plane Curves.....		1
C4. Principles of Design.....	2	C103. Mechanics of Materials.....		3
C101. Water-Color Painting.....	2	C105. Highways and Streets.....		2
C102. Water-Color Painting.....	2	C105. Reinforced Concrete Theory.....		2
C121. Alphabets.....	2	ELECTRICAL ENGINEERING		
C122. Alphabets.....	2	C20. Elements of Radio-Telegraphy.....		2
BACTERIOLOGY				
C10. Public Health.....	2	C130. Direct and Alternating Current Machinery Theory.....		4
BOTANY				
C1. General Botany.....	3	C133. Direct Current Machinery.....		3
C54. Systematic Botany.....	3	C134. Alternating Current Machinery.....		3
C109. The Teaching of Botany.....	2	MECHANICAL ENGINEERING		
BUSINESS ADMINISTRATION				
C81. Elementary Accounting.....	3	C5. Machine Drawing.....		2
C82. Elementary Accounting.....	3	C13. Mechanism.....		3
C163. Business Law.....	3	ENGLISH		
C166. Business Law.....	3	C17. Introduction to Literature.....		3
C169. Marketing.....	4	C18. Introduction to Literature.....		3
C185. Cost Accounting.....	2	C119. American Literature.....		3
C186. Cost Accounting.....	2	C120. American Literature.....		3
C187. Income Tax Accounting.....	3	C153. Technical Writing.....		3
C191. Methods of Commercial Teaching.....	3	FRENCH		
THE CLASSICS IN ENGLISH				
C53. Scientific Terminology.....	2	C1n. Elementary French.....		4
C54. Scientific Terminology.....	2	C2. Elementary French.....		4
C57. Classical Literature in English.....	2	C13. Intermediate French.....		4
C58. Classical Literature in English.....	2	C14. Intermediate French.....		4
ECONOMICS				
C16. Agricultural Economics.....	3	C15. Scientific French.....		3
C51. Principles of Economics.....	3	C16. Scientific French.....		3
C52. Principles of Economics.....	3	C121. Survey of French Literature.....		3
C105. Money and Banking.....	3	C122. Survey of French Literature.....		3
C106. Money and Banking.....	3	C135. Nineteenth Century French Literature.....		3
C117. Marketing of Farm Products.....	3	C136. Nineteenth Century French Literature.....		3
C118. Co-operative Marketing.....	3	C141. Drama of the Seventeenth Century.....		3
EDUCATION				
C1. Introduction to Education.....	2	C142. Drama of the Seventeenth Century.....		3
C2. School-Room Management.....	2	C145. Contemporary French Literature.....		3
C55. Idaho Law, Manual, and Civics.....	2	C146. Contemporary French Literature.....		3
C59. Principles of Teaching.....	3	C145a. Contemporary French Literature.....		3
C105. History of Education.....	3	C146b. Contemporary French Literature.....		3
GEOLOGY				
C1. Introductory Geology.....	4	GERMAN		
C2. Historical and Physical Geology.....	4	C1n. Elementary German.....		4
C11. General Geography.....	3	C2. Elementary German.....		4
C12. Economic Geography.....	3	C13. Intermediate German.....		4
GERMAN				
C1n. Elementary German.....	4	C14. Intermediate German.....		4
C2. Elementary German.....	4	C15. Scientific German.....		3
C13. Intermediate German.....	4	C16. Scientific German.....		3
C14. Intermediate German.....	4	C115. Advanced Scientific German.....		1 or 2
C15. Scientific German.....	3			
C16. Scientific German.....	3			

Course	Credits	Course	Credits
C116. Advanced Scientific German.....	1 or 2	C51. History of Ancient Philosophy....	3
C141. Schiller	3	C52. History of Modern Philosophy....	3
C142. Schiller	3	C101. Ethics	3
GREEK		C102. Ethics (Advanced)	3
C1n. Elementary Greek.....	4	C108. Plato's Ethics.....	3
C2. Elementary Greek.....	4	C110. Philosophy of Science.....	3
HISTORY		POLITICAL SCIENCE	
C5. Nineteenth Century.....	3	C51. American Government	3
C6. Nineteenth Century.....	3	C52. American Government	3
C13. Classical Civilization	3	C123. State Government in the	
C14. Classical Civilization	3	United States.....	3
C107. English History.....	3	C124. City and County Government.....	3
C108. English History.....	3	C125. Comparative Government.....	3
C109. History of the United States,		C137. International Relations.....	3
1492-1763	3	PSYCHOLOGY	
C110. History of the United States,		C1. General Psychology.....	4
1763-1789	3	C2. Educational Psychology.....	3
C111. History of the United States,		C4. Applied Psychology.....	4
1789-1830	3	C54. Psychology of Advertising and	
C112. History of the United States,		Selling	3
1830-1865	3	C57. Psychology of the Exceptional	
HOME ECONOMICS		Individual	3
C131. House Management and		C106. Child Psychology.....	3
Sanitation	2	C117. Psychological Methods	3
C135. Child Development	2	SOCIOLOGY	
C136. The Family.....	2	C141. Principles of Sociology	3
LATIN		C142. Principles of Sociology	3
C1n. Elementary Latin	4	C145. Rural Sociology.....	3
C2. Elementary Latin	4	SPANISH	
C3. Intermediate Latin	4	C1n. Elementary Spanish	4
C4. Intermediate Latin	4	C2. Elementary Spanish	4
C51. Pliny's Letters.....	3	C13. Intermediate Spanish.....	4
C52. Latin Comedy.....	3	C14. Intermediate Spanish.....	4
C107. Teachers' Review of Latin	3	C111. Advanced Composition.....	2
C108. Teachers' Review of Latin	3	C112. Advanced Composition.....	2
C124. Teachers' Course.....	2	C121. Survey of Spanish Literature.....	3
MATHEMATICS		C122. Survey of Spanish Literature.....	3
C1. Freshman Mathematics	4	C141. The Golden Age	3
C2. Freshman Mathematics	4	C142. The Golden Age	3
C11. Freshman Mathematics	5	ZOOLOGY	
C12. Freshman Mathematics	5	C58. Heredity and Eugenics	2
C51. Calculus	4	C60. Social Hygiene.....	2
C52. Calculus	4	C107. Organic Evolution.....	3

The Summer School

Six-Weeks Term, June 7 to July 15, 1932

JAMES FRANKLIN MESSENGER, PH.D.....*Director*

ADMISSION.—The courses of the Summer School are open on the same terms as those of the regular session, as described in Part II. As far as possible, all credentials for prospective students should be mailed in advance to the Registrar, University of Idaho, Moscow. Entrance examinations are not required.

CREDITS.—Practically all courses offered are for University credit. Students desiring University credit will be required to pass the examinations given during the closing week of the session. A maximum of six semester-credits may be earned during the session.

UNDERGRADUATE WORK.—Undergraduate courses leading to the bachelor's degree are given just as they are during the winter session.

GRADUATE WORK.—The number of graduate students in the Summer session is increasing rapidly. A large part of the work in summer is planned for teachers who are candidates for the master's degree. It is possible to secure that degree in three summer sessions and outside work during the intervening two years.

BULLETIN.—For the special bulletin of the Summer School address: J. F. Messenger, Director, Summer School.

COURSES OFFERED IN 1931 SUMMER SCHOOL

AGRICULTURAL CHEMISTRY		HOME ECONOMICS	
Course	Credits	Course	Credits
S201. Research in Soil Chemistry		S1. Cooking and Serving	2
AGRONOMY		S133. Practice Cottage	2
S213. Research		S202. Research	
AMERICAN HISTORY		MATHEMATICS	
S112. Sectionalism and Civil War	2	S1. Freshman Mathematics	4
S125. Teachers' Course in American History	2	S2. Freshman Mathematics	4
S205. Research in American History	2	S12. Freshman Mathematics	5
S227. The American Frontier	2	S51. Calculus	4
BACTERIOLOGY		S52. Calculus	4
S211. Research		S121. Advanced Calculus	3
BOTANY		S122. Advanced Calculus	3
S3. Principles of Botany	4	S142. Teachers' Course	2
S53. Systematic Botany	2	MUSIC	
S104. Plant Histology	2	S3. Harmony	2
S109. The Teaching of Botany	2	S13. Keyboard Harmony	1
S207. Advanced Taxonomy	2-5	S111. Orchestration	2
S231. Research		S172. Elementary School Music	2
ECONOMICS		S173. Class Instrument Teaching (String Instruments)	1
S51. Principles of Economics	2	S175. Class Instrument Teaching (Wind Instruments)	1
EDUCATION		S177. (Junior) High School Music	2
S2. School Management	2	S178a. High School Music	2
S106. History of Education	2	S179a. Conducting	1
S113. Secondary Education	2	Chorus	1
S114. High School Methods	2	Orchestra	1
S201. School Health Education	2	Voice	½ to 1
S203. Educational Measurements	2	Piano	½ to 1
S204. School Administration	2	Violin	½ to 1
S205. School Finance	2	Violoncello	½ to 1
S207. Supervision of Instruction	2	Wind Instruments	½ to 1
S210. Philosophy of Education	2	PHILOSOPHY	
S211. Curriculum Construction	2	S51. History of Philosophy	2
S212. Curriculum Construction	2	S101. Ethics	2
S215. Educational Guidance	2	S107. Philosophy in Literature	2
S220. Current Educational Literature	2	S205. Research	
S260. Scientific Methods in Education	2	PHYSICAL EDUCATION (Men)	
S261. Research		S81a. Football	½
ENGLISH		S83a. Basketball	½
S1. English Composition	2	POLITICAL SCIENCE	
S2. English Composition	2	S51. American Government	2
S61. Elementary Literary Composition	2	S125. Comparative Government	2
S105. Advanced Literary Composition	2	S205. Research	
S108. Methods in Literature	2	PSYCHOLOGY	
S109. Play Production	2	S2. Educational Psychology	2
S120. American Literature	2	S106. Infant and Child Psychology	2
S123. Contemporary Drama	2	S207. Social Psychology	2
S124. Short Story	2	SOCIOLOGY	
S175. Readings in European Literature	2	S141. Principles of Sociology	2
S203. Special Problems	2	ZOOLOGY	
S205. Thesis Writing	2	S6. Physiology	2
S211. Research		S58. Heredity and Eugenics	2
GEOLOGY		S101. Teaching of Zoology	2
S1. Introductory Geology	4		
S11. General Geography	2		
S116. Geology and Geography of Idaho	2		

There are three main types of studies which are the basis of the elementary school curriculum. These are: (1) the study of the child himself, (2) the study of the child's world, and (3) the study of the child's future. The first type of study is the most important, for it is the basis of all other studies. The second type of study is the study of the child's world, and the third type of study is the study of the child's future.

THE RATE OF LEARNING IN THE ELEMENTARY SCHOOL

Grade	Rate of Learning	Grade	Rate of Learning
1	1.00	5	1.00
2	1.00	6	1.00
3	1.00	7	1.00
4	1.00	8	1.00
5	1.00	9	1.00
6	1.00	10	1.00
7	1.00	11	1.00
8	1.00	12	1.00
9	1.00	13	1.00
10	1.00	14	1.00
11	1.00	15	1.00
12	1.00	16	1.00
13	1.00	17	1.00
14	1.00	18	1.00
15	1.00	19	1.00
16	1.00	20	1.00
17	1.00	21	1.00
18	1.00	22	1.00
19	1.00	23	1.00
20	1.00	24	1.00
21	1.00	25	1.00
22	1.00	26	1.00
23	1.00	27	1.00
24	1.00	28	1.00
25	1.00	29	1.00
26	1.00	30	1.00
27	1.00	31	1.00
28	1.00	32	1.00
29	1.00	33	1.00
30	1.00	34	1.00
31	1.00	35	1.00
32	1.00	36	1.00
33	1.00	37	1.00
34	1.00	38	1.00
35	1.00	39	1.00
36	1.00	40	1.00
37	1.00	41	1.00
38	1.00	42	1.00
39	1.00	43	1.00
40	1.00	44	1.00
41	1.00	45	1.00
42	1.00	46	1.00
43	1.00	47	1.00
44	1.00	48	1.00
45	1.00	49	1.00
46	1.00	50	1.00
47	1.00	51	1.00
48	1.00	52	1.00
49	1.00	53	1.00
50	1.00	54	1.00
51	1.00	55	1.00
52	1.00	56	1.00
53	1.00	57	1.00
54	1.00	58	1.00
55	1.00	59	1.00
56	1.00	60	1.00
57	1.00	61	1.00
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59	1.00	63	1.00
60	1.00	64	1.00
61	1.00	65	1.00
62	1.00	66	1.00
63	1.00	67	1.00
64	1.00	68	1.00
65	1.00	69	1.00
66	1.00	70	1.00
67	1.00	71	1.00
68	1.00	72	1.00
69	1.00	73	1.00
70	1.00	74	1.00
71	1.00	75	1.00
72	1.00	76	1.00
73	1.00	77	1.00
74	1.00	78	1.00
75	1.00	79	1.00
76	1.00	80	1.00
77	1.00	81	1.00
78	1.00	82	1.00
79	1.00	83	1.00
80	1.00	84	1.00
81	1.00	85	1.00
82	1.00	86	1.00
83	1.00	87	1.00
84	1.00	88	1.00
85	1.00	89	1.00
86	1.00	90	1.00
87	1.00	91	1.00
88	1.00	92	1.00
89	1.00	93	1.00
90	1.00	94	1.00
91	1.00	95	1.00
92	1.00	96	1.00
93	1.00	97	1.00
94	1.00	98	1.00
95	1.00	99	1.00
96	1.00	100	1.00

PART V
Departments of Instruction

PART 7
Department of Instruction

DEPARTMENTS OF INSTRUCTION

NOTE.—Courses with odd numbers are given in the first semester; those with even numbers, in the second semester; courses numbered 1-2, 2-4, etc., continue through the year. A course which may cover the same subject matter in either semester has an odd number.

It will be observed that courses primarily for undergraduates are numbered between 1 and 99; courses for advanced undergraduates and graduates, between 100 and 199; and courses primarily for graduates, 200 and above. Only those courses numbered above 50 may be taken for credit in the Senior Colleges (except the elementary courses in mathematics, foreign languages, and applied and organized music may be so credited).

Courses marked with an *n* are those in which credit will not be given for the first semester's work until that of the second semester shall have been completed.

AGRICULTURAL CHEMISTRY

Associate Professors MAGNUSON and SNYDER

Courses 1, 2, and 53 in General Chemistry are prerequisite. Students desiring to specialize in professional agriculture are urged to take the more complete courses—1, 2, 51, 52; 101-102 and 111-112 in General Chemistry. Agr. Chem. 106 should be taken during the second semester of the Junior year, while Agr. Chem. 112 is open to Seniors.

Primarily for Undergraduates

2 General Agricultural Chemistry 2 credits Second semester

Lectures and laboratory work on Chemistry as applied to agriculture, including the following topics: the chemical principles that underlie the growth and nutrition of farm crops; their composition and utilization in animal nutrition; soils, fertilizers, and manures; milk and dairy products; insecticides and fungicides; paints and motor fuels and soils. Two lectures and two three-hour laboratory periods a week. (SNYDER)

For Advanced Undergraduates and Graduates

106 Chemistry of Dairy Products 2 credits Second semester

Analysis of milk, butter, cheese, and other dairy products, designed to meet the needs of advanced students in dairying. Two three-hour laboratory periods a week. Prerequisite: Agr.Chem. 2. (SNYDER)

112 Soil Chemistry 2 or 3 credits Second semester

The chemical nature of different soil types and the relation of the elements to crop production. Analyses of various types of soil by standard methods, to determine the available and total soil constituents. Discussion of methods. Recommendations for the improvement of each soil type by interpreting students' data. One lecture and two laboratory periods a week. (SNYDER)

Primarily for Graduates

201-203-205 Research Credits to be arranged

Special problems in soil chemistry, dairy chemistry, and nutrition. (SNYDER)

Agricultural Economics

(See under Economics)

AGRICULTURAL EDUCATION

Professor LATTIG, Mr. BRIGHAM

For Advanced Undergraduates and Graduates

- 150 Extension Methods in Agriculture** 2 credits Second semester
Methods used in the field by county agents, college faculty, extension specialists and teachers of vocational agriculture. Should be of value to all who expect to enter any field of public work in agriculture. (IDDINGS, LATTIG, AND OTHERS)
- 151 Vocational Education** 2 credits First semester
Vocational education: its history, meaning, aims, administration and place in the school system. Required in Agricultural Education Curriculum. (LATTIG)
- 152 Beginning Methods** 2 credits Second semester
For Juniors. Required in Agricultural Education Curriculum. (LATTIG)
- 153 Advanced Methods** 3 credits First semester
For seniors. A continuation of Agr. Ed. 152. Required in Agricultural Education Curriculum. (LATTIG)
- 155-156 Observation and Practice Teaching** 1 to 5 credits Either semester
Required in Agricultural Education Curriculum. Prerequisite: Agr. Ed. 152. (LATTIG, BRIGHAM)
- 158 Auxiliary Problems** 2 credits Second semester
A study of such problems as project accounting, evening and part-time classes, supervision of the Future Farmer Organization, and community work not covered in Agr. Ed. 153. Required in Agricultural Education Curriculum. Prerequisite: Agr. Ed. 153. (LATTIG)

Primarily for Graduates

- 251-252 Seminar** 1 to 4 credits Each semester
For seniors and graduates. (LATTIG)
- 253-254 Research** 1 to 4 credits Each semester
For graduates. (LATTIG)
- 257 Problems in Teaching Vocational Agriculture** 3 credits
For regularly employed teachers of vocational agriculture in Idaho. Includes attendance at summer conference for teachers of vocational agriculture, problems of methods, and new developments in the field of vocational agriculture. The course may be repeated three years with credit. (LATTIG)

AGRICULTURAL ENGINEERING

Professor BERESFORD, Assistant Professor KULP, Mr. MILLER,
Mr. HUMPHREY.

Primarily for Undergraduates

- | | | |
|---|-----------|-----------------|
| Plane Surveying | 3 credits | First semester |
| See Civil Engineering 3a. | | |
| 3 Elementary Drafting | 1 credit | First semester |
| Practice in lettering, graphic presentation of data, preparation of charts and tables for scale reduction, drawing to scale and dimensioning. One three-hour laboratory period a week. (MILLER) | | |
| 4 Agricultural Engineering | 3 credits | Second semester |
| Elementary problems of the application of Engineering to agricultural equipment and production. Two lectures and one three-hour laboratory period a week. (BERESFORD) | | |
| 5 Concrete | 1 credit | First semester |
| Practical problems in the use of concrete on the farm and ranch. Methods of insulation and water proofing; foundations; floor and wall construction. Reinforced concrete structures and equipment such as fence posts, water troughs, silos, etc. Material estimates, batch proportions for various strengths and curing. One three-hour laboratory period a week. (MILLER) | | |
| 8 Farm Building | 3 credits | Second semester |
| Problems in the design of buildings in the student's major field. Relation of building arrangement to chore labor. Floor planning, lighting, insulation and ventilation of farm buildings. Material estimates, methods for construction and cost computation. One recitation and two three-hour laboratory periods a week. Prerequisites: A.E. 4. (MILLER) | | |
| 12 Farm Water Supply and Sanitation | 2 credits | Second semester |
| Farm water supply and sanitary equipment. Refrigeration, ventilation, and heating; principles of rural fire protection and sewage disposal. Two lectures a week. (KULP) | | |
| 33 Gas Engines | 2 credits | First semester |
| Theory of internal combustion engines including the latest developments in the diesel and semi-diesel applications to agriculture power. Fuels, lubrications, and repair operations required for successful engine maintenance. One recitation and one three-hour laboratory period a week. Prerequisite: A.E. 4. (BERESFORD, HUMPHREY) | | |

For Advanced Undergraduates and Graduates

- | | | |
|--|-----------|----------------|
| 103 Farm Shop Practice Laboratory | 2 credits | First semester |
| Special projects in farm shop work with emphasis on Smith-Hughes teaching. Problems of shop instruction, arrangement of equipment, and | | |

shop practice. Two three-hour laboratory periods a week. Prerequisite: A.E. 4. (MILLER)

105-106 Pro-Seminar 1 credit Each semester
(BERESFORD, KULP)

132 Farm Machinery 2 credits Second semester
The selection and management of farm machinery and equipment. Students will be grouped in laboratory sections for problems in the operation, care and adjustment of machines used in their major field. One recitation and one three-hour laboratory period a week. Prerequisite: A.E. 4. (MILLER)

134 Tractors and Trucks 2 or 3 credits Second semester
Operation, construction, and care of tractors and trucks. Additional repair, testing, and operating may be secured by taking the second laboratory period. One lecture and one or two three-hour laboratory periods a week. Prerequisite: A.E. 33. (BERESFORD, HUMPHREY)

136 Machine Methods in Agriculture 3 credits Second semester
The principles of mass production applied to the problems of agriculture. Prerequisite: A.E. 4. (BERESFORD)

137 Gas Welding 2 credits First semester
The use of the oxy-acetylene torch for the repair, maintenance, and construction of farm machinery and equipment. Two three-hour laboratory periods a week. Prerequisite: A.E. 4. (HUMPHREY)

138 Farm Equipment Repair 2 credits Second semester
The adjustment and repair of the machines in common use on the farm. Farmstead construction and maintenance of equipment. Two three-hour laboratory periods a week. Prerequisite: A.E. 103. (MILLER)

139 Rural Electrification 3 credits Second semester
The application of electricity to agriculture, including elementary principles of electricity and magnetism. General operation of electrical appliances common to agricultural use. Two lectures and one three-hour laboratory period a week. Prerequisite: A.E. 4. (BERESFORD)

141 Dairy Engineering 3 credits First semester
Engineering in dairy manufacturing plants; theories and practical application involved in the properties of gases and liquids, fluid flow, heat transfer; steam generating equipment and management; refrigeration and power transmission; electric heat and power; pressure, temperature and time regulators; and dairy plant ventilation and sanitation. Two lectures and one three-hour laboratory period a week. (MILLER)

161 Irrigation Practice 3 or 4 credits First semester
The place of irrigation in western agriculture; use of irrigation water by crops; the application and conservation of water; time and amount of irrigation; drainage and alkali; irrigation institutions. The laboratory work includes a study of water measurement, irrigation pumps and elementary surveying, the layout of ditches, and the preparation of

land for irrigation. Three lectures and one three-hour laboratory period a week. May be taken without the laboratory. Prerequisite: Agron. 151. (KULP)

164 Irrigation Systems 2 credits Second semester

The operation and maintenance of irrigation systems. The delivery of water and the keeping of records. Factors which contribute to the success of projects. Two lectures a week. Prerequisite: A.E. 161. (KULP)

180-181 Agricultural Engineering Thesis 1 credit Each semester
(BERESFORD, KULP)

Primarily for Graduates

201-202 Seminar 1 credit Each semester
(BERESFORD, KULP)

203-204 Research Credits to be arranged Each semester
Special problems in farm power and machinery, rural structures, and land reclamation. (BERESFORD, KULP)

AGRONOMY

Professor HULBERT, Assistant Professors MICHELS and BELL

Primarily for Undergraduates

1 General Crop Production 4 credits First semester

An introductory course dealing largely with the principal factors underlying crop production. Discussions and recitations, upon the classification, distribution, improvement, cultural practices, harvesting, and marketing of grain and forage crops. Laboratory time is devoted to a study of the botanical characteristics and identification of crop plants and seeds. Freshman year. Three lectures and one three-hour laboratory period a week. (HULBERT)

For Advanced Undergraduates and Graduates

100 Advanced Crop Production 3 credits Second semester

Recitations and assigned readings on grain, forage, and small-seed production. Botanical classification, varietal studies, plant and seed identification are covered in the laboratory. Junior year. Two lectures and one three-hour laboratory period a week. Prerequisite: Agron 1. (HULBERT)

101 Genetics 4 credits First semester

The general principles of genetics, theories of heredity, evolution, variation, and Mendelism, including the application of these principles to crop and animal breeding. Junior year. Three lectures and one three-hour laboratory period a week. Prerequisite: Agron. 1. (MICHELS)

102 Crop Improvement 4 credits Second semester

A continuation of Agron. 101, considering methods used in breeding crops and the practical application of the principles studied in genetics.

Methods of conducting agronomic experiments, care and management of plots, and interpretation of data. Three lectures and one three-hour laboratory period a week. (MICHELS)

104 Commercial Grading and Marketing 2 credits Second semester

The commercial grading and marketing of small grains and hay. Laboratory grading of samples by Federal Grade Standards. This course should be taken by students in competitive judging. Junior or senior year. One lecture and one three-hour laboratory period a week. Prerequisite: Agron. 1. (HULBERT)

105 Seed Judging and Grading 2 credits First semester

Botanical classification, varietal studies, and the judging of small grain, corn, and legumes, are covered in the laboratory. This course should be taken by students interested in competitive judging. Junior or Senior year. Three two-hour periods a week. Prerequisites: Agron. 1 and 104. (HULBERT)

106 Seed Analysis and Identification 2 credits Second semester

Recitations cover weed dissemination, habits of growth, and control measures; legislative measures for sale of seed; weed control. Laboratory analysis of seed for purity and germination; identification of weed plants and seeds. Senior year. One lecture and one three-hour laboratory period a week. Prerequisite: Agron. 1. (HULBERT)

107 Advanced Judging and Grading 1 credit First semester

A continuation of Agron. 105.

110 Farm Management 3 credits Second semester

Qualifications of a farmer, choice of farming region, types of farming, crop rotation as related to farm management, cost of producing farm products, labor, equipment, capital, land rental, and marketing. Senior year. Prerequisites: Agron 1. and 151. (HULBERT)

113-114 Pro-Seminar 1 credit Each semester

A review of Experiment Station literature; papers by members of the department on investigations in progress; papers by students on special topics. Senior year. One hour a week. (HULBERT)

115-116 Undergraduate Research 1 to 3 credits Each semester

Problems in crops or soils. Students preparing for Federal or State Experiment Station work should complete a research problem. Results are to be written up as a technical paper. Amount of credit to be arranged after consultation. (HULBERT, BELL)

151 General Soils 4 credits First semester

An elementary course dealing with the formation of soils, their physical properties, and adaptation to agricultural uses. Junior year. Three lectures and one three-hour laboratory period a week. (BELL)

152 Soil Physics 3 credits Second semester

An advanced course covering the mechanics of soil moisture, temperature, tilth, etc. The most important physical properties serving as an

index to the texture and moisture-holding capacity will be studied. Senior year. Two lectures and one three-hour laboratory period a week. Prerequisite: Agron. 151. (BELL)

155 Origin and Classification of Soils 2 credits First semester

A study of the rocks and minerals from which soils are derived and a discussion of the processes of soil formation. The Bureau of Soils' methods of soil mapping. Junior year. Two lectures a week. Prerequisite: Agron. 151. (BELL)

156 Soil Management 2 credits Second semester

A consideration of the plant-food content and the fertility of different soil types; principles underlying the management of soils in the humid, arid, and semi-arid regions, and the utilization of fertilizers and manures. Senior year. Two lectures a week. Prerequisite: Agron. 151. (BELL)

Primarily for Graduates

213-214 Research 3 to 5 credits Each semester

Open only to graduates taking advanced work in Agronomy. Problems in plant breeding, crop production or soil physics and management may be selected. A thesis is required. (HULBERT, BELL)

215-216 Seminar 1 credit Each semester

Review of experimental work. Papers by members of the department on investigations in progress. Student reports on special topics. One hour a week. (HULBERT)

218 Advanced Genetics 3 to 5 credits Second semester

A study of methods of genetic testing and analysis. Particular attention given to formation of hypotheses explaining genetic phenomena. A critical study made of a number of the best examples of genetical analysis to be found in the periodical literature. Laboratory analysis of experimental data on cereals, corn, and "unknown" stock of *Drosophila*. Prerequisite: Agron. 101, or An.Hus. 112. (MICHELS)

AMERICAN HISTORY

Professor BROSNAN

21-22 History of the Americas 3 credits Each semester

History of Americas from discovery to present time. Planting of European civilizations in Western Hemisphere; growth of colonies; international contest for empire; wars for independence; development of independent American republics and their relation with each other. (BROSNAN)

111 Development of the Nation 3 credits First semester

A detailed study of period from 1789 to 1840. Federalist regime; Jeffersonian era; Second War of Independence, 1812-1815; growth of

national spirit with beginning of James Monroe's administration to advent of Andrew Jackson. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (Not given in 1932-33.) (BROSAN)

112 Sectionalism and Civil War 3 credits Second semester

Intensive study of period 1830 to 1865. Jacksonian Democracy; slavery in territories; growth of anti-slavery sentiment; gradual separation of sections; secession; the Civil War, 1861-1865. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (Not given in 1932-33.) (BROSAN)

115 Growth of American Diplomacy 3 credits First semester

Study of relation of United States to major powers. Pre-Revolutionary diplomacy; diplomacy during Revolution; diplomatic problems of Confederation; Washington and neutrality; Jefferson and neutrality; War of 1812; Monroe Doctrine; diplomacy of Expansion and Annexation to Civil War. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSAN)

116 American Diplomacy Since the Civil War

3 credits

Second semester

Diplomacy of Civil War; foreign problems of period; isolation; Spanish War and Far East; Great War and international cooperation; present day problems and the unfinished story. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSAN)

121 The Reconstruction Period 3 credits

First semester

A detailed survey of American history since the Civil War. Reconstruction and adjustment; recuperation and development; Granger and Greenback movements; Cleveland era; populism; free silver; and revolt of the West. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSAN)

122 America, A World Power 3 credits

Second semester

America among the World Powers; Roosevelt Era; Progressive Movement; Woodrow Wilson and "The New Freedom"; United States in World War; America since the War; Problems solved and unsolved. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSAN)

123 The Pacific Northwest 2 credits

First semester

Discovery by sea; Lewis and Clark; British and American fur trade; missionaries; emigrations over Oregon Trail; Oregon boundary; placer gold era; from mining camps to towns and cities; emergence of territories and states. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSAN)

124 Idaho and the Inland Empire 2 credits

Second semester

Idaho fur trade in relation to British and American operations; missionaries; Oregon Trail; earliest surveys; placer gold; territorial organization; Indian Wars; coming of railroads; progress in mining; forestry, and agriculture; irrigation; since World War. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSAN)

127 The American Frontier 3 credits First semester

Colonial explorations, settlement of coastal plain, colonization of river and lake regions, fur trade, land policies, old North West, explorations and trade routes to Far West, Santa Fe and Oregon Trails; Texas, Oregon, Mexican Cessions, Mormons, settlement of California, West and slavery, efforts for Pacific railway, and disappearance of Frontier. Prerequisites: Hist. 1-2, or 13-14, or 21-22. (BROSNAN)

128 Practical Problems for American History Teachers 2 credits Second semester

Practical problems confronting elementary and high school teachers of American History. Attention to broader problems of teachers' personal and professional preparation. Emphasis on cooperation by teacher in school and community life. Required of American History majors. Prerequisites: Hist. 1-2, or 13-14. (BROSNAN)

205-206 Research 1 to 5 credits Each semester

Conferences in connection with thesis studies to be arranged with instructor. (BROSNAN)

ANIMAL HUSBANDRY

Professor HICKMAN, Associate Professors NORDBY and GILDOW

*Primarily for Undergraduates***1 The Livestock Industry** 5 credits First semester

History and development; principles underlying the production and distribution of livestock and livestock products; relation to agriculture and other industries; commercial types of horses, cattle, sheep, and swine; characteristics and adaptation of the various breeds. Lectures, problems, reference reading. Approximately twenty per cent of the time will be devoted to the poultry industry. Breeds and varieties; judging for egg production; feeding and management. Three lectures and two three-hour laboratory periods each week. Required of Sophomores in Agriculture. Livestock: (NORDBY); Poultry: (LAMPMAN)

70 Sanitary Science 1 credit Second semester

Common diseases and accidents of livestock in National Forests, with modes of prevention. Emphasis is placed on diseases transferable to man. For forestry students. One lecture a week. (GILDOW)

*For Advanced Undergraduates and Graduates***103 Breed Types of Livestock** 2 credits First semester

Early history, development, and breed characteristics of the various improved breeds of domestic animals. Practice work in judging representatives of the various breeds according to standards set by breed associations and by the show-ring. One lecture and one three-hour

judging period a week. Required of Juniors in Animal Husbandry. Prerequisite: A.H. 1. (NORDBY)

104 Livestock Judging 1 credit Second semester

The judging of horses, cattle, sheep, and swine in groups with reference to breed and market types. One three-hour judging period a week. Prerequisites: A.H. 1 and 103. (HICKMAN)

106 Animal Nutrition 3 credits Second semester

Physiology of nutrition: digestion, absorption, metabolism, protein requirements, energy requirements, and utilization. Feeding stuffs: digestible nutrients, energy values, classification, description and use of feeds. Feeding; maintenance, growth, and production requirements. Required of Juniors in Animal Husbandry. Three lectures a week. Prerequisite: Chem. 53. (HICKMAN)

111 Advanced Livestock Judging 1 credit First semester

Continuation of A.H. 104, primarily for Seniors. Excursions are made to livestock farms and shows within the reach of the University. One three-hour judging period a week. Prerequisite: A.H. 104. (HICKMAN)

112 Animal Breeding 3 credits Second semester

Coordination of physiological background; general laws of heredity; methods of investigation; interpreting experimental data; application of principles to livestock improvement; problems and reference reading. Three lectures a week. Required of students in Animal Husbandry. Prerequisite: Zool. 1. (NORDBY)

113 Meat 2 credits Second semester

Butchering, curing, and care of meats; yield, quality, and values of meat and by-products as influenced by breeding, feeding, and health of meat animals; market classes, grades, and cuts of meat in wholesale and retail markets. Through courtesy of the Hagan and Cushing Co., students have opportunity to study killing, dressing, and curing of meats in the company's government-inspected packing plant. Lectures; practice. Prerequisites: A.H. 1 and junior standing in the College of Agriculture. (HICKMAN)

114 History of Breeds 3 credits Second semester

History and development of the leading breeds of horses, beef cattle, sheep, and swine. Methods of constructive breeders; tabulation of pedigrees; influence of families; work of breed associations. Lectures, assigned readings, and problems. Prerequisite: A.H. 103. (HICKMAN, NORDBY)

137 Horse Production 1 credit First semester

Problems of horse husbandry; breeding, feeding, and management. Lectures and reference reading. One recitation hour a week. Prerequisites: A.H. 1 and 106. Senior year. (NORDBY)

- 140 Livestock Farming** 2 credits Second semester
The physical and economic factors as they may determine the type of farming. The coordination of land, labor, and capital employed in the economic organization of livestock production involving the various classes of livestock. Planning livestock farming enterprises. Senior year. Two lectures a week. Prerequisite: A.H. 106. (NORDBY)
- 141 Livestock Production** 4 credits First semester
Breeding, feeding, management, and marketing of commercial and purebred beef cattle, hogs, and sheep. Four lectures a week. Prerequisites: A.H. 1 and 106. Senior year. (HICKMAN, NORDBY)
- 142 Range Livestock Management** 2 credits Second semester
A study of grazing lands, range plants, water development, and the methods of handling cattle and sheep on the range. Two lectures a week. Prerequisite: A.H. 141. Senior year. (HICKMAN)
- 157-158 Pro-Seminar** 1 credit Each semester
Investigation in selected lines of Animal Husbandry. Senior year. (HICKMAN, NORDBY, GILDOW)
- 159-160 Thesis** 1 credit Each semester
Required for graduation in Animal Husbandry. (HICKMAN, NORDBY, GILDOW)
- 171 Comparative Anatomy** 3 credits First semester
A systematic study of the bones, articulation, muscles and digestive, respiratory, genito-urinary, circulatory, and nervous systems, and the organs of special senses as a basis for later study in physiology, animal diseases, and the judging of animal form, capacity, and productivity. Two recitations and one laboratory period a week. (GILDOW)
- 172 Comparative Physiology** 3 credits Second semester
Functions of the animal body, including protoplasm, cells and tissues, blood and lymph, respiration, digestion, absorption, and metabolism, generation and development, from the standpoint of the natural and physical sciences. Three recitations a week. Prerequisite: A.H. 171. (GILDOW)
- 173 Animal Diseases** 3 credits First semester
A consideration of general factors entering into disease conditions, sanitation as related to disease and parasites. A study of parasites affecting animals. A general consideration of prevention, control, and treatment of farm animals. (GILDOW)
- 174 Specific Animal Diseases** 2 credits Second semester
A continuation of A.H. 173, taking up in detail specific infectious diseases, digestive disturbances, poisonous plants, and specific measures regarding prevention, control, and treatment of diseases affecting cattle, horses, sheep, hogs, and poultry. (GILDOW)
- Primarily for Graduates*
- 200-201 Research** Credits to be arranged Each semester
(HICKMAN, NORDBY, GILDOW)

ART and ARCHITECTURE

Assistant Professor PRICHARD*, Acting Assistant Professor IHRIG,
Mr. MELZIAN, Miss KIRKWOOD

ARCHITECTURE

Primarily for Undergraduates

- 11-12 Elementary Architectural Design** 2 credits Either semester
Lectures on the elements of architecture, followed by problems in line and space, using the simpler architectural elements. Shades and shadows and the application of washes are introduced. Three hours of drawing twice a week. (MELZIAN)
- 13 Shades and Shadows** 1 credit First semester
Elementary shades and shadows. (MELZIAN)
- 14 Architectural Perspective** 1 credit Second semester
Discussion of the phenomena of perspective and methods of representing distance, followed by exercises in drawing architectural perspectives. Three hours of drawing once a week. (MELZIAN)

For Advanced Undergraduates and Graduates

- 113-114 Intermediate Architectural Design** 3 credits Each semester
A series of problems in architectural composition and planning. Three hours of drawing three times a week. Prerequisite: Arch. 11-12. (MELZIAN)
- 115-116 Architectural Design** 4 credits Each semester
A continuation of Arch. 113-114. Three hours of drawing four times a week. Prerequisite: Arch. 113-114. (MELZIAN)
- 117-118 Advanced Architectural Design** 5 credits Each semester
A continuation course in architectural design. Elective for students who have completed Arch. 116. Three hours five times a week. (MELZIAN)
- 131-132 Architectural History** 3 credits Each semester
A study of ancient architecture; the Romanesque period; the Gothic period; Renaissance and modern architecture. Three lectures a week and research. (MELZIAN)
- 133-134 Building Construction** 3 credits Each semester
The nature and properties of materials used in building construction. Methods of construction. Three lectures or recitations a week. Prerequisite: Arch. 11-12. (MELZIAN)
- 136 Mechanical Plant of Buildings** 2 credits Second semester
The mechanical plant in its relation to the architectural problem. Insulation, acoustics, plumbing, and electrical installation, their funda-

*On leave of absence 1931-32.

mental principles and their application in the details of modern work.
Two lectures a week and research. (MELZIAN)

ART

*Primarily for Undergraduates***1-2 Freehand Drawing** 2 credits Either semester

The principles of freehand drawing and the elements of composition.
Drawing in pencil and charcoal. Two three-hour laboratory periods a
week. No prerequisites. (IHRIG)

3-4 Principles of Design 2 credits Either semester

Principles of design in line, dark and light, and color, to develop
power of appreciation and creation of good design. (KIRKWOOD)

51-52 Art Appreciation 2 credits Each semester

A consideration of the elements of beauty in the various arts. Slides,
lectures and discussion of painting, sculpture, and the minor arts. The
various viewpoints: the philosopher, the artist, the layman. (IHRIG)

*For Advanced Undergraduates and Graduates***101-102 Water Color Painting** 2 or 3 credits Each semester

Development of water color technique. Sketching from still life
and from nature. Three hours three times a week. Prerequisite: Art
1-2. (IHRIG)

103-104 Principles of Applied Design 2 credits Each semester

Wood-block printing and the book. Prerequisite: Art 3-4. Two
three-hour laboratory periods a week. (KIRKWOOD)

105-106 Intermediate Freehand Drawing

2 or 3 credits

Each semester

Advanced drawing from life, nature, and the antique. Three three-
hour periods a week. Prerequisite: Art 103-104. (KIRKWOOD)

107-108 Oil Painting 3 credits Each semester

Technique of oil painting; the palette. Painting from still life and
nature. Prerequisites: Art 1-2 and permission. Three three-hour periods
a week. (KIRKWOOD)

121 Alphabets 2 or 3 credits First semester

Mechanics of lettering and a study of historic styles. Prerequisite:
Junior standing. (IHRIG)

122 Advertising Layout 2 credits Second semester

The layout of advertising matter for newspaper and magazine work.
Relation of type to cut, spacing, balance, methods of reproduction. Pencil
layout and the criticism of good and bad examples. Prerequisites: limited
to advertising majors and advanced art students. (IHRIG)

123-124 Composition and Illustration 3 credits Each semester

A study of the technique of composition and illustration. Three three-
hour laboratory periods a week. Prerequisite: Art 1-2. (KIRKWOOD)

- 125-126 Modeling and Casting** 2 credits Each semester
Modeling in clay; piece, waste, and elastic moulds. Casting in plaster. Classes limited. Two three-hour laboratory periods a week. Prerequisite: Art 106 or 108. (IHRIG)
- 127-128 Advanced Freehand Drawing** 3 credits Each semester
Individual problems in various media. Three three-hour laboratory periods a week. Prerequisite: Art 106. (IHRIG)
- 129-130 History of Painting** 2 credits Each semester
A technical study of the great painters of history. Primarily for students majoring in Art. Prerequisite: Art 51-52 or Junior standing. (KIRKWOOD)
- 141-142 Advanced Oil Painting** 2 to 4 credits Each semester
Prerequisite: Art 107-108. (KIRKWOOD)
- 161-162 Pro-Seminar** Credits to be arranged Each semester
Critical readings in the fields of Art. Research and reports. (IHRIG)

BACTERIOLOGY

Professor HALVERSEN, Mr. CHERRINGTON

Primarily for Undergraduates

- 8 Hygiene and Sanitation** 3 credits Second semester
Communicable diseases, immunity, food, air, soil, water, sewage disposal, refuse disposal, vital statistics, industrial hygiene, and diseases of occupation, school hygiene, disinfection, etc. Two lectures and one quiz each week. Open to all students. (HALVERSEN)
- 10 Public Health** 2 credits Second semester
Applied hygiene and sanitation from the standpoint of bacteriological and related sciences. The prevention of communicable diseases; environment in relation to health and disease. (HALVERSEN)
- 51 General Bacteriology** 4 credits Either semester
A general survey of the field of Bacteriology, designed for students in the General Science courses and as a foundation for advanced work in the subject. Two lectures and two three-hour laboratory periods a week. Prerequisite: Chem. 1-2. Organic Chemistry is recommended. (HALVERSEN, CHERRINGTON)

For Advanced Undergraduates and Graduates

- 104 Pathogenic Bacteria** 4 credits Second semester
A study of the most important disease-producing organisms, serums, vaccines, etc.; animal experiments and practice in laboratory diagnosis. Two lectures and two three-hour laboratory periods a week. Prerequisite: Bact. 51. (CHERRINGTON)

- 106 Dairy Bacteriology** 3 credits First semester
A study of the number of bacteria in milk, butter, cheese, ice cream, and other dairy products, isolation and study of specific groups, effect of common farm dairy practices on the number of bacteria in milk, etc. One lecture and two three-hour laboratory periods a week. Prerequisite: Bact. 51. (CHERRINGTON)
- 107 Food Bacteriology** 4 credits First semester
Principles underlying the curing, ripening, and preservation of food products. A practical working basis for ascertaining the decomposition limits of foods suitable for human consumption. Methods of micro-analysis used by state and federal bureaus for food inspection. Two three-hour laboratory periods and two lectures a week. Prerequisite: Bact. 51. (HALVERSEN)
- 108 Bacteriological Technique** 3 credits Second semester
Preparation of special culture media, special staining methods, and problems involving special technique. One lecture and two three-hour laboratory periods a week. Prerequisite: Bact. 51. (CHERRINGTON)
- 109 Immunity** 3 credits First semester
An intensive study of the theories of immunity, with animal experiments in the production of immune sera, use of vaccines, preparation and testing of vaccines, sera, toxins, and antitoxins. One lecture and two three-hour laboratory periods a week. Prerequisites: Bact. 51 and 104. (HALVERSEN, CHERRINGTON)
- 110 Serology** 3 credits Second semester
A continuation of Bact. 109, with emphasis on complement fixation and serum reactions. Prerequisites: Bact. 51, 104, and 109. (HALVERSEN, CHERRINGTON)
- 111-112 Bacteriological Literature (Pro-Seminar)**
Credits to be arranged Each semester
(HALVERSEN OR CHERRINGTON)
- 113 Public Health Methods** 2 to 4 credits Either semester
Bacteriological methods employed in public health laboratories in the diagnosis of diseases, identification of organisms, and laboratory procedures as an aid in epidemiology. Designed to prepare students for public health laboratory service. Laboratory and lectures to be arranged. Prerequisites: Bact. 51 and 104. (CHERRINGTON OR HALVERSEN)
- 115-116 Special Problems** 1 or 2 credits Each semester
(HALVERSEN OR CHERRINGTON)
- 121 Clinical Diagnosis** Credits to be arranged Either semester
A course covering pathological and bacteriological methods used in hospital and public health laboratories. Laboratory work and lectures to be pursued in approved and designated hospital or public health laboratories containing suitable equipment and instruction to be given by indi-

viduals whose preparation would fit them for positions on the university faculty. Prerequisites: Bact. 51 and 104.

Primarily for Graduates

211-212 Research credits to be arranged Each semester
(HALVERSEN)

BOTANY*

Professor GAIL, Assistant Professor DIETTERT, Mr. DETLING, Miss ALLEN

Primarily for Undergraduates

1-2 General Botany 4 credits Either semester

Study of the cell and its functions, followed by a general survey of the entire plant kingdom, beginning with the lower forms. Elementary morphology, physiology, and anatomy of plants. Two lectures and two laboratory periods a week. (GAIL, DIETTERT, DETLING, ALLEN)

3 Principles of Botany 4 credits Either semester

A course designed to acquaint the student with the principles of Botany which play an important part in biological thought and to bring the student in contact with the plant life about him. Two lectures and two three-hour laboratory periods a week. (GAIL, DIETTERT, DETLING, ALLEN)

11 General Agricultural Botany 5 credits First semester

The fundamentals of Botany with special reference to agricultural subjects. Designed to serve as a basis for the work in Plant Physiology and Plant Pathology and the technical courses of the College of Agriculture. Two lectures, one quiz, and two laboratory periods a week. (DIETTERT, DETLING, ALLEN)

53-54 Systematic Botany 3 credits Each semester

Begins with a study of the lower seed plants and progresses toward the higher types. The monocotyledonous plants will be studied the first semester with special emphasis on the grasses; the dicotyledonous plants are studied the second semester. (GAIL, DETLING, ALLEN)

For Advanced Undergraduates and Graduates

102 Plant Physiology 4 credits Second semester

The physics, chemistry, growth, and movement of plants. Two lectures and two laboratory periods a week. Prerequisites: Bot. 1-2, or 11, and Chem. 1 and 2. (GAIL)

104 Plant Anatomy 3 credits Second semester

The tissues of plants considered from the standpoint of origin, development, and function. The technique of staining and mounting of sections of plants of the four major groups. One lecture and two labora-

*For Plant Pathology, see under Department of Plant Pathology.

tory periods a week. Prerequisites: Bot. 1-2 or 11, and Chem. 1-2. (DIETTERT)

105 Plant Ecology 4 credits First semester

Comparative study of plant tissues from the standpoint of origin and rôle, followed by field work in the greenhouse and fields near the University and some work in adjacent mountains. Two lectures and six laboratory hours a week. Prerequisites: Bot 1-2; 53-54; and 102. (GAIL)

109 The Teaching of Botany 2 credits First semester

The aim is to acquaint the students with the methods of teaching Botany in the high school. Materials, a review of subject matter, and texts will be considered. Two lectures a week. Prerequisites: Bot. 1-2 and 53-54. (DETLENG)

111 Mycology 4 credits First semester

A course planned to acquaint the student with a knowledge of the different groups of fungi and their economic importance. Two lectures and six laboratory hours a week. Prerequisites: Bot. 1-2 or 11. (DIETTERT)

121-122 Morphology 4 credits Each semester

A study of the structure and function, reproduction, and classification of the thallophytes, bryophytes, pteridophytes, and spermatophytes. Two lectures and two laboratory periods a week. Prerequisites: Bot. 1-2; 53-54. (DIETTERT)

123-124 Thesis 1 to 2 credits Each semester

125-126 Pro-Seminar 1 credit Each semester

Review of current literature; presentation of original work. Can be taken only by consent of the instructor. (GAIL, DIETTERT, DETLENG)

Primarily for Graduates

203-204 Plant Physics, Nutrition and Growth

2 or 3 credits Each semester

A course in plant physiology for majors in the department of Senior standing or for Graduate students. Two lectures with option of one laboratory period a week. Prerequisites: Bot. 1-2, 53-54, and 102; and working knowledge of Chemistry and Physics. (GAIL)

206 Advanced Plant Ecology 3 credits Second semester

Two lectures or recitations, and one laboratory period a week. Prerequisite: Bot. 105. (GAIL)

207-208 Advanced Taxonomy 2 or 5 credits Each semester

Taxonomy and morphology of special groups of plants. For Seniors or Graduate students. Prerequisites: Bot. 1-2, 53-54. (GAIL)

210 Advanced Mycology 3 credits Second semester

Collection, identification, and classification of the higher fungi; the relation of their occurrence to environmental factors. One lecture and

six laboratory hours a week. Prerequisites: Bot. 1-2 or 11, 53-54, and 111. (DIETERT)

221-222 Botanical Seminar 1 credit Each semester

Review of current journals; presentation of research work done or in progress. (GAIL, DIETERT)

231-232 Research Each semester

Students with sufficient preparation may be assigned to research problems in physiology, ecology, morphology, mycology, and taxonomy. (GAIL, DIETERT)

BUSINESS ADMINISTRATION

Professor FARMER, Associate Professor GRAUE, Assistant Professors DAVISON, REIERSON, VOGEL, WILDE. Mr. MOORE, Professor KERR

Primarily for Undergraduates

E-F Typewriting No credit Each semester
Previous training not required. (REIERSON)

G-H Advanced Typewriting No credit Each semester
Open to anyone who has had one year of typewriting. (REIERSON)

15n-16 Shorthand 3 or 4 credits Each semester
A beginning course in Gregg shorthand. Three credits for those who show sufficient skill on the typewriter to transcribe without further instruction; four credits for those who must take typewriting in addition. For shorthand, the class meets five times a week; for typewriting, there are five additional meetings a week. (REIERSON)

27 Business Organization 3 credits Second semester
Types of enterprise, including coöperative associations and socialization. (GRAUE)

71-72 Intermediate Dictation 3 or 4 credits Each semester
Dictation from material so graded and classified as to be effective in the development of shorthand speed, and so varied as to give the student an extensive business and shorthand vocabulary. Students who are unable to typewrite at the rate of sixty-five words a minute are advised to take advanced typewriting as laboratory with Business 71-72 and receive four credits. (REIERSON)

73-74 Expert Dictation 2 credits Each semester
Advanced dictation and court reporting. Prerequisite: a speed of 125 words a minute. (REIERSON)

76 Office Practice and Procedure 2 credits Second semester
Training in the various methods of filing; use of the mimeograph, multigraph, dictaphone, the telephone, and telegraph. Secretarial ethics and standards. Prerequisite: Bus 15-16. (Given in alternate years. Offered 1932-33.) (REIERSON)

- 81-82 Principles of Accounting** 3 credits Each semester
An introduction to the science of accounting. A survey of the fundamentals of bookkeeping which proceeds rapidly into the theory and mechanism of modern accounting, and the account interpretation. Lectures and laboratory. Prerequisite to all other courses in accounting. (WILDE, MOORE)

For Advanced Undergraduates and Graduates

- 108 Transportation** 3 credits Second semester
Railroad transportation, with minor consideration of ocean, automotive, and air transportation. (DAVISON)
- 113 Statistics** 3 credits First semester
Elementary principles of statistics as applied in the scientific study and interpretation of economic phenomena. (VOGEL)
- 124 Financial Administration** 3 credits Second semester
The financial problems of business enterprises. (FARMER)
- 126 Analysis of Financial Statements** 2 credits Second semester
(FARMER)
- 129-130 Retail Merchandising** 3 credits Each semester
The retail market: types of enterprise, analysis of organization, credit and prices. (DAVISON)
- 134 Production Administration** 2 credits Second semester
(Omitted, 1932-33)
- 136 Investments** 3 credits Second semester
The general problem of investments and the merits of the various types of securities. Prerequisite: Bus. 124. (GRAUE)
- 141 Foreign Trade** 3 credits First semester
Principles of international trade: tariff, foreign exchange, market development, dumping, foreign policies, trade agreements, merchandising. (DAVISON)
- 142 Foreign Trade Problems** 2 credits Second semester
Prerequisite: Bus. 141. (Omitted 1932-33)
- 152 Personnel Administration** 3 credits First semester
The technique of employment management. (MOORE)
- 153 Advanced Financial Administration** 3 credits First semester
(Omitted, 1932-33) (FARMER)
- 162 Office Management** 2 credits Second semester
A study of the well organized business office, with special attention to selection and training of office workers. A thorough study of the various departments. Office standards. (Given in alternate years. Omitted 1932-1933) (REIERSON)

- 165-166 Business Law** 3 credits Each semester
Legal aspects of common business transactions: contracts, sales, agency, partnership, corporations, guaranty and surety, bailment, and negotiable papers. (KERR)
- 167 Government Regulation of Business** 3 credits First semester
Federal and State regulation affecting business, with special reference to public utilities. (MOORE)
- 169 Marketing** 4 credits First semester
An analysis of the marketing process followed by a description and evaluation of the worth of the various marketing agencies and a description of the marketing of leading agricultural and manufactured products. (DAVISON)
- 175 Principles of Advertising** 3 credits First semester
Psychology and technique of advertising. (DAVISON)
- 176 Retail Advertising** 2 credits Second semester
Commodity advertising: layout exercises, copywriting; campaigns. Prerequisite: Bus. 175. (DAVISON)
- 177 Insurance** 3 credits First semester
Principles and practices of life and property insurance. (FARMER)
- 181-182 Advanced Accounting** 3 credits Each semester
Analysis of financial statements, actuarial science, partnership and corporation accounting. Prerequisite: Bus. 81-82, or equivalent. (WILDE)
- 183 Auditing** 3 credits First semester
The mechanics of auditing, reports, and auditor qualifications. Prerequisites: Bus. 81-82 and 181-182. (WILDE)
- 184 C.P.A. Problems** 3 credits Second semester
Survey course using actual Institute problems as a basis. Individual guidance, without lectures. Examinations at completion of each unit. Prerequisites: Bus. 181-182 and 185-186. (WILDE)
- 185n-186 Cost Accounting** 2 credits Each semester
Covering process and specific order costs. Should be taken in conjunction with Business 181-182. Prerequisite: Bus. 81-82. (WILDE)
- 187 Income Tax Accounting** 3 credits First semester
A study of the federal income tax laws as they apply to accounting. (WILDE)
- 191 Methods in Commercial Teaching** 3 credits First semester
The course of study of the high-school commercial department. Methods and practice-teaching. Open only to students who have taken Business E-F., 81-82, and 15n-16, or their equivalents. (REIERSON)
- 193-194 Business Conditions** 3 credits Each semester
A study of prices, price movements, and tendencies; current theories of business cycles; guidance of economic activity. (GRAUE)

196 Undergraduate Thesis Credits to be arranged Second semester

The preparation of a rather elaborate business study representing the results of investigation and analysis. Topics are selected with the advice of the member of the staff in charge of the student's major. Conferences, group meetings, discussion. (STAFF)

*Primarily for Graduates***211-212 Seminar in Business** Credits to be arranged Each semester

The topic for investigation and discussion will be selected from the field in which the student is engaged. Open only to Graduate students. (FARMER)

222 Economics of the Extractive Industries 3 credits Second semester
(Omitted 1932-33)

CHEMISTRY*

Professors VON ENDE and KOSTALEK, Assistant Professors CADY, DUSAULT and CONE; Mr. MARTIN, Mr. TURINSKY, Mr. TAYLOR

(NOTE.—A laboratory period consists of three consecutive hours.)

*Primarily for Undergraduates***1 General Chemistry** 4 credits First semester

Experimental lectures, quizzes and laboratory work. The laboratory work consists of a selection of representative experiments, including quantitative. Textbooks: Holmes' *Introductory College Chemistry*, University of Idaho *Laboratory Outline*. Two lectures, one quiz, and two laboratory periods a week. (Divided into two lecture, ten quiz, and nine laboratory sections.) (VON ENDE, KOSTALEK, CADY, DUSAULT, CONE, MARTIN, TURINSKY, TAYLOR)

2 General Chemistry 4 credits Second semester

Continuation of Chem. 1. The laboratory work consists of an introduction to qualitative analysis, as a means of studying the general chemistry of cations. Sections as in Chem. 1. Chem. 1 and 2 include about twenty-five problems each. Prerequisite: Chem. 1. (VON ENDE, KOSTALEK, CADY, DUSAULT, CONE, MARTIN, TURINSKY, TAYLOR)

51 Qualitative and Gravimetric Analysis 4 credits First semester

Theory and practice of analysis, with experiments in advanced inorganic chemistry. The laboratory practice also includes the qualitative separation of cations and anions, with the gravimetric estimation of a number of selected cations and anions, accompanied by laboratory quizzes, equation writing and problems. Textbooks: A. A. Noyes' *Qualitative Chemical Analysis*; Chapin's *Second Year College Chemistry*; and Hall's

*For the Chemical Engineering curriculum, see the College of Engineering section in Part III. For courses in Agricultural Chemistry and Soils Chemistry, see Agricultural Chemistry.

Quantitative Analysis. Two class and two laboratory periods a week. Laboratory Sections I and II. Prerequisites: Chem. 1 and 2. (CONE)

52 Quantitative Analysis (Volumetric) 4 credits Second semester

Continuation of Chem. 51. The laboratory work consists largely of volumetric analysis, including about thirty problems; Hall's *Quantitative Analysis*, and Chapin's *Second Year College Chemistry*. Periods per week and sections the same as for Chem. 51. Prerequisites: Chem. 1, 2, and 51. (CONE)

53 Organic Chemistry 4 credits First semester

(*With laboratory practice in quantitative analysis*). A condensed course of lectures, quizzes, and laboratory work, planned altogether for a special group of students in Agriculture. One half of the laboratory time is devoted to quantitative methods of analysis. Textbooks: Barrett's *Elementary Organic Chemistry*, and Talbot's *Quantitative Chemical Analysis*. Two lectures and two laboratory periods a week. Prerequisites: Chem. 1 and 2. (KOSTALEK, CADY, TURINSKY)

54 Carbon Compounds 3 credits Second semester

A course planned for students in Home Economics. Textbook: Barrett's *Elementary Organic Chemistry*. Three class periods a week. Prerequisites: Chem. 1 and 2. (KOSTALEK)

For Advanced Undergraduates and Graduates

101 Organic Chemistry 4 credits First semester

Three lectures a week on the general principles and theories of organic chemistry. One laboratory period a week which includes: four discussions of the fundamental operations employed in organic laboratory practice, the preparation of from five to six types of organic compounds, and written quizzes. Textbooks: Norris' *Organic Chemistry* and Norris' *Experimental Organic Chemistry*. Prerequisites: Chem. 1, 2, 51, and 52. (KOSTALEK, TURINSKY, TAYLOR)

102 Organic Chemistry 4 credits Second semester

Continuation of Chem. 101. Two lectures a week, with two periods of laboratory work including the preparation of ten to twelve aliphatic and aromatic compounds, and the quantitative determination of carbon and hydrogen. (KOSTALEK, TURINSKY, TAYLOR)

103 Advanced Quantitative Analysis 1 to 4 credits First semester

Laboratory work designed for students in Chemical Engineering and such other students as may need to continue quantitative analysis beyond Chem. 52. One to four laboratory periods a week. Prerequisites: Chem. 1, 2, 51, and 52. (CADY)

104 Special Quantitative Analysis 1 to 4 credits Second semester

Laboratory work one three-hour period a week for each credit. Prerequisites: Chem. 1, 2, 51, and 52. (CADY)

105-106 Theoretical and Physical Chemistry 3 credits Each semester

Lectures to serve as an introduction to the subject, with some emphasis on the study of the atom. Different phases of the field, not otherwise discussed, are selected, according to the student's individual interest, for a comprehensive report with bibliography. Laboratory work includes determinations of molecular weight, conductance, potential, viscosity, surface tension, solubility, and calorimetry. Two lectures and one laboratory period a week. Prerequisites: Chem. 1, 2, 51, and 52; at least first-year college physics; and Math. 51 and 52. (VON ENDE)

108 Industrial Chemistry 2 credits Second semester

A study of the fundamental principles involved in a number of typical chemical industries, with a discussion of raw materials, equipment, processes, and methods of control. Two class periods a week. Prerequisites: Chem. 1, 2, 51, 52, and 101. (Cady)

109-110 Thesis 1 to 3 credits Each semester

Prerequisites: (as a minimum) Chem. 1, 2, 51, 52, 101, and 102.

111 Biochemistry 3 credits First semester

An introduction to the chemistry of carbohydrates, lipins, proteins, the colloidal state, enzymes, digestion, tissues, blood, urine, and metabolism. Special emphasis is placed on the physical chemical principles involved. Three class periods a week. Prerequisites: Six to eight credits of Biology and Chem. 1, 2, 51, 52, 101, and 102. (CONE)

112 Biochemistry 3 credits Second semester

A continuation of Chem. 111, with laboratory work consisting of preparations, qualitative and quantitative experiments on the fundamental procedures of biochemical laboratory practice, with special emphasis on blood and urine analysis. One class period and two laboratory periods a week. Prerequisite: Chem. 111. (CONE)

113 Chemical Engineering 2 credits First semester

Two class periods a week on the unit operations of Chemical Engineering. Discussion and problems on fluid flow, heat transfer, evaporation, drying, and diffusion. Textbook: Badger and McCabe's *Elements of Chemical Engineering*. Must be preceded by or paralleled with M.E. 121, Thermodynamics. Prerequisites: Chem. 1, 2, 51, 52, 101, 102, 108. (Cady)

114 Chemical Engineering 4 credits Second semester

A continuation of Chem. 113, including problems and discussion of filtration, grinding, mixing, extraction, distillation, and gas absorption. The laboratory work is devoted to specialized technical analyses and performance tests on various types of equipment used in the unit operations. Two class periods and two laboratory periods a week. Prerequisite: Chem. 113. (Cady)

Primarily for Graduates

- 201-202 Advanced Organic Chemistry** 1 to 3 credits Each semester
Laboratory work consisting of special preparations and advanced quantitative organic analysis. (KOSTALEK, TURINSKY)
- 203-204 Research** 2 to 4 credits Each semester
It is intended to place at the disposal of mature and properly qualified students the working and instructional facilities of the department.
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- 205-206 Seminar** 1 credit Each semester
Prerequisites: Courses approved by the department. (DEPARTMENTAL STAFF)
- 207-208 Selected Chapters from Theoretical and Physical Chemistry** 2 credits Each semester
Reports, conferences, studies of the literature, lectures, and practicum, in special phases of the field. Prerequisites: Chem. 101, 102, and 105-106. (VON ENDE AND DEPARTMENTAL STAFF)

DEPOSITS.—A deposit to cover breakage and materials is required each semester.

CIVIL ENGINEERING

Professor CRAWFORD, Assistant Professors CARTER, HOWARD, and BUCHANAN

Primarily for Undergraduates

- 1 Engineering Drawing** 3 credits First semester
Freehand lettering; use of drawing instruments; orthographic projections; isometric and oblique drawings; working drawings. One recitation and six hours in drafting room a week.
- 2 Descriptive Geometry** 3 credits Second semester
Advanced orthographic projections, auxiliary, and oblique views; problems on point, line, and plane; classification of surfaces; surface developments and intersections; tangent planes; warped surfaces. One recitation and six hours in drafting room a week. Prerequisite: C.E. 1.
- 3 Plane Surveying** 4 credits First semester
Theory and use of transit, level, and minor instruments. Land surveying. Government method of laying out public lands. One recitation and nine hours of field work and computations a week. Prerequisites: Math. 11 and C.E. 1.
- 3a Plane Surveying** 3 credits First semester
For Forestry students. One recitation and six hours of field work and computations a week. Prerequisites: Math. 11 and C.E. 1.
- 3b Plane Surveying** 2 credits Second semester
A brief course in the theory and use of the transit, level, and other instruments, for electrical, mechanical, and chemical engineering students.

One recitation and three hours of field work a week. Prerequisites: Math. 11 and C.E. 1.

- 4 Topographic Surveying** 3 credits Second semester
A study of methods employed in making topographic surveys. The topographic survey of a given area, including calculations and the map. One recitation and six hours in the field and drafting room a week. Prerequisite: C.E. 3, or 3a.
- 6 Mechanics (Statics)** 2 credits Second semester
Composition and resolution of forces; laws of equilibrium; stresses in frames; centers of gravity; moments and products of inertia; analytical and graphical methods of solution. Prerequisites: Math. 51 and Phys. 11.
- 8 Plane Curves** 1 credit Second semester
Simple, compound, reversed, and parabolic curves. A recitation and problem course. Prerequisite: C.E. 3, or 3a.
- 9 Engineering Problems** 1 credit First semester
Training in computation and analysis of engineering problems. One laboratory period a week. Prerequisite: To be taken with Math. 11.
- 10 Engineering Problems** 1 credit Second semester
A continuation of C.E. 9.

For Advanced Undergraduates and Graduates

- 101 Mechanics (Dynamics)** 2 credits Either semester
A continuation of C.E. 6. Rectilinear motion; curvilinear motion; translation and rotation; work and energy; momentum and impulse. Prerequisites: Math. 51-52 and C.E. 6.
- 102 Framed Structures** 3 credits Second semester
The calculation of stresses in statically determinate framed structures by algebraic and graphic methods. Two recitations and three hours in the drafting room a week. Prerequisite: C.E. 103.
- 103 Mechanics of Materials** 3 credits First semester
The elasticity of materials; stress and strain; the theory of flexure; strength of riveted joints; column theory; combined stress; fatigue of metals. Prerequisites: Math. 51-52 and C.E. 6.
- 104 Hydraulics** 3 credits Second semester
The theory of hydrostatics and hydrodynamics; measurement of flow by wires, orifices, and current meters; friction in pipes; flow in pipes, conduits, and canals; impulse and reaction wheels. Two recitations and one laboratory period a week. Prerequisite: C.E. 101.
- 105 Highways and Streets** 2 credits First semester
Location and surveys of highways. Earth, sand-clay, gravel, and broken stone roads; bituminous surface; concrete, brick, wood, stone, and asphalt and other bituminous pavements. Prerequisites: C.E. 3 and 4.

- 106 Reinforced Concrete Theory** 2 credits Second semester
Theory of stress distribution in reinforced concrete beams, slabs, and columns. Prerequisite: C.E. 103.
- 107 Railroad Engineering** 2 credits First semester
Trackwork; easement curves; earthwork computations; the mass diagram. Prerequisites: C.E. 3, 4, and 8.
- 109 Materials Testing Laboratory** 2 credits First semester
A study of the physical properties and the testing of steel, wrought and cast iron, timber, cement, and concrete. Six hours a week in laboratory. Prerequisite: C.E. 102, or to be taken with C.E. 103.
- 109a Materials Testing Laboratory** 1 credit Second semester
For electrical and chemical engineering students. Three hours a week in laboratory. Prerequisite: C.E. 103, or to be taken with C.E. 103.
- 110 Advanced Mechanics of Materials** 2 credits First semester
Stresses in curved beams, hooks, flat plates, and rings; deformations of structures; impact stresses; moment-area principles. Prerequisite: C.E. 103. Elective.
- 111 Road Materials Laboratory** 2 credits Either semester
Investigations of road-making materials. Prerequisite: C.E. 105. Elective.
- 113 Railway and Highway Surveying** 3 credits First semester
Problems solved in field. Surveys made; quantities computed; profiles and maps drawn. Nine hours a week in field and drafting room. Prerequisites: to accompany C.E. 105 and 107.
- 120 Irrigation** 2 credits Second semester
The principles of irrigation engineering; design, construction, and maintenance of structures; studies of constructed projects. Prerequisites: C.E. 103 and 104.
- 121 Structural Design** 3 credits First semester
Design of steel and concrete bridges, steel and concrete buildings. Nine hours a week in the drafting room. Prerequisites: C.E. 102 and 106, and to be taken with C.E. 123.
- 122 Water Supply** 2 credits Second semester
Fundamentals of water supply engineering; choice of supply; construction of dams; design of distributing system; elevated tanks. Prerequisites: C.E. 103 and 104.
- 123 Steel Structures** 2 credits First semester
Structural theory, methods of construction, and economics of steel bridges and buildings. Prerequisites: C.E. 102, and to be taken with C.E. 121.

- 124 Contracts and Specifications** 2 credits First semester
Brief statement of law of contracts and consideration of general and technical clauses in engineering specifications. Prerequisite: senior standing.
- 125 Sewers and Sewerage** 2 credits First semester
The principles involved in the design, construction, and maintenance of sewers and sewerage systems. Prerequisite: C.E. 104.
- 126 Concrete Structures** 5 credits Second semester
A study of cements; the proportioning of concretes; foundations for bridges and buildings; retaining wall theory; masonry dams; arch theory. Three recitations and six hours in the drafting room. Prerequisites: C.E. 102 and 106.
- 127 Waterpower Engineering** 2 credits First semester
Hydrology and stream flow; conditions governing selection of impulse wheels and reaction turbines; reservoirs and their relation to power demands; economics of power development. Prerequisite: C.E. 104.
- 128 Pro-Seminar** 1 credit Second semester
A study of technical periodicals and literature. Papers on engineering topics are prepared, read, and discussed. Prerequisite: senior standing.
- 130 Thesis** 3 credits Either semester
A problem in design or investigation. Open only to senior students of high standing.
- 132 Industrial Structures** 2 credits Second semester
The design and construction of industrial buildings of steel, wood, and concrete. Prerequisite: C.E. 121.
- 135 Estimates and Costs** 2 credits First semester
The preparation of quantity surveys, cost estimates, and cost reports. Economic comparisons between different types of structures. Prerequisite: senior standing.
- 137 Statically Indeterminate Stresses** 3 credits First semester
Methods of determining deflections and the general theory of statically indeterminate stresses. Two recitations and three hours in drafting room a week. Prerequisite: C.E. 102.
- 138 Engineering Administration** 2 credits Second semester
Principles of organization; valuations of public utilities; rate structures; public utility economics. Prerequisite: senior standing.
- 140 Airplane Stress Analysis** 2 credits Second semester
The fundamental principles of stress analysis with particular reference to the airplane. Brief consideration of materials commonly used in airplane construction. Analysis and design of wings, chassis, fuselage, and other parts. Prerequisites: C.E. 101 and 103.

Primarily for Graduates

- 201 Water Purification and Sewage Disposal**
Credits to be arranged First semester
- 202 Statically Indeterminate Structures**
Credits to be arranged Either semester
- 219-220 Advanced Structural Design**
Credits to be arranged Each semester
Advanced reinforced concrete and steel design covering arch, cantilever, and suspension bridges; steel framing of office buildings; foundations. Prerequisite: C.E. 202.
- 241-242 Research** Credits to be arranged Each semester

CLASSICAL LANGUAGES

Professor AXTELL, Miss RENTFRO

The courses given in this department are intended for three classes of students: A. Those in the Latin language; B. Those in the Greek language; and C. Those who wish, without learning the original languages, to know the literary and other works of the classical peoples inherent in modern civilization.

A. LATIN

The courses listed below are intended for students who wish to study Latin to fulfill their requirements in a foreign language, to major in the subject, or to secure elective credits. The complete requirements for the Latin Curriculum are stated in the Letters and Science section, Part III.

Students who wish chiefly an acquaintance with Roman history and institutions should elect Hist. 14, Classical Civilization. See under European History.

Primarily for Undergraduates

- 1n-2 Elementary Latin** 4 credits Each semester
Besides preparing to read Latin the course deals especially with the Latin-English words and phrases in literature, law, and the sciences. Translation of easy selections from classic myths, stories from Roman history. (AXTELL)
- 3-4 Intermediate Latin** 4 credits Each semester
Translation of narratives dealing with Roman life, reading of selected orations of Cicero, and study of Roman government constitute the work of the first semester. In the second semester Vergil's *Aeneid* is translated in part and the principles of his poetry are studied. Prerequisites: Latin 1-2, or two years of high-school Latin. (RENTFRO)
- 51 Pliny's Letters** 3 credits First semester
Selected *Letters* bearing on the life of the Roman Empire. Investigation of topics suggested by the *Letters*. Characteristics of Latin literature in the "Silver Age." Prerequisites: Latin 3-4, or three years of high-school Latin. (RENTFRO)

- 52 Latin Comedy** 3 credits Second semester
Selected comedies of Plautus and Terence. Papers and reports on topics connected with the Roman drama. Study of early colloquial diction and dramatic poetry. Prerequisites: Latin 3-4 or three years of high-school Latin. (RENTFRO)

For Advanced Undergraduates and Graduates

- 101 Horace** 3 credits First semester
Selected *Odes* and *Satires* which show Horace's career, literary development, and character are read. Study of the principles of Roman lyric poetry. Investigation of the culture of the court of Augustus. Prerequisites: Latin 51 or 52 or four years of high-school Latin. (AXTELL)
- 102 Livy** 3 credits Second semester
Translation of selections from Livy's history of Rome. Study of the principles of Latin narrative. Prerequisites: Latin 51 or 52 or four years of high-school Latin. (AXTELL)
- 111-112 Prose Composition** 2 credits Each semester
Systematic exercises affording a thorough review of Latin grammar. Best studied in connection with either Lat. 51-52, or 101-102. Prerequisites: Latin 3-4 or three years of high-school Latin. Required for a recommendation to teach Latin. (AXTELL)
- 121-122 Directed Reading** 2 or 3 credits Each semester
Rapid translation of standard Latin authors not usually read in the first years of college. Selection will be made to suit the needs and desires of the class. Prerequisites: Lat. 51, 52, 101, and 102, or equivalent courses. (RENTFRO)
- 123 History of Latin Literature** 2 credits First semester
A study of the development of Latin literature to the third century, A.D. Textbook, lectures, and outside reading in translations. (Not given in 1932-33.) (AXTELL)
- 124 Teachers' Course** 2 credits Second semester
Comprehensive and advanced work in details of Latin philology necessary for the efficient teacher. Ideals, means, and methods of teaching Latin in the high school. (Not given in 1932-33.) (AXTELL)
- 125-126 Pro-Seminar** 1 to 3 credits Each semester
A study of the antiquities and topography of Rome. (AXTELL)

Primarily for Graduates

- 201-202 Research** Credits to be arranged Each semester
Special topics in Latin literature or antiquities will be set for investigation. (AXTELL)

203 Latin Epigraphy 3 or 4 credits First semester

A study of Latin inscriptions: materials, forms, classes, and bearing upon Roman history. Important examples will be investigated intensively. (AXTELL)

204 Roman Life 3 or 4 credits Second semester

A study of Roman customs and manners by use of literary references and illustrations from antiquities. A special topic will be assigned each student for investigation. (AXTELL)

B. GREEK

Students may begin the study of Greek in the first semester of any collegiate year. It may be taken to satisfy the requirements in a foreign language. For the curriculum in Greek see page 45. Students who wish chiefly an acquaintance with Greek history should elect Hist. 13, Classical Civilization. Those who wish to know Greek literature through English translations should elect English 57.

*Primarily for Undergraduates***1n-2 Elementary Greek** 4 credits Each semester

First lessons comprising the main features of inflection and syntax are learned, simple sentences are written into Greek, and easy selections from Greek authors are translated. Emphasis is placed upon the Greek words in current use in modern English writing. (AXTELL)

3-4 Intermediate Greek 4 credits Each semester

In the first semester selections from Xenophon and Herodotus and other prose writers are translated and practice in writing Greek is continued. In the second semester passages from Homer are translated and various topics such as the influence of Homer upon English literature are investigated. (AXTELL)

*For Advanced Undergraduates and Graduates***101 Plato** 3 credits First semester

The *Apology* and selections from the *Phaedo* and *Crito*. Analysis of other Socratic dialogs. Introduction to Greek philosophy. Study of Plato's life and thought. Prerequisite: Greek 3-4, or equivalent courses. (AXTELL)

102 Greek Tragedy 3 credits Second semester

Translation of a representative tragedy, such as the *Antigone*, *Prometheus Bound*, or *Alcestis*. Lectures and papers on the evolution of classical tragedy. Study of lyric choruses. Prerequisite: Greek 3-4, or equivalent courses. (AXTELL)

103 Herodotus 3 credits First semester**104 Theocritus** 3 credits Second semester**105 Greek Lyrical Poetry** 3 credits First semester**106 New Testament Greek** 3 credits Second semester

- 107 History of Greek Literature** 2 credits First semester
108 Greek Archeology 2 credits Second semester

C. THE CLASSICS IN ENGLISH

- 53-54 Scientific Terminology** 2 credits Either semester

A study of the fundamental Latin and Greek words used in the humanistic and natural sciences. Particular attention will be given to the terminology of the study in which each student is specially interested. (AXTELL)

- 60 Classical Art** 2 credits Second semester

A study of the development of Greek and Roman sculpture and painting. Recognition of famous examples found in modern galleries and museums. (AXTELL)

NOTE.—Hist. 13-14, Classical Civilization, are courses giving a rapid survey of the history and main institutions of Greece and Rome. See under European History. For Classical Literature in English translations see English 57-58.

DAIRY HUSBANDRY

Professor ATKESON, Associate Professor THEOPHILUS,
 Mr. WARREN, Mr. HANSEN

These courses are so arranged that the student may specialize either in dairy production or in dairy manufacturing.

Primarily for Undergraduates

- 2 Elements of Dairying** 4 credits Second semester

A general survey of the industry; composition of milk, its food value, various products of milk and their importance, and methods of dairy-herd improvement. Study of the Babcock test, cream separation, and the judging of dairy products and dairy cattle. Three lectures and one laboratory period a week. (WARREN)

For Advanced Undergraduates and Graduates

- 105 Dairy-Cattle Judging** 2 credits First semester

A study of the types of the various breeds of dairy cattle, with comparative judging. Prerequisite: D.H. 2. (ATKESON)

- 107 Advanced Dairy-Cattle Judging** 1 credit First semester

Continuation of D.H. 105. (ATKESON)

- 108 History of Breeds and Dairy-Cattle Breeding** 3 credits Second semester

Study of the history, development, and modern blood lines of the Ayrshire, Guernsey, Holstein, and Jersey breeds of cattle; study of the principles of breeding as practiced today, and the formation of definite breeding policies for a herd. Prerequisite: D.H. 2. (ATKESON)

- 109 Judging Dairy Products** 1 credit First semester
A study of quality and market standards in dairy products, including practice in scoring butter, cheese, ice cream, milk, and cream. Three one-hour laboratory periods a week. Prerequisite: D.H. 2. (THEOPHILUS)
- 111 Advanced Dairy-Products Judging** 1 credit First semester
Continuation of D.H. 109. (THEOPHILUS)
- 113 Advanced Testing** 1 credit First semester
Various tests such as tests for moisture, fat, salt, adulterants, etc. in butter, cheese, ice cream, condensed milk, etc. Required of majors in Dairy Husbandry. One two-hour laboratory period each week. Prerequisite: D.H. 2. (HANSEN)
- 114 Market Milk** 3 credits Second semester
A study of the sanitary handling of market milk, methods of pasteurization and inspection, certified milk, grading and scoring milk and milk plants, milk ordinances, the relation of milk to disease, bacteriology of milk. Two lectures and one three-hour laboratory period a week. Prerequisites: D.H. 2 and 113. (HANSEN)
- 116 Cheese Making** 4 credits Second semester
Methods of manufacture of cheddar, Neufchatel, cottage, and other types of cheese. Required of majors in Dairy Husbandry. Two lectures and one six-hour laboratory period a week. Prerequisites: D.H. 2 and 113. (HANSEN)
- 117 Creamery Butter Making** 4 credits First semester
Factory methods of butter-making, including grading, pasteurization, ripening and churning cream, and packing butter. Required of majors in Dairy Husbandry. Two lectures and one one-hour laboratory in the afternoon with a four-hour laboratory the following morning. Prerequisites: D.H. 2 and 113. (THEOPHILUS, HANSEN)
- 119 Ice Cream and Ices** 3 credits First semester
The making of ice cream and other frozen products. Two lectures and one three-hour laboratory period a week. Prerequisites: D.H. 2 and 113. (THEOPHILUS)
- 120 Dairy Cattle Feeding and Management** 4 crs. Second semester
A study of the breeding, care, and feeding of dairy stock, the planning and arrangement of dairy buildings, the management of purebred herds, fitting for show, feeding for official records, sales and advertising, cattle photography. Required of majors in Dairy Husbandry. Three lectures and one three-hour laboratory period a week. Prerequisite: D.H. 2. (ATKESON)
- 121 Factory Management** 2 credits First semester
The location, construction, organization, and management of creameries, cheese and ice-cream factories, and city milk plants, including a study of power, refrigeration, and advertising. Two lectures a week. Prerequisite: D.H. 2. (THEOPHILUS)

- 125 Milk Technology** 2 credits First semester
Composition of dairy products; methods of manufacture of condensed milk, powdered milk, casein, milk sugar, and other dairy by-products. Two lectures a week. Prerequisites: D.H. 2 and 113. (THEOPHILUS)
- 129-130 Pro-Seminar** 1 credit Each semester
A study of dairy problems and review of literature. Required of majors in Dairy Husbandry. (THE STAFF)
- 131-132 Undergraduate Research** Credits arranged Each semester
Students with ability to do independent work may be assigned special problems in some phase of dairy production or dairy manufacture. (ATKESON, THEOPHILUS)
- 133-134 Thesis** 1 credit Each semester
Required for graduation in Dairy Husbandry. (ATKESON)
- Dairy Bacteriology** 3 credits First semester
See Bacteriology 106.
- Chemistry of Dairy Products** 2 credits Second semester
See Agricultural Chemistry 106.
- Dairy Engineering**
See Agricultural Engineering 141.

Primarily for Graduates

- 229-230 Seminar** 1 credit Each semester
(THE STAFF)
- 231-232 Graduate Research** Credits to be arranged Each semester
Experimental work in either dairy production or dairy manufacturing, to be written up in the form of a thesis. (ATKESON, THEOPHILUS)

Dramatics

(See under English)

ECONOMICS

Professor FARMER, Associate Professor GRAUE, Assistant Professors
DAVISON, and VOGEL, Mr. MOORE

Primarily for Undergraduates

- 16 Agricultural Economics** 3 credits Second semester
Description and analysis of the factors in agricultural production and their relationships in determining the profitableness of the farm business; agricultural development in the United States; financing the farm business; and some fundamental principles underlying marketing of farm products. (VOGEL)

- 51-52 Principles of Economics** 3 credits Each semester
A study of contemporary economic institutions—their foundation, organization, and principles of working order as displayed by scientific inquiry. (GRAUE)
- 54 Economics for Technical Students** 3 credits Second semester
A course in the basic principles of economics. Open only to students in engineering, forestry, and mining. (DAVISON)
For Advanced Undergraduates and Graduates
- 105-106 Money and Banking** 3 credits Each semester
The theory of money and banking, with some emphasis on banking practice. (FARMER)
- 109 Public Finance** 3 credits First semester
Public expenditures and revenues. Federal, state, and local financial problems. Prerequisite: Econ. 51-52. (FARMER)
- 112 Labor Problems** 3 credits First semester
The fundamental principle of labor economics. (MOORE)
- 117 Marketing Farm Products** 3 credits First semester
Description of the various services performed in marketing agricultural products; marketing methods; marketing agencies; analysis of the operations of the produce exchanges; price making; future trading; demand creation; adapting production to market conditions; governmental authority in relation to marketing; basic principles of cooperation. Prerequisite: Econ. 16 or Econ. 51-52. (VOGEL)
- 118 Cooperative Marketing** 3 credits Second semester
An intensive study of farmer coöperative marketing and purchasing agencies. A careful analysis of the organization, methods, and policies of the prevailing type of cooperative enterprises. Prerequisite: Econ. 114 or Bus. 169. (VOGEL)
Primarily for Graduates
- 201 Economics of Enterprise** 3 credits First semester
An advanced course in Economic theory, representing a study of society from the entrepreneur point of view of price. For registration, consult the instructor. (GRAUE)
- 202 History of Economic Thought** 3 credits Second semester
A historical-analytical survey of economic doctrines with special emphasis upon the theories of value and distribution. (GRAUE)
- 213-214 Seminar in Economics** Credits arranged Each semester
This course is open only to Graduate students. Material and topics to be selected. (FARMER, GRAUE)
- 215-216 Research in Economics of the Extractive Industries**
Credits to be arranged Each semester
Research in production or marketing problems of the extractive industries. For Seniors and Graduate students, with the consent of the instructor. (VOGEL)

EDUCATION

Professors MESSENGER, RUSSELL, HOLLEY, and LATTIG, Associate Professors
McCoy, and SMITH

*Primarily for Undergraduates***1 Introduction to Education** 2 credits First semester

A general introductory course for those who have made no professional study of education. Seeking to cultivate an attitude favorable to the scientific investigation of educational problems, it touches on a wide variety of topics, gives results of scientific studies, and raises vital questions for further study. Open to Freshmen and Sophomores. (McCoy)

2 School-Room Management 2 credits Second semester

A practical course dealing with the concrete classroom problems of the teacher. (HOLLEY)

11 Student Problems 1 credit First semester

Required of all Freshmen. The purpose of the course is to help the student adjust himself to College and to prepare for the position he expects to fill after graduation. Mutual acquaintance is the most important feature. Only open to Freshmen and new students who are Sophomores. (MESSENGER)

15 Elementary Education 2 credits First semester

A course for those students who expect to teach or supervise in the elementary schools. (McCoy)

55 Idaho Law, Manual, and Civics 2 credits First semester

Idaho school law, the state manual and course of study, and the civil government of Idaho. Required of all who wish to be recommended for a certificate. (McCoy)

57 Observation and Teaching in Elementary School

1 to 4 credits Each semester

To be arranged with the Director of Practice Teaching and the Dean of the School of Education.

59 Principles of Teaching 3 credits First semester

The course presents in a practical way the fundamental processes of instruction. (SMITH)

*For Advanced Undergraduates and Graduates***101 Elementary School Supervision** 3 credits First semester

Intended for those preparing to be critic teachers, supervisors, and principals or superintendents of schools. (HOLLEY)

105-106 History of Education 3 credits Each semester

A survey of the development of educational ideals and practices from the age of primitive man to the present. The purpose is to consider what

has been thought and tried in the past and use the information thus gained in evaluating the theories and practices of today. (MESSENGER)

111 The Junior High School 3 credits First semester

A study of the fundamental principles of present-day reorganization of high-school education, with special emphasis upon junior high-school organization, administration, and method of instruction. Prerequisite: six credits in Education. (McCoy)

113 Principles of Secondary Education 3 credits First semester

A study of high-school education from three points of view: (a) the high-school pupil and his characteristics; (b) the high school as an institution and its relation to society and to other educative institutions; (c) the high-school course of study, especially as regards the aims and values of the different subjects. Prerequisite: six credits in Education. (HOLLEY)

114 High-School Methods 3 credits Second semester

A course in the practical problems of teaching technique. It seeks, however, to establish fundamental principles of procedure rather than specific formulæ. Prerequisite: six credits in Education. (HOLLEY)

115 Educational Guidance 3 credits First semester

A study of the objectives, principles, problems, and methods of educational and vocational guidance. (SMITH)

131 Observation and Teaching in High School

1 to 4 credits Each semester

To be arranged with the Director of Practice Teaching and the Dean of the School of Education.

Observation and Teaching in Home Economics

3 credits Either semester

See H.Ec. 157.

Observation and Practice in Teaching Agriculture

1 to 5 credits Each semester

See Agr. Ed. 155-156.

Beginning Methods of Teaching Vocational Agriculture

2 credits Second semester

See Agr.Ed. 152.

Advanced Methods of Teaching Vocational Agriculture

3 credits First semester

See Agr.Ed. 153.

Vocational Education

2 credits Second semester

See Agr.Ed. 151.

Auxiliary Problems in Teaching Vocational Agriculture

2 credits Second semester

See Agr.Ed. 158.

*Primarily for Graduates***203 Educational Measurements 3 credits First semester**

Recent movements seek not to eliminate opinion but to support it by scientific evidence. This course acquaints the student with the machinery used in such investigations and develops skill in its use. The use of "standardized tests" in actual classrooms to determine school efficiency is included. For graduate students and advanced undergraduates by permission. (HOLLEY)

204 School Administration 3 credits First semester

A presentation of the fundamental principles and problems of organization and administration of city, county, and state school systems. (HOLLEY)

205-206 School Surveys 3 credits Each semester

A review of recent surveys in cities, counties, and state, emphasizing the importance of measuring educational efficiency. (————)

207 Supervision of Instruction 3 credits First semester

In small cities a large and important part of the superintendent's work consists of the supervision of instruction. This course is intended to help those preparing for superintendencies to be able to improve their teachers while in service. Open to graduate students, and by permission to other advanced students of education who have had experience in teaching. (SMITH)

210 Philosophy of Education 3 credits Second semester

The aim of this course is to bring together and unify the facts and principles elaborated in various fields of Education, to think beyond the technique of school practices, to define some educational objectives, and to discover the meaning and place of Education in the social structure of which we are a part. (MESSENGER)

211-212 Curriculum Construction 3 credits First semester

A study of the curriculum from three points of view: (1) principles that should govern the selection of subject matter; (2) actual scientific studies that have been made regarding the place and value of different subjects; (3) the methodology of research involved in scientific curriculum construction. (RUSSELL, HOLLEY)

241 Character Education 2 credits First semester

A study of the influences exerted by the school in the building of character. (STAFF)

260 Scientific Methods in Education 3 credits Second semester

This is a course in methods of research, experimentation, and investigation. Useful to those who expect to do research for a thesis and those who wish to apply scientific methods of investigation in their own schools after they begin to teach. The essential principles of experimental and

statistical procedure are applied to actual investigations carried out by the class. (HOLLEY)

261-262 Educational Research Credits to be arranged Each semester

This is for students working for the master's degree. It is done under the direction of the professor in whose subject the greater part of the work is offered. (STAFF)

Seminar in Agricultural Education

Each semester

See Agr.Ed. 251-252.

Research in Agricultural Education 1 to 4 credits

Each semester

See Agr.Ed. 253-254.

ELECTRICAL ENGINEERING

Professor JOHNSON, Assistant Professor HULL

Primarily for Undergraduates

20 Elements of Radio-Telegraphy 2 credits Second semester

An elementary course dealing with the fundamentals of direct and alternating currents in their application to radio-telegraphy. Two recitations a week. Open to all students who have completed high-school physics. Elective.

22 Elementary Electrical Engineering 3 credits Second semester

Study and problems in the fundamentals of electrical engineering. Prerequisite: Phys. 11.

For Advanced Undergraduates and Graduates

131 Direct Current Machinery and Distribution 3 crs. First semester

A study of the theory, construction, and operation of direct current generators and motors, and the calculation of distribution systems for light and power. A general introductory course for civil, chemical, and mining engineering students. Prerequisite: Phys. 11-12.

132 Alternating Current Machinery and Laboratory

2 credits

Second semester

A general course in continuation of E.E. 131, treating of alternating current machinery and circuits. One recitation and one three-hour laboratory period a week. Prerequisite: E.E. 131.

133 Direct Current Machinery 3 credits

First semester

A course considering the fundamentals of electrical engineering particularly as applied to direct current machinery. Required of junior electrical and mechanical engineers. Prerequisite: Phys. 11-12.

134 Alternating Current Machinery 3 credits

Second semester

A continuation of E.E. 133, dealing with alternating current circuits and machinery. Prerequisite: E.E. 133.

- 135 Electrical Engineering Laboratory** 2 credits First semester
The use of instruments, the testing and operation of direct current machinery and apparatus. Primarily for electrical students. To accompany E.E. 133.
- 136 Electrical Engineering Laboratory** 2 credits Second semester
The use of instruments, the testing and operation of direct and alternating current machinery and apparatus. For electrical students. To accompany E.E. 134.
- 137 Electrical Engineering Laboratory** 2 credits First semester
Similar to E.E. 135, but designed for non-electrical students.
- 138 Electrical Engineering Laboratory** 2 credits Second semester
Testing and operation of alternating current machinery. Designed for non-electrical students and to accompany E.E. 134.
- 141 Electrical Engineering** 5 credits First semester
An advanced course in the theory and operating characteristics of alternating current machinery, and apparatus. Prerequisite: E.E. 134.
- 142 Electrical Engineering** 5 credits Second semester
A continuation of E.E. 141, taking up the theory of special alternating current machines and the operation of transmission systems. Prerequisite: E.E. 141.
- 143 Electrical Engineering Laboratory** 2 credits First semester
Work in the laboratory on alternators, synchronous and induction motors, transformers, meters, and polyphase systems. To accompany E.E. 141.
- 144 Electrical Engineering Laboratory** 2 credits Second semester
A continuation of E.E. 143, with intensive tests upon the equipment studied in E.E. 141 and 142.
- 145-146 Pro-Seminar** 1 credit Each semester
Discussions of typical power and industrial applications with problems and reviews of current articles in the technical press. The preparation and presentation of papers on assigned subjects. Required of seniors in Electrical Engineering.
- 147 Electrical Design Problems** 3 credits First semester
Problems and design of simple electrical machines and apparatus. Prerequisites: E.E. 13 and 134.
- 149 Electrical Circuits** 3 credits First semester
A study of the transient and steady state conditions in various electrical circuits. Elective. Prerequisites: Math. 101 and E.E. 134.
- 150 Radio Engineering** 3 credits Second semester
A theoretical course in radio-telegraphy involving a mathematical treatment of circuits and apparatus. Open only to students of Engineering and Physics with senior standing.

151 Illumination and Photometry 2 credits First semester

A general course treating of the principles of illumination and photometry; the comparison of illuminants; a study of the proper lighting of homes, public buildings, and factories. Elective. Prerequisite: a knowledge of elementary physics.

152 Thesis 3 credits Second semester

An original investigation or dissertation upon some subject in Electrical Engineering.

154 Central Stations 3 credits Second semester

Design and intensive study of central stations, their layout and equipment. Elective. Prerequisites: E.E. 132 or 134, and M.E. 122.

156 Electrical Engineering Problems 3 credits Second semester

The complete solution of various engineering projects; designs; choice of materials; comparative costs. Elective. Prerequisite: senior standing.

158 Transmission Lines 3 credits Second semester

A study of the theory and design of high tension transmission lines together with an introduction to the problem of transient phenomena in transmission lines and electrical machines. Elective.

160 Tube Testing Laboratory 1 credit Second semester

Testing characteristics of various vacuum tubes and vacuum tube circuits. Elective. Prerequisite: Senior standing.

*Primarily for Graduates***201-202 Advanced Electrical Engineering**

Credits to be arranged Each semester

Problems in transient, high-frequency, and high-voltage phenomena.

203-204 Theory of Direct Current Machinery

Credits to be arranged Each semester

Advanced investigation into theory underlying design and operation of direct current machinery.

205 Power Plant Economics Credits to be arranged First semester

Study of design, operation, and organization of power plants as related to public utilities.

241-242 Research Credits to be arranged Each semester

ENGLISH

Professors MILLER and CUSHMAN, Assistant Professors COOPE, BETH, and HERRICK, Mr. BLANCHARD, Miss WANOUS, Mr. SCHULDT, Mr. WILLIAMS*, Mr. BECKWITH, Mr. BANKS, Mr. WHITEHEAD, Miss LAMAR, Mr. PACKENHAM, Mr. CERVENY, Mr. SHERMAN, Miss YOST, Miss COLLETTE

Professors ELDRIDGE and AXTELL

A. THE UNIFORM PLACEMENT TEST IN ENGLISH.—This test, as formulated by the Inland Empire Council of Teachers of English and administered in the higher institutions of the Northwest, is given to all students entering the University for the first time, whether Freshmen or upper classmen. Freshmen notably deficient in spelling, punctuation, capitalization, sentence or paragraph structure, or giving other evidences of illiteracy, will be required, in addition to regular Eng. 1, to do other work prescribed by the Department until such deficiencies shall have been removed. Sophomores, Juniors, and Seniors are not exempt from this rule; see Rule 9, "Habitual Bad English," Part II.

B. REQUIRED COURSES.—The regular courses in the Department are divided into two groups, required and elective. The Freshman course, Eng. 1-2, is required of all first-year students unless they are excused from one or both semesters of English Composition by proficiency tests. Eng. 3 or 4, 151, 153, and 155 in composition are required for certain groups of students. Sophomores planning to take the B.A. degree are required to take the introductory course in literature known as Eng. 17-18; students working for the B.S. degree or in technical curricula should take either Eng. 17-18 or Eng. 13-14. Students who expect to ask the Department for recommendations to teach English should take Eng. 107-108 and at least some work in Public Speaking, Dramatics, or Journalism. Students in any College or School who will need recommendation for the teaching of English should consult the Head of the Department not later than the beginning of the Junior year for assistance in making out a proper program of courses. Students who desire credit for intercollegiate debate must register for such credit in Eng. 37. Students desiring credit for work on *The Argonaut* must register, if prepared for the course, in Eng. 83-84.

C. PREREQUISITES.—Eng. 1-2 is open without conditions only to students who have passed the Uniform Placement Test and is a prerequisite to all courses in the Department except Eng. 31-32 (Fundamentals of Speech), Eng. 33-34 (Reading and Interpretation), and Eng. 37 (Intercollegiate Debating); but students in Eng. 1-2 may take Eng. 35 (Extemporaneous Speaking), Eng. 36 (Parliamentary Law and Procedure), Eng. 71-72 (Fundamentals of Play Production), or Eng. 81-82 (Elements of Journalism), provided they secure permission from the Head of the Department. Eng. 17-18 is a prerequisite to all advanced courses in literature or language; students who have not had Eng. 17-18 can enter such advanced courses only by special permission of the Head of the Department. Eng. 3 or 4 is a prerequisite to Eng. 155 (Technical Writing) for students in Agriculture who make "D" in Eng. 1.

D. MAJOR CURRICULA.—Three major curricula are offered by the Department—the regular curriculum in English, a curriculum in Journalism, and a curriculum in Dramatics and Public Speaking. The outlines of the three curricula are stated in the College of Letters and Science section, Part

*On leave, 1931-32.

III of this catalog. The attention of students is called to the fact that as an adequate preparation for teaching English in the high school the number of advanced courses in English required, whether in the College of Letters and Science or in the School of Education, should be considerably more than the old legal minimum of eight credits for a minor.

E. COMPREHENSIVE EXAMINATIONS.—From 1932 on, major students in English will be required to take a comprehensive final examination on the completion of the curriculum in the Senior College. As preparation for this examination Seniors are required to take Eng. 129-130. Adequately prepared students in the School of Education may be given permission to take the comprehensive examination.

ENGLISH

Primarily for Undergraduates

1-2 English Composition 3 credits Each semester

Required of all first-year students in the Junior College (unless excused by a proficiency test), and a prerequisite for all courses in the Department except as noted above under "C". Required of all first-year students of other divisions except in the College of Agriculture, in which Eng. 1 alone is required, with the proviso that students in Agriculture making a "D" in Eng. 1 are not eligible to Eng. 155 until they have passed a supplementary course in composition. Students who fail to pass the Uniform Placement Test or who give other evidences of notable deficiency in matters of usage are required, in addition to the regular work of the first semester, to do carefully organized drill in spelling, capitalization, punctuation, grammar, and sentence structure. Students required to do such additional work must attain a satisfactory standard of efficiency in usage before receiving credit in Eng. 1. (COOPE, HERRICK, WANOUS, SCHULDT, BECKWITH, BANKS, LAMAR, PACKENHAM, SHERMAN, CERVENY, YOST, COLLETTE)

3-4 Expository Writing 2 credits Each semester

The course supplements Eng. 1-2 by further practice in the fundamentals of good composition, by more extended treatment of the principles of exposition, and by some practice in the less formal types of argumentation. Recommended for Sophomores who make "D" in Freshman English and for any students who wish further practice in writing of a non-literary character. One semester required of students in Agriculture who make only "D" in Eng. 1. Prerequisites: Eng. 1-2 (or Eng. 1 alone in the case of students in Agriculture.) (SHERMAN)

13-14 Modern Literature 3 credits Each semester

Recommended as an alternative to Eng. 17-18 for students in the B.S. curriculum, for those in the various technical curricula, or as an elective for students in any division of the University; but the course cannot be taken as a substitute for Eng. 17-18 by B.A. students or by students in the School of Education who desire to teach English. It is the chief purpose of the course to bring students into contact with the thought of

our times as expressed in nineteenth century and contemporary literature.
Prerequisite: Eng. 1-2. (COOPE)

17-18 Introduction to Literature 3 credits Each semester

Required of all Sophomores in the Junior College expecting to take the B.A. curriculum and recommended to satisfy a literature requirement or as an elective to students in the various technical curricula. The course endeavors to show what literature is and to make clear its function in life. It requires copious and carefully directed illustrative reading, so organized as to show the development of the various literary types in English literature. Prerequisite: Eng. 1-2. (CUSHMAN, COOPE, HERRICK, WANOUS, SCHULT, BECKWITH, BANKS, LAMAR)

61-62 Elementary Literary Composition 2 credits Each semester

The principles of successful composition in the short story, the literary essay, verse writing, and one-act plays. The course is designed as a prerequisite for Eng. 105-106. Open to Sophomores who have distinguished themselves in Eng. 1-2, and, with the consent of the Head of the Department, to a limited number of upperclassmen. (COOPE)

For Advanced Undergraduates and Graduates

SPECIAL NOTE.—All hundreds courses require Eng. 1-2 and 17-18 as prerequisites.

105-106 Advanced Literary Composition 2 credits Each semester

A study of the principles underlying successful composition in the short story, the literary essay, verse writing, and the drama, and considerable practice under criticism. With special permission from the Head of the Department, the course may be taken in successive years. Open only to those who have completed Freshman English and Eng. 17-18 and who have shown some aptitude in literary composition by doing good work in Eng. 61-62 or by writing for publication. (CUSHMAN)

107-108 The Teaching of English 2 credits Each semester

Bibliography. Organization of courses. Textbooks. The larger emphasis in the course will be given to the teaching of composition and literature in the high school; but it will consider also the problems of high-school teaching in Dramatics, Public Speaking, and Journalism. Primarily for Seniors and Graduates, with a good body of English courses already completed. Juniors should secure the approval of the Head of the Department before registering for the course. This course should be taken by all students who expect to ask the Department for recommendation to teach English. It counts as a course in Education, but not as credit toward the three English curricula in the College of Letters and Science. (MILLER)

113-114 The Restoration and Queen Anne Ages

2 credits Each semester

Dryden, Defoe, Swift, Steele, Addison, Pope, and the dramatists. The rise of the essay, pseudo-classicism, the heroic drama, the prose

drama of manners, and the beginnings of the novel. Prerequisites: Eng. 1-2 and 17-18. (Not given in 1932-33.) (BANKS)

115-116 Romantic Prose and Poetry 2 credits Each semester

The transition to romanticism. The romantic writers from the middle of the eighteenth century to the death of Scott. The poets will be studied the first semester, the prose writers the second. Prerequisites: Eng. 1-2 and 17-18. (Not given in 1932-33.) (COOPE)

117-118 Victorian Prose and Poetry 2 credits Each semester

A study of the greater essayists and poets of the Victorian era, their interpretation of the life and ideals of their time, their relation to one another, and their influence upon their contemporaries and successors. The prose writers will be studied the first semester, the poets the second. Prerequisites: Eng. 1-2 and 17-18. (MILLER)

119-120 American Literature 3 credits Each semester

The study of American literature both as an expression of the American spirit and as a part of the development of English literature. The development of American literature is traced from colonial times to the present. The first semester traces the development to 1870; the second semester from 1870 to the present. Prerequisites: Eng. 1-2 and 17-18. (COOPE)

121-122 The Modern Novel 2 credits Each semester

The chief emphasis is placed upon the development of the novel in the eighteenth and nineteenth centuries; but the development of fiction to 1700 is briefly sketched, and the course is concluded with some analysis of present conditions and tendencies in both English and American fiction. Prerequisites: Eng. 1-2 and 17-18. (SCHULT)

123 Contemporary English and American Drama

2 credits First semester

A study of the leading contemporary dramatists in England and in America with emphasis on Barrie, Shaw, Galsworthy, and Eugene O'Neill. Prerequisites: Eng. 1-2 and 17-18. (CUSHMAN)

124 Contemporary European Drama 2 credits Second semester

A study of the leading contemporary dramatists in Europe with emphasis on the influence of Ibsen. Prerequisites: Eng. 1-2 and 17-18. (CUSHMAN)

129-130 Outlines of English Literature 1 credit Each semester

Intended primarily for Seniors in the English curriculum. Required of majors in English preparing to take the comprehensive final examination in the Department. Prerequisites: Eng. 1-2 and 17-18. (MILLER)

131 Old English Language and Literature 3 credits First semester

Aim both linguistic and literary. The development of the language. Grammar and the reading of selected texts. The history of Old English literature, with wide readings in modern translations. Primarily for

upper classmen and graduates. Prerequisites: Eng. 1-2 and 17-18. (Not given in 1932-33.) (MILLER)

132 Chaucer and Middle English 3 credits Second semester

The development of the language and the literature to the end of the Middle English period. The study of Chaucer as poet and story teller. Primarily for upper classmen and graduates. Prerequisites: Eng. 1-2 and 17-18. (Not given in 1932-33.) (MILLER)

141 Dramatic Influences Upon Shakespeare 3 credits First semester

A study of the development of the drama to 1594. Folk dramatic material, miracle plays, moralities, interludes, and early regular drama. Special emphasis upon the work of Shakespeare's immediate predecessors and earlier contemporaries, and a comparison of this work with Shakespeare's earlier plays. Theatrical and social conditions affecting the Elizabethan drama. Prerequisites: Eng. 1-2 and 17-18. (MILLER, CUSHMAN)

142 Shakespeare 3 credits Second semester

Shakespeare's development and characteristics as dramatic artist, poet, and thinker. In at least one play a careful study is made of the Elizabethan language, its relation to earlier forms of speech, and to late modern English. Prerequisites: Eng. 1-2 and 17-18. (MILLER, CUSHMAN)

151 Engineering Reports 3 credits Either semester

Required of Juniors in the College of Engineering and the School of Mines. Emphasis is placed on popularization of technical material and on engineering reports. Some work in the handling of illustrative material in manuscripts, and a short study of the business letter. Prerequisite: Eng. 1-2; irregular students only with permission of the Head of the Department. (SCHULDT)

153 Business Writing 3 credits First semester

Required of Seniors in the School of Business Administration. Emphasis is placed on the writing of business reports and on business correspondence. Some attention is given to the popularization of technical material and to other types of writing especially valuable to business students. Prerequisite: Eng. 1-2; irregular students only with permission of the Head of the Department. (HERRICK)

155 Technical Writing 3 credits Either semester

Required of Juniors in the College of Agriculture, and in the School of Forestry and of Pre-Medical and Pre-Nursing students. Emphasis is placed on formal exposition and on the preparation of various kinds of manuscripts. Some popularization of technical material, and the more general principles of business letter writing. Prerequisite: Eng. 1-2; or if the divisional requirement is only one semester of Freshman English, a grade of "C" or above. Irregular students must have the permission of the Head of the Department. (SCHULDT, HERRICK)

157-158 Classical Literature in English 2 credits Each semester

A study through English translations of the classical masters of poetry and prose, such as Homer, Euripides, Herodotus, Plutarch, Vergil, Horace, Cicero, Seneca, and Tacitus. Lectures on their influence on modern thought and style. Not counted toward a major or a minor in English. Prerequisites: Eng. 1-2 and 17-18. (AXTELL)

175-176 Readings in European Literature 2 credits Each semester

Selections from medieval and modern literature as an introduction to the comparative study of literary personalities and tendencies among various European peoples. Not counted toward a major or a minor in English. Prerequisites: Eng. 1-2 and 17-18. (ELDRIDGE)

*Primarily for Graduates***201 Folk Literature** 3 credits First semester

The origins of literature. Choric song and dance, the ballad, children's singing games, cowboy songs, and other folk literary forms, and their relation to the development of individual artistic literature. Primarily for Seniors and Graduates. Open to Juniors only by special permission. (Not given in 1932-33.) (MILLER)

202 English Literary Criticism 3 credits Second semester

The development of literary theory from Ascham to Pater. The relation of criticism to the development of literature. Present tendencies in criticism. Primarily for Seniors and Graduates. Open to Juniors only by special permission. (Not given in 1932-33.) (MILLER)

203-204 Special Problems in the Development of (a) Property, (b) Drama, (c) Prose Fiction, or (d) The Essay 3 credits Each semester

Only one or two of these literary types will be considered in any one year. Primarily for Seniors and Graduates. Open to Juniors only by special permission. (MILLER, COOPE)

205 Thesis Writing 2 credits First semester

A study of the literature of the subject and practice in the elements of thesis writing. (Not given in 1932-33.) (MILLER)

207-208 Special Problems in Methods of Teaching English

Credits to be arranged Each semester

A course in special research intended primarily for experienced teachers doing graduate work in the Department. Open to properly qualified graduate students. (MILLER)

209-210 The Foreign Backgrounds of English Literature

3 credits Each semester

A study of the influence of foreign literatures on the chief writers in English, with special emphasis on establishing the Oriental, the Classic, the Medieval, and the Renaissance points of view. Primarily for Seniors and Graduates. Open to Juniors only by special permission. (CUSHMAN)

- 211-212 Research** Credits to be arranged Each semester
 Research in preparation for graduate thesis and conferences on results. In addition, each candidate for a graduate degree will meet with other graduates for special investigation of some one topic. Open to properly qualified graduate students. (MILLER)

DRAMATICS AND PUBLIC SPEAKING

SPECIAL NOTE.—Eng. 1-2 is prerequisite to all courses in Dramatics and Public Speaking except Eng. 31-32, 33-34 and 37; but by special permission of the Head of the Department students registered in Eng. 1-2 may take Eng. 35, 36, or 71-72. For all hundreds courses in Dramatics and Public Speaking, Eng. 17-18 is a prerequisite.

Primarily for Undergraduates

- 31-32 Fundamentals of Speech** 2 credits Each semester
 An introduction to the thought, voice, and action of public speaking. Beginning course. Sections limited to fifteen students each. No prerequisite. (WHITEHEAD, COLLETTE)
- 33-34 Reading and Interpretation** 2 credits Each semester
 Analysis and presentation of monologues, stories, poems, plays, etc. No prerequisite. (BLANCHARD)
- 35 Extemporaneous Speaking** 2 credits First semester
 The application of the extempore method to public speaking. One section. Open to those who have had Eng. 31-32 or equivalent. Open to Freshmen by special permission. (WHITEHEAD)
- 36 Parliamentary Law and Procedure** 2 credits Second semester
 A study of parliamentary law and procedure through organization of the class as a parliamentary body and practice of speech under parliamentary conditions. Open to Freshmen by special permission. (WHITEHEAD)
- 37 Intercollegiate Debating** 1 credit Either semester
 The questions for debate are studied and briefed, and frequent debate practice is held. Students are selected on a competitive basis and organized into a regular class. University debaters are chosen primarily from this group. Open to Freshmen by special permission. (WHITEHEAD)
- 71-72 Fundamentals of Play Production** 3 credits Each semester
 A study of the principles of acting, staging, and directing of plays, together with practical application of these principles in laboratory production of one-act plays. No public appearance is guaranteed members of the class. Freshmen, to register, must secure special permission from the Head of the Department. If registration is too large, trials will be given to determine those best fitted for the work. One lecture hour and two two-hour laboratory periods each week. (BLANCHARD)

For Advanced Undergraduates and Graduates

- 106 Advanced Literary Composition** 2 credits Second semester
 For the description of this course, see the statement of Eng. 105-106.

123-124 Contemporary Drama 2 credits Each semester

For a description of these courses see the statement of Eng. 123..

141-142 Shakespeare and Dramatic Influences on Shakespeare

3 credits

First semester

For the descriptions of these courses, see the statements of Eng. 141 and 142.

159 Voice Production 2 credits

First semester

The physical factor in voice production will be considered in detail, with emphasis on the proper use of the resonating chambers; there will be a study of tongue placement for all the phonetic sounds; an effort will be made to improve tone quality; some emphasis will be given to diction; class practice will be part of the course. Prerequisites: Eng. 1-2, 17-18, 33-34 or 35-36 or 37. (WHITEHEAD)

160 Speech Composition 2 credits

Second semester

Original preparation of the eight various types of addresses; models will be studied; stress will be laid on various attention devices; some delivery of speeches in class. Prerequisites: Eng. 1-2, 17-18, 35-36 or 37. (WHITEHEAD)

163-164 Advanced Speaking 2 credits

Both semesters

Origins of speech; development of speech in race and individual; personality in speech; psychology of persuasion and attention. Prerequisites: Eng. 1-2, 17-18, 33-34 or 35-36 or 37. (WHITEHEAD)

165-166 Argumentation and Debate 2 credits

Each semester

Practical logic, argumentation, analysis, briefing, and presentation of debates. Open to those with Eng. 35, 36, or equivalent, and with Eng. 1-2 and 17-18. (WHITEHEAD)

167-168 Advanced Interpretation 2 credits

Each semester

First semester largely the interpretation of contemporary drama; second semester, of Shakespearean plays. Open to those with Eng. 33-34, or equivalent, and with Eng. 1-2 and 17-18. With the recommendation of the instructor, this course may be taken two years in succession. (Not given in 1932-33.) (WANOUS)

171-172 Advanced Play Production 3 credits

Each semester

A continuation of the staging and acting of plays, with special emphasis on the interpretation of full-length plays. Open to properly qualified students from Eng. 71-72 or to those with equivalent training. With the recommendation of the instructor this course may be taken two years in succession. Prerequisites: Eng. 1-2 and 17-18. (BLANCHARD)

JOURNALISM

SPECIAL NOTE.—Eng. 1-2 is a prerequisite to all Journalism courses, except that by special permission of the Head of the Department students may take Eng. 81-82 with Eng. 1-2. For all hundreds courses in Journalism, Eng. 17-18 is a prerequisite.

*Primarily for Undergraduates***81-82 Elements of Journalism** 2 credits Each semester

An introduction to the principles of news writing. Study of newspaper organization and methods. Comparative study of metropolitan newspapers. All written work is done on the typewriter. Freshmen may not enroll except by special permission of the Head of the Department. (BETH)

83-84 College Journalism 1 credit Each semester

One credit each semester will be given for *Argonaut* work done under the following conditions: the student must be the editor or managing editor of *The Argonaut* or an upper classman majoring in Journalism; he must register for the credit. (BETH)

*For Advanced Undergraduates and Graduates***181-182 Reporting** 4 credits Each semester

Practice in news writing, covering textbook assignments and events of campus and town. Two recitations and two three-hour laboratory periods weekly. Prerequisite: Eng. 81-82 or equivalent. (BETH)

183 Editorial Writing 3 credits First semester

Discussion of current events with instruction and practice in the writing of editorials. Prerequisite: Eng. 81-82. (BETH)

184 News Editing 2 credits Second semester

Practice in copy reading and headline writing. Problems of newspaper desk work. Proof reading. Make-up. Two two-hour laboratory periods weekly, with some outside preparation. Prerequisite: Eng. 181-182 or to be taken with Eng. 182. (BETH)

185 History of Journalism 2 credits First semester

A history of American journalism, with special attention to present tendencies. Prerequisite: Eng. 81-82. (Not given in 1932-33.) (BETH)

186 Special Feature Articles 3 credits Second semester

The writing of special feature articles on topics of current interest, preferably taken from a field of the student's specialization. Prerequisite: Eng. 181-182, or to be taken with Eng. 182. (Not given in 1932-33.) (BETH)

191 Ethics of Journalism 2 credits First semester

A study of professional standards in journalism, with the influences affecting them. The social responsibility of the newspaper. Prerequisite: Eng. 81-82. (Not given in 1932-33.) (BETH)

192 Law of the Press 2 credits Second semester

Chiefly a study of the law of libel. Consideration is given also to such topics as the right of privacy, contempt of court, freedom of the press, copyright, and postal regulations. Prerequisite: Eng. 81-82. (BETH)

- 197 Community Newspaper** 2 credits First semester
Problems of the small-town newspaper. Prerequisite: Eng. 81-82.
(BETH)
- 198 High School Journalism** 2 credits Second semester
Problems in directing high school newspapers and magazines. Prerequisite: Eng. 81-82 or consent of the Head of the Department. (Not given in 1932-33.) (BETH)

ENTOMOLOGY

Professor WAKELAND, Assistant Professor SHULL

For Advanced Undergraduates and Graduates

- 101 General Entomology** 3 credits First semester
Study of structure, development, classification, life history and ecology of insects. Two lectures and one laboratory period a week. Prerequisite: Zool. 1. (SHULL)
- 102 Forest Entomology** 3 credits Second semester
Study of life-history and habits of important insects affecting forests, forest products, and ornamentals. Two lectures and one laboratory period a week. Prerequisite: Bot. 2. (SHULL)
- 103 External Insect Anatomy** 2 credits First semester
Study of insect characters used in classification. Two laboratory periods a week. Prerequisite: Ent. 101 or 102. (SHULL)
- 104 Economic Entomology** 3 credits Second semester
Study of the habits and effects of insects and of the principles of insect control. Two lectures and one laboratory period a week. Prerequisite: Ent. 101. (WAKELAND)
- 105-106 Systematic Entomology** 2 or 3 credits Each semester
Study of the classification of insects. Two or three laboratory periods a week. Prerequisite: Ent. 103. (SHULL)
- 107-108 Special Problems** 3 to 5 credits Each semester
(WAKELAND, SHULL)
- 110 Entomological Technique** 2 credits Second semester
Museum methods of insect preservation, preparation of demonstration materials, life-history study and technique. Two laboratory periods a week. Prerequisite: Ent. 101. (SHULL)
- 111 Pro-Seminar** 1 credit Each semester
Prerequisite: Ent. 104 or 106. (WAKELAND, SHULL)
- Primarily for Graduates*
- 209-210 Research** Credits as arranged Each semester
Prerequisite: Ent. 104 or 106. (WAKELAND, SHULL)
- 211-212 Seminar** 1 credit Each semester
Prerequisite: Ent. 104 or 106. (WAKELAND, SHULL)

EUROPEAN HISTORY AND CIVILIZATION

Professors CHURCH and RETHERFORD

Professor AXTELL, Associate Professor HOWE, Mr. VAZQUEZ

All courses designated "for advanced undergraduates and graduates" are open to any student of Senior College standing unless otherwise specified.

To students from outside the Senior Colleges are open:

- (a) The courses primarily for undergraduates;
- (b) Such courses among those for advanced undergraduates as have no other prerequisites than Junior or Senior standing.

*Primarily for Undergraduates***1-2 History of Civilization** 3 credits Each semester

A survey course in the history of the life and thought of the past, together with its expression in art and letters. It aims to show their relationships with each other and with politics. (CHURCH)

13-14 Classical Civilization 3 credits Each semester

The course deals with the Grecian and Roman governments, customs, art, literature, and institutions and their contribution to the modern world. It is carried on through lectures by instructors, and reports, papers, and written exercises by members of the class. (AXTELL)

*For Advanced Undergraduates and Graduates***103 Renaissance and Reformation** 3 credits First semester

The development of literature and art, the revival of science, the age of discovery, the undermining of the church by the new critical spirit. Prerequisite: Hist. 1-2 or 13-14. (CHURCH)

104 Renaissance and Reformation 3 credits Second semester

The revolution in religious and political thought which accompanied the attack on the church in the sixteenth century. Prerequisite: Hist. 103. (CHURCH)

105-106 Recent Times 3 credits Each semester

A study of the European nations from about 1870, with special reference to the Near and Far Eastern questions, and to colonial expansion in Asia and Africa. With these are discussed European problems that also contributed to the great War. Prerequisite: Hist. 1-2, or 21-22. (CHURCH)

107-108 English History 3 credits Each semester

Evolution of the Anglo-Saxon element in American civilization. The political, economic, and cultural factors are correlated with special attention to the needs of English majors. (RETFERFORD)

113-114 Economic History 3 credits Each semester

A methodical study of the evolution in modern times of the economic factors in History, carefully correlated with political events which must be estimated in relation to them. The emphasis is distributed among Europe, England, and the United States. (RETFERFORD)

- 117-118 The Absolute Monarchy** 3 credits Each semester
 Conflict of the absolute monarchy, victorious over the feudal system, with democratic principles which culminate in the French Revolution and Napoleon. Traces the development of the modern state-system and of international relations through the break-up of the Concert of Powers. (CHURCH)
- 131 Historical Method** 2 credits First semester
 A course preparatory to historical research and to the teaching of History. The nature of sources and authorities, of internal and external criticism, of the auxiliary sciences, of bibliographies and other repositories of historical material. (CHURCH)
- 132 Pro-Seminar** 2 credits Second semester
 Continuation of Hist. 131. Study of simple selections of source material with the object of discovering their content and meaning, and using them in practical exercises in the outlining and presentation of historical topics. (CHURCH)
- 134 Teaching of History** 2 credits Second semester
 Designed for students expecting to teach History in the secondary schools. Methods of approach and the critical examination of textbooks. (RETFERD)
- 137-138 English Constitutional History** 2 credits Each semester
 English history, with special reference to the parliamentary system of government from Magna Carta to the modern cabinet. (RETFERD)
- 141-142 French Civilization** 2 credits Each semester
 French history in outline, with particular emphasis upon the cultural elements in art, literature, science, and philosophy, and their influence upon modern civilization. (HOWE)
- 151-152 German Civilization** 2 credits Each semester
 German history, with emphasis upon the relation of German culture to that of Europe in general and England in particular. (———)
- 161-162 Spanish Civilization** 2 credits Each semester
 A brief study of the various civilizations which went to the building-up of Spanish culture; their fusion in Spain; and their spread throughout the world, particularly America. (VAZQUEZ)

Primarily for Graduates

- 201-202 Seminar** Credits arranged Each semester
 Subject for 1932-33 is "Renaissance and Aufklärung." (CHURCH)
- 203-204 Research** 3 to 5 credits Each semester
 Investigation of topics leading to the preparation of a thesis. Weekly conferences with the instructor in charge, in which the student is directed in reading, use of material, and writing of reports. (CHURCH, RETFERD)

FORESTRY

Professors MILLER and HUBERT, Associate Professor JAHN, Assistant
Professor SOWDER, Mr. SPENCE, Mr. OTTER

Primarily for Undergraduates

- 1 Elements of Forestry** 2 credits First semester
A general course dealing with forestry in its relation to the everyday life of the people; forest movement in the United States; forest influences; conservation with special reference to forest resources. Two lectures a week. (MILLER)
- 10 Dendrology** 4 credits Second semester
Summer and winter identification, classification, characteristics, and distribution of the principal commercial species of trees of temperate North America, including some exotics. Construction and use of keys. Two lectures or recitations and two laboratory or field periods a week. Text: Sargent's Manual of the Trees of North America. Prerequisite: Bot. 1-2. (SPENCE)
- 16 Our Trees and How to Know Them** 2 credits Second semester
A course for non-forestry students. Identification and economic uses of trees, with special reference to the trees of Idaho. (OTTER)
- 21 Forest Resources of the World** 2 credits First semester
Geographic distribution and character of the forests, and the forest situation in the different timber-producing countries. Two lectures a week. (OTTER)
- 23 Foundations of Silviculture** 3 credits First semester
Effects of the environment upon tree growth and the reaction of the forest vegetation upon the environment. Forest types, succession, the stand, and the tree as an individual are considered. Two lectures and one field or laboratory period a week. Text: Toumey's Foundations of Silviculture. Prerequisites: Bot. 1-2 and For. 10. (OTTER)
- 26 Seeding and Planting** 2 credits Second semester
A study of the operations pertaining to the artificial regeneration of forests from collection of seed to planting the trees. One lecture and one laboratory period a week. Text: Toumey's Seeding and Planting in the Practice of Forestry. Prerequisite: For. 23. (OTTER)
- 28 Farm Forestry** 2 credits Second semester
Planting and care of farm woodlots, windbreaks, and ornamental trees; seasoning, preservation, use, and marketing of farm woodlot products; principles and practice of log scaling and timber cruising as applied to farm woodlots. Two lectures a week. Open to students in other departments. (SOWDER)

54 Recreational Uses of the Forest 2 credits Second semester

Recreation in the national forests, national parks, and state parks with a consideration of fish and game in relation to recreation. Two lectures a week. Open to students in other departments. (SPENCE)

61 Fire Protection 2 credits Second semester

Prevention, detection and control of forest fires; brush disposal; fire laws, and their enforcement; trail construction. Two lectures a week. (OTTER)

*For Advanced Undergraduates and Graduates***123 Practice of Silviculture** 3 credits First semester

Methods of natural reproduction of forests with a consideration of their application in the different forest regions of the United States. Two lectures and one laboratory period a week. Text: Hawley's Practice of Silviculture. Prerequisite: For. 23. (OTTER)

131 Wood Technology 4 credits First semester

Identification, structural, physical, mechanical properties and uses of our important economic woods. Factors affecting mechanical properties and methods of timber testing. Reports on collateral reading. Two lectures or recitations and two laboratory periods a week. Text: Record's Economic Woods of the U.S. Prerequisites: For. 10 and Phys. 1. (SPENCE)

132 Timber Physics 2 credits Second semester

Mechanical properties of wood and factors affecting them; physical properties of economic woods of the United States; stresses resisted by structural timbers; methods of timber testing. Two recitations a week. Text: Record's Mechanical Properties of Wood. Prerequisites: Phys. 1 or 2; For. 10 and 131.

133 Forest Products and Their Preservation 3 credits First semester

Introduction to the chemistry of wood. Manufacture of wood pulp and products made from it. A study of the wood distillation, veneer, plywood, tanning, dyeing, and naval stores industries. The production of rubber, cork, gums, and other wood products. Principles and methods of protecting wood against decay, fire, and insects. Two lectures and one laboratory period a week. Prerequisites: Bot. 1-2; Chem. 1-2; For. 131 and 164. (JAHN)

136 Seasoning of Wood 2 credits Second semester

The principles of the movement of moisture in wood. Methods, equipment and costs of air-drying and kiln-drying of lumber. One class period and one laboratory, field, or quiz period each week. Trips to nearby seasoning plants. Prerequisites: Phys. 3-4; For. 131 and 133. Text: Koehler and Thelen, Kiln Drying of Lumber. (OTTER)

140 Forest Economics 2 credits Second semester

The economic value and benefits of forests; the relation of the forest problem to other industries of the country; the forest resources of the

United States; and the requirements of our nation for forest products.

Two lectures or recitations a week. (MILLER)

141 Forest History and Policy 3 credits First semester

History of forestry in foreign countries; development of land policies of the United States; state and federal legislation, forestry organization, policy, and taxation. Industrial forestry developments. Reports. Three lectures or recitations a week. Text: Ise's The United States Forest Policy. (SPENCE)

142 Forest Administration 2 credits Second semester

Methods of handling personnel, administration of sales, special uses, grazing. Work plans, activity priorities, resource plans, standards, inspection methods, job-rating schemes and man-rating schemes used in forestry. Two lectures a week with occasional reports on reading assignments and problems.

151 Range Industry 3 credits First semester

Grazing history and policy, pasture and range revegetation, improvement and management of farm pastures, poisonous plants, improvements, economics of grazing. Open to non-forestry students. Three lectures with reading assignments, problems and reports. Text: Sampson's Range and Pasture Management. (SPENCE)

152 Range Management 3 credits Second semester

Range reconnaissance, inspection, research, management plans, palatability, classification and types of native forage plants. Problems and reports. Two lectures and one laboratory. Text: Sampson's Range Pasture Management and Native Forage Plants. Prerequisites: For. 151 and Bot. 53. (SPENCE)

153-154 Forest Mensuration 3 credits Each semester

First semester; principles and practice of log scaling and surveying practice as applied to forest conditions. Second semester: principles and practice of timber cruising, including volume-table construction, graphical analysis, form and sample plot studies. Two lectures and one laboratory period a week. Text: Chapman's Forest Mensuration. Prerequisites: C.E. 3 and 4. (SOWDER)

155-156 Forest Management 4 credits First semester

3 credits Second semester

A course dealing with the most approved methods of forest administration, regulation, working plans, and practices of the various states and the federal government. Prerequisites: For. 153-154. (MILLER)

157 Forest Mensuration 3 credits First semester

Principles and practice of growth studies; construction and use of yield tables; coordination of growth studies with forest surveys. Two lectures and one laboratory period a week. Text: Chapman's Forest Mensuration. Prerequisites: For. 153-154. (SOWDER)

164 Forestry Pathology 3 credits First semester

History, principles, and practices of forest pathology. Principal tree diseases, their cause and control. Wood pathology, decay and staining of lumber, timber and other wood products; lumber-yard sanitation; cause and control of decay in buildings. Field work on the identification of diseases. Two lectures and one laboratory period a week. Prerequisites: For. 131 and Bot. 1-2. (HUBERT)

171 Logging 3 credits First semester

Logging operation organization; methods of logging and transportation used in various regions, with special reference to sustained forest growth, costs of operation, stumpage appraisals, and timber-sale contracts. Three lectures or recitations with occasional field trips and reports. Text: Bryant's Logging. (SOWDER)

172 Lumber Manufacture and Distribution 3 credits Second semester

Important lumber statistics; equipment and operation of sawmills; close utilization, distribution, and transportation of forest products; markets and lumber prices. Three lectures or recitations and two or three field trips to nearby mills, and reports. Text: Bryant's Lumber. (SOWDER)

180 Thesis 2 credits First and Second semester

Each student before graduation must prepare a thesis on some phase of forestry work. This usually covers some practical experimental work which the student has performed either in the field or in the laboratory. A thesis outline or work plan must be approved and work on the thesis started not later than the first semester of the senior year and preferably the first semester of the junior year. (STAFF)

181-182 Pro-Seminar 2 credits Each semester

Conferences on forestry matters, more particularly important phases of forest legislation and the trend of forestry developments. Open only to advanced or graduate students. Hours to be arranged. (MILLER, SOWDER, SPENCE, OTTER)

191 Forest Research Methods 2 credits Second semester

Choosing, outlining, planning, and completing for publication a forest research project. Includes history of forest research; existing agencies, selection of problem, its variables; statistical methods; method of checking; preparation of tables, and illustrations; preparation and reviewing of the manuscript. For advanced undergraduates. Prerequisites: Math. 1; Chem. 1; For. 23, 131, and 153. (HUBERT)

*Primarily for Graduates***210 Dendrology** 2 credits Second semester

Dendrological problems and research. One lecture or seminar and one laboratory a week. Prerequisites: For. 10 and 191. (SPENCE)

- 231 Wood Technology** 2 credits First semester
Problems, reading, and reports. Microtechnique of woods; staining; sectioning; and study methods used. Photomicrography of wood sections. One seminar or lecture and one laboratory a week. Prerequisites: For. 131 and 191. (SPENCE)
- 255 Forest Management** 2 credits First semester
Special field problems in forest management. (MILLER)
- 261-262 Wood Chemistry** 1 credit Each semester
Laboratory work in wood analysis together with directed reading in polysaccharide and wood chemistry. Prerequisites: Chem. 51-52; Chem. 101-102; For. 131. (JAHN)
- 281-282 Research in Forestry** Credits to be arranged Each semester
Facilities and instruction are offered in graduate research work on a variety of forestry subjects, covering both field and laboratory problems. Instruction is given in research methods, preparation of the working plan, methods of presentation, writing, and revision of the manuscript. Required of candidates seeking the master's degree in forestry. Credits are based on the type of problem and the amount of work involved. (STAFF)
- 283-284 Forest Research Seminar** Credits to be arranged Each semester
The review of recent literature on particular phases of forest research correlated with the graduate thesis problem. Individual problems of technique; or research into minor problems relating to the major thesis problem. Credits based on the type of problem and the amount of work involved. For Graduate students only. (STAFF)
- 291 Forest Research Methods** 2 credits First semester
A course following the same general outline as Forestry 191 but more intensive and of a more advanced nature. Special assignments on selected topics. Open only to Graduate students. (HUBERT)

French

(See under Modern Languages)

GEOLOGY

Professors FINCH, LANEY, ANDERSON, and LIVINGSTON, Mr. TULLIS

Primarily for Undergraduates

- 1 Introductory Geology** 4 credits Either semester
An informational course for the non-technical student, and designed to be a foundation for additional geological study by the technical student. Three hours of lecture and recitation, and one laboratory period each week. (LANEY)

2 Historical and Physical Geology 4 credits Second semester

A course planned to articulate with the introductory course, but in no way to duplicate it. The two give the student a thorough understanding of the fundamental principles and facts of general geology. Three hours of lecture, recitation, and readings, and one laboratory period each week. Prerequisite: Geol. 1 or equivalent. (LANEY)

11 General Geography 3 credits First semester

A study of the character and distribution of the elements of natural environment, together with the human adjustments made to these elements. An introduction to the study of geographic regions of the world. (LIVINGSTON)

12 Economic Geography 3 credits Second semester

The relationship between geographical environment, climate, etc., and human activity, industry, and commerce. The geographical distribution of the natural resources of the world and the effect of this distribution upon national growth and trade activities. (LIVINGSTON)

For Advanced Undergraduates and Graduates

101 Advanced Physiography 3 credits First semester

The nature and results of gradation, agents of diastrophism, and vulcanism; special problems of geologic processes; interpretation of land forms and of sedimentary and metamorphic structures. Prerequisite: Geol. 1-2. (LIVINGSTON)

102 Advanced Stratigraphy 3 credits Second semester

An advanced course based chiefly on the physical history of the North American continent, in which particular emphasis is placed on the character and distribution of the rocks and the conditions attending their formation. Prerequisite: Geol. 101. (LIVINGSTON)

103 General Mineralogy 3 credits First semester

A study of crystal systems and classes with emphasis on their use in mineral identification and of the more important physical properties of the common minerals, especially those characters useful in field recognition. One lecture and two three-hour laboratory periods a week. Prerequisites: Chem. 2 and Geol. 2. (ANDERSON)

104 General Mineralogy 3 credits Second semester

Determinative mineralogy with lectures and recitations upon the geologic occurrence, genesis, association, and alteration products of minerals. One lecture and two three-hour laboratory periods a week. Prerequisite: Geol. 103. (ANDERSON)

105 History of Science 3 credits Either semester

A brief review of events leading up to the initiation of the scientific age in the 17th century, followed by a history of the individual sciences to the discovery of the accepted natural laws of today, also the effect of these discoveries upon civilization and thought. Prerequisites: Junior standing and 4 credits of laboratory science. (LIVINGSTON)

108 Rock Minerals and Rocks 2 credits Second semester

A study of the rock-forming minerals and common rocks with emphasis upon identification from megascopic characters. Includes a study of the origin, structure, metamorphism, and the decomposition of rocks. One lecture and one three-hour laboratory period a week. Prerequisite: Geol. 2. (LIVINGSTON)

111 Introductory Paleontology 3 credits First semester

Lectures and laboratory work on the geological relationships, origin, and development of the more important types of animals and plants; the distribution of the various organisms throughout geologic time; and the value of fossils in stratigraphic geology. Two lectures and one laboratory period a week. Prerequisite: Geol. 2. (LANEY)

116 Geography and Geology of Idaho 3 credits Second semester

Lectures, readings, slides, and maps dealing with physical, human, and economic geography and the stratigraphic, structural, igneous, and pssysiographic geology and mineral resources of the state. Prerequisite: Geol. 1-2. (LIVINGSTON)

123 Mineral Resources 3 credits First semester

A technical study of the mineral resources of the world, dealing with the character, distribution, and reserves of the important economic minerals, including discussions of their use and importance in our economic life; the costs of mining, transportation, smelting, and the labor necessary for the various processes. Prerequisite: Geol. 1. (LANEY)

130 Geological Field Methods 1 credit Second semester

Lectures and assigned readings on methods of geological field-work, note taking, and making of geological maps and reports, in preparation for the practical application of these principles in actual field-work. Prerequisites: Geol. 2 and C.E. 3 and 4. (LANEY)

131 Geological Field Methods 2 credits First semester

Three weeks' instruction, between August 25 and September 15 inclusive, upon the theory and use of instruments in topographic, geologic, and mining surveys, one credit; one three-hour laboratory period throughout the semester, preparing maps from field notes, reviewing literature upon field problems and writing reports, one credit. Prerequisite: Geol. 130. (LANEY)

141-142 Current Geologic Literature 1 credit Each semester

Reviews, reports, and critical study of current geological literature. Prerequisite: Geol. 2. (LIVINGSTON)

151 Geology of Non-Metalliferous Deposits

3 credits

First semester

The nature, mode of occurrence, distribution, origin, and uses of the more important non-metallic mineral deposits, exclusive of petroleum. Prerequisite: Geol. 104. (ANDERSON)

152 Geology of Ore Deposits 4 credits Second semester

The origin, occurrence, and distribution of metallic mineral deposits. Laboratory practice in the interpretation of ore textures and in determination of mineral paragenesis, stressing especially the criteria used in classifying deposits. Prerequisites: Geol. 104 and Chem. 3. (FINCH, LANEY, ANDERSON)

153 Petroleum Geology 3 credits First semester

Stratigraphy and structure with reference to occurrences of petroleum origin, migration, and accumulation; geology of the world's greatest oil fields; field methods used to locate oil and gas; view of the outstanding economic aspects of the industry. Prerequisites: Geol. 102 and Phys. 2. (FINCH, LIVINGSTON)

155 Mineragraphy 2 credits First semester

Application of the reflecting microscope to problems of geology, mineralogy, and metallurgy. Methods of preparation of polished sections of opaque minerals and metallurgical products, their identification and the interpretation of their structure under the microscope. Two three-hour laboratory periods a week. Prerequisites: Geol. 104 and Chem. 3. (LANEY)

161 Structural Geology 3 credits First semester

A discussion of rock structures such as fracture, cleavage, joints, faults, folds, etc., the mechanics of their origin, their interpretation and their application to the solution of other geologic problems. A review of the principles and theories of diastrophism. Prerequisite: Geol. 102 or 104. (ANDERSON)

162 Sedimentation 3 credits Second semester

A course dealing with the principles of sedimentation. Of special value to students of stratigraphy and to those who contemplate entering the field of petroleum geology. Two lectures and one three-hour laboratory period a week. Prerequisites: Geol. 102 and 163. (ANDERSON)

163 Optical Mineralogy 3 credits First semester

A study of optics as applied to the determination of minerals by the polarizing microscope and the identification of minerals in thin section and in fragments. One lecture and two three-hour laboratory periods a week. Prerequisites: Geol. 104 and Phys. 2. (ANDERSON)

164 Petrography 3 credits Second semester

A study of rock-forming minerals and rocks with the petrographic microscope. Emphasis placed on the classification of rocks, especially the igneous and metamorphic, from mineralogical composition. One lecture and two three-hour laboratory periods a week. Prerequisite: Geol. 163. (ANDERSON)

190 Principles of Geophysics 3 credits Second semester

A study of principles of geophysical prospecting. Magnetic methods; electrical methods; seismic methods; torsion balance prospecting; geo-

thermal methods; methods dependent upon radio-activity of matter; atomic theory. (TULLIS)

193-194 Geologic Thesis 1 credit Each semester

Required of all students choosing the geology option in the School of Mines. As this course will require field work in most cases, the student should consult instructors in the month of June preceding. (LANEY, ANDERSON, LIVINGSTON)

Primarily for Graduates

225-226 Geologic Research in Specific Fields

Credits to be arranged Each semester

This course is designed as advanced work for students taking the geology option and for graduate students in geological sciences. Fields of research may be: (a) Geologic processes; (b) Geography; (c) Mineral deposits; (d) Petrology; (e) Mineralogy; (f) Soil minerals and soils (in cooperation with the College of Agriculture); (g) Economics of the mineral industry (in cooperation with the School of Business Administration). (FINCH, LANEY, ANDERSON, LIVINGSTON)

German

(See under Modern Languages)

Greek

(See under Classical Languages)

History

(See under American History and European History)

HOME ECONOMICS

Professor JENSEN, Associate Professors LEWIS and MCFARLAND, Assistant

Professor INGALLS, Miss FEATHERSTONE, Mrs. BUCHANAN,

Miss THORNER, Mrs. SOWDER

Acting Professor IHRIG

FOODS

Primarily for Undergraduates

4 Selection and Preparation of Foods 3 credits Second semester

Foods, their classification, composition and value in diet. Chemistry of cookery. Kitchens and their equipment. One lecture and two three-hour laboratory periods a week. Prerequisite: Chem. 1-2. (LEWIS)

For Advanced Undergraduates and Graduates

101 Selection and Preparation of Foods 3 credits First semester

Food preservation. Home projects. Seasonal problems. Nutritive values. One lecture and two three-hour laboratory periods a week. Prerequisites: Chem. 1-2, and H.Ec. 4. (LEWIS)

102 Marketing and Serving 3 credits Second semester

Problems in marketing and meal service. Nutritive values. Entertaining, invalid cookery. School lunches. One lecture and two three-hour laboratory periods a week. Prerequisites: Chem. 54 and H.Ec. 101. (LEWIS)

103-104 Dietetics 3 credits Each semester

Processes concerned in growth, maintenance and repair; diets, computation of caloric values. Infant feeding, special diets in disease. Two one-hour periods and one three-hour period a week. Prerequisites: Chem. 54; H.Ec. 102; Zool. 6; and Bact. 51. (JENSEN)

HOME ECONOMICS RESEARCH

Primarily for Graduates

201-202 Research

(JENSEN)

HUMANICS

Primarily for Undergraduates

41 Problems in the Modern Home 2 credits First semester

Spending the income; the house furnishings; management problems; the food problem—cost, selection, relation to health; clothing—cost, selection, care; the child—establishment of desirable habits and attitudes. Two one-hour periods a week. Planned for students not majoring in Home Economics. (JENSEN)

For Advanced Undergraduates and Graduates

135 Child Development 2 credits First semester

Problems of infancy, physical care for normal growth and development, recreation, prevention of defects, behavior difficulties, and remedial procedures. Two lectures a week. Prerequisite: H.Ec. 35 and junior standing. (JENSEN)

136 The Family 2 credits Second semester

History of the family as a social and educational institution. Two lectures a week. Prerequisites: 6 credits Social Science and H.Ec. 135. (JENSEN)

TEXTILES AND CLOTHING

Primarily for Undergraduates

23 Textiles 2 credits First semester

History and development of textiles with viewpoint of consumer. One lecture and one two-hour laboratory period a week. (INGALLS)

24 Elementary Clothing 3 credits Second semester

Fundamentals of hand and machine sewing; making of simple garments; renovation and repair of clothing. Application of the principles of line and color as used in clothing. One lecture and two three-hour laboratory periods a week. Prerequisite: H.Ec. 23. (INGALLS)

65 Costume Design 2 credits First semester

A study of the application of art principles to the practical demands of the costume for various types of people, figures and occasions. Two two-hour periods a week with outside work. Prerequisite: H.Ec. 12. (FEATHERSTONE)

*For Advanced Undergraduates and Graduates***105 Advanced Clothing** 2 credits First semester

Garments designed from flat patterns. Emphasis on fitting and designing of garments. Two three-hour periods a week. Prerequisites: H.Ec. 24 and 65. (INGALLS)

106 Dressmaking and Millinery 2 credits Second semester

Designing and draping of more difficult garments. Types of decoration. Designing of felt and fabric hats. Hat renovation problems. Two three-hour periods a week. Prerequisite: H.Ec. 105. (INGALLS)

143 Historic Costume 2 credits First semester

A comprehensive study of historic and national costume to develop knowledge and appreciation essential for designing of clothing and costuming for pageants and plays. Two three-hour periods a week. Prerequisite: H.Ec. 65. (FEATHERSTONE)

ART

*Primarily for Undergraduates***11n-12 Art Structure and Design** 2 credits Each semester

Study of principles of line, dark and light and color. Applied design. Two three-hour periods a week. Credit for H.Ec. 11 will not be given until after completion of H.Ec. 12. (FEATHERSTONE)

THE HOUSE

*Primarily for Undergraduates***82 House Construction** 2 credits Second semester

Problems involved in designing a house; the plan; the interior and exterior design; building materials; and methods of construction. Three one-hour periods a week. Prerequisite: H.Ec. 11-12. (IHRIG)

*For Advanced Undergraduates and Graduates***141 Interior Decoration** 2 credits First semester

The principles of art applied to interior decoration; a study of period furniture. Emphasis on the planning and decoration of the modern American house. Two two-hour periods a week with outside work. Prerequisite: H.Ec. 12. (FEATHERSTONE)

144 Advanced Interior Decoration 2 credits Second semester

A concentrated study of the colonial and modern American house. Actual problems in decorating a house or room. Two three-hour periods a week. Prerequisite: H.Ec. 141. (FEATHERSTONE)

HOUSEHOLD ADMINISTRATION

Primarily for Undergraduates

- 35 Home Nursing** 2 credits Second semester
Personal hygiene; the general care of the sick; emergencies and first aid to the injured. Two two-hour periods a week, with outside work. Open to Freshmen and Sophomores. (BUCHANAN)
- 131 House Management and Sanitation** 2 credits Second semester
Organization of the household. Two lectures a week. Open to Juniors and Seniors. Prerequisite: H.Ec. 82. (LEWIS)
- 138 Institutional Administration** 2 credits Second semester
Management and practice applied to institutional administration. Prerequisite: H.Ec. 102 and 131. (JENSEN)
- 133 Practice Cottage** 2 credits Each semester
Managing the house, planning and cooking all the meals, buying and paying the bills. Budgeting and keeping accurate account of all the expenditures. The practice cottage, will, in so far as possible, reproduce home conditions. Four weeks. Prerequisite: Senior standing. (JENSEN)

METHODS

For Advanced Undergraduates and Graduates

- 152 Methods of Teaching Home Economics** 2 credits Second semester
The relation of Home Economics subjects to education; their place in the curriculum; and the methods employed in teaching them; lesson plans, courses of study, and problems of equipment. Three one-hour periods a week. Prerequisites: 6 credits in Education, H.Ec. 24, 101, 35, and 65. (McFARLAND)
- 153 Methods in Related Art and Science** 2 credits First semester
Scientific principles applied to solution of problems arising in vocational Home Economics. Principles and problems in teaching related art in addition to art principles applied to costume design and interior decoration. Two lectures a week. Prerequisite: H.Ec. 152. (McFARLAND, FEATHERSTONE)
- 156 Methods for Extension Workers** 2 credits First semester
Methods of procedure for extension workers in Home Economics. Each student must prepare and present lectures and demonstrations on various problems of the home. Prerequisite: H.Ec. 152. Two lectures a week. (JENSEN)
- 157 Observation and Teaching in Home Economics** 4 credits Either semester
Observation and teaching under supervision in the home economics classes of the Moscow High School. Four weeks. Prerequisites: H.Ec. 152, and 105. (McFARLAND, THORNER, SOWDER, JENSEN)

HOME ECONOMICS FOR B.A. STUDENTS

Primarily for Undergraduates

- 1 Cooking and Serving (B.A.)** 2 credits First semester
For students not registered in Home Economics. This will include the preparation of food and serving of meals. Two three-hour laboratory periods a week. (LEWIS)
- 21-22 Clothing (B.A.)** 2 credits First semester
For students not registered in Home Economics. Practice in cutting, making, and remodeling of garments, including selection and care of clothing. Two three-hour laboratory periods a week. (INGALLS)
- 31 The House (B.A.)** 2 credits Second semester
For students not registered in Home Economics. To develop an appreciation of problems in connection with the planning, building and decorating of a house and the developing of good taste and appreciation in the selection and arrangement of furniture, drapes, rugs, and accessories. Two lectures a week. (FEATHERSTONE)

HORTICULTURE

Professor VINCENT, Assistant Professor TUCKER, Mr. ASHLEE

Primarily for Undergraduates

- 2 Introduction to Horticulture** 4 credits Second semester
General principles of fruit-growing from a farm and commercial standpoint; vegetable gardening with special reference to the home garden; and landscape gardening as applied to the beautifying of the home grounds. Sophomore year. Three lectures and one three-hour laboratory period a week. (VINCENT, TUCKER)
- 4 Vegetable Gardening** 2 credits Second semester
Study of the classification, culture, requirements, handling, and storage of vegetables, with special emphasis on the home garden. One lecture and one three-hour laboratory period a week. (TUCKER)
- 5 Floriculture** 2 credits First semester
Study of a wide range of garden flowers and greenhouse plants from two standpoints: first, their botanical relationship, with considerable attention to their historical origin; second, cultural requirements, with practical work in propagation and culture. One lecture and one three-hour laboratory period a week. (VINCENT)
- 6 Home Floriculture** 2 credits Second semester
Practical methods of growing flowers and ornamental plants. Actual practice in starting plants from seed, indoors and outdoors, both in frames and in the open. Study of potting, soils, insect pests, diseases of plants, winter-blooming bulbs, porch boxes, hanging baskets, etc. One

recitation and one three-hour laboratory period a week. (VINCENT, ASHLEE)

8 Potato Culture 2 credits Second semester

A course designed to meet the needs of those who desire to grow potatoes on a commercial scale. The subjects considered are: history, acreage, planting, classification, breeding, climate, soils and rotation, fertilizer, planting, irrigation, diseases, insect pests, etc. One lecture and one three-hour laboratory period a week. (VINCENT)

10 Landscape Gardening 3 credits Second semester

Elementary principles underlying the use of plants for beautifying private and public grounds. Two lectures and one three-hour laboratory period a week. (TUCKER)

For Advanced Undergraduates and Graduates

101-102 Practical Pomology 3 credits Each semester

Principles of fruit-growing. Planting, pruning, thinning, harvesting, and packing. Practical problems in growing and handling commercial orchards. The small-fruits industry. Junior year. Two lectures and one three-hour laboratory period a week. (VINCENT)

103 Systematic Pomology 2 credits First semester

The description, nomenclature, and classification of the common fruits. Practice in fruit judging and displaying. Lectures, reference reading, and laboratory. Junior year. One lecture and one three-hour laboratory period a week. Prerequisite: Hort. 2. (VINCENT)

104 Truck Gardening 3 credits Second semester

The growing of vegetables from a commercial standpoint; consideration of such topics as labor, machinery, rotation, fertilizers, marketing, crop diseases, and pests. Two lectures and one three-hour laboratory period a week. Junior year. Prerequisite: Hort. 4, or equivalent. (TUCKER)

105 Commercial Pomology 3 credits First semester

Problems of packing, marketing, transportation, storage and storage-house construction, markets, formation of fruit growers' associations, and handling by-products. Three lectures a week. Senior year. (VINCENT)

106 Spraying 3 credits Second semester

History, materials, apparatus, and various methods employed in combating insects and fungi. Practice in the College orchard. Two lectures and one three-hour laboratory period a week. Senior year. (TUCKER)

108 Landscape Design and Plant Materials 3 crs. Second semester

A systematic study of trees, shrubs, and flowers most used in landscape gardening. Collateral reading on landscape theory and design. Two lectures and one three-hour laboratory period a week. Prerequisite: Hort. 10. (VINCENT)

- 110 Evolution of Horticultural Plants** 2 credits Second semester
Theories of the requisites for plant improvement. Lectures, reference reading, and laboratory work. Two lectures a week. Elective in the Senior year. Prerequisites: Hort. 2 and Agron. 101. (TUCKER)
- 111-112 Practicums** 2 credits Each semester
A course designed especially to prepare students for positions as orchard foremen, horticultural advisers, consulting horticulturists, and orchard inspectors. Two three-hour laboratory periods a week. Elective in Senior year. Prerequisites: Hort. 2 and 101-102. (VINCENT, TUCKER)
- 113-114 Thesis and Pro-Seminar** 2 credits Each semester
Advanced problems in horticulture. Senior year. (VINCENT)
Primarily for Graduates
- 201-202 Advanced Pomology** 3 credits Each semester
Studies of special problems. (VINCENT, TUCKER)
- 203-204 Experimental Horticulture** Crs. to be arranged Each semester
Designed for those intending to follow horticulture as a profession or to take up experiment-station work. (VINCENT, TUCKER)

Journalism

(See Under English)

Latin

(See under Classical Languages)

LAW

Professors MASTERSON and HOWARD, Associate Professor HOPKINS and Assistant Professor PITTMAN

FIRST YEAR

(Required)

- 101n-102 Contracts** 3 credits Each semester
Williston's *Cases on Contracts* (3rd ed.) (MASTERSON)
- 105n-106 Criminal Law and Procedure** 2 credits First semester
3 credits Second semester
Waite's *Cases on Criminal Law and Procedure*. (HOWARD)
- 109 Civil Procedure** 3 credits First semester
Magill's *Cases on Civil Procedure*. (HOPKINS)
- 111 Property I (Personal Property)** 3 credits First semester
Bigelow's *Cases on Property* (3rd ed.) (*Personal Property*). (PITTMAN)
- 112 Property II (Rights in Land)** 3 credits Second semester
Bigelow's *Cases on Property (Rights in Land)*. (PITTMAN)

115n-116	Torts	2 credits	First semester
		3 credits	Second semester
	Green's <i>The Judicial Process in Torts Cases</i> . (HOPKINS)		

SECOND YEAR

201n-202	Equity	3 credits	Each semester
	Cook's <i>Cases on Equity</i> (One volume Ed.) (PITTMAN)		
203	Persons	2 credits	First semester
	Madden's <i>Cases on Domestic Relations</i> . (PITTMAN)		
207	Evidence	4 credits	First semester
	Maguire's Edition of Thayer's <i>Cases on Evidence</i> . (HOWARD)		
211	Property III (Wills and Administration)	2 credits	First semester
	Costigan's <i>Cases on Wills, Descent, and Administration</i> (HOPKINS)		
212	Property IV (Titles)	2 credits	Second semester
	Aigler's <i>Cases on Property</i> (<i>Titles to Real Property</i>) (2nd ed.) (HOPKINS)		
214	Agency	2 credits	First semester
	Keedy's <i>Cases on Agency</i> (MASTERSON)		
218	Bills and Notes	3 credits	Second semester
	Campbell's <i>Cases on Bills and Notes</i> . (PITTMAN)		
221n-222	Sales	2 credits	Each semester
	Lewis' <i>Cases on Sales</i> . (MASTERSON)		
232	Code Pleading	3 credits	Second semester
	Throckmorton's <i>Cases on Code Pleading</i> . (HOPKINS)		
233n-234	Credit Transactions	2 credits	Each semester
	Sturges' <i>Cases on Credit Transactions</i> . (HOPKINS)		

THIRD YEAR

251	Constitutional Law	4 credits	First semester
	McGovney's <i>Cases on Constitutional Law</i> . (HOWARD)		
253	Private Corporations	4 credits	First semester
	Warren's <i>Cases on Corporations</i> . (MASTERSON)		
256	Conflict of Laws	4 credits	Second semester
	Lorenzen's <i>Cases on the Conflict of Laws</i> . (HOWARD)		
257n-258	Trusts	2 credits	Each semester
	Scott's <i>Cases on Trusts</i> (2nd ed.) (PITTMAN)		
262	Partnership	3 credits	Second semester
	Crane's and Magruder's short selection of <i>Cases on the Law of Partnership</i> . (PITTMAN)		
263-264	Public Utilities	2 credits	Each semester
	(Not given 1932-33).		
272	International Law	2 credits	Second semester
	Hudson's <i>Cases on International Law</i> . (MASTERSON)		

- 281-282 Research** 2 credits Each semester
Open to Seniors only by special permission of the law faculty.
- 292 Mining Law** no credit
Given in 1931-1932 and in alternate years thereafter as a series of special lectures by an expert practitioner in the law of this subject.
- 294 The Law of Water** no credit
Given in 1930-1931 and in alternate years thereafter as a series of special lectures by an expert practitioner in the laws of this subject.
- 296 Practice Court** no credit
Conducted by the Bench and Bar organization of the Law School with an Idaho judge presiding. Students will advise with the faculty in preparing legal papers.

MATHEMATICS

Professor TAYLOR, Assistant Professor BENDER, Mr. BUNCH
Mr. WYMER

Credits in elementary courses in mathematics may be counted toward the degree in Senior College curricula.

Primarily for Undergraduates

- 1-2 Freshman Mathematics** 4 credits * Each semester
College algebra, trigonometry, and analytic geometry. Required of all Freshmen in the School of Mines and the School of Forestry. Math. 1 is required of students in the Pre-Medical Curriculum. (BENDER, BUNCH, WYMER)
- 3 Freshman Mathematics** 3 credits First semester
College algebra, relations among variables, introduction to plane trigonometry. Required of Sophomores in the College of Agriculture. (TAYLOR)
- 11-12 Freshman Mathematics** 5 credits Each semester
Subject matter same as Math. 1-2 with additional emphasis upon computation and upon construction and interpretation of graphs. Required of Freshmen in the College of Engineering. (BENDER, BUNCH, WYMER)
- 14 Mathematics of Finance** 3 credits Second semester
The mathematical principles involved in the problems of compound interest, annuities, bonds, and insurance. Prerequisite: Math. 1. (BENDER, BUNCH)
- 51-52 Calculus*** 4 credits Each semester
Fundamental processes and applications of differential and integral calculus. Prerequisites: Math. 1-2 or 11-12. (TAYLOR, BENDER, BUNCH, WYMER)

*For students in the College of Letters and Science, and in the School of Education this course will count as an advanced subject.

For Advanced Undergraduates and Graduates

- 101 Engineering Mathematics** 3 credits First semester
Advanced graphical methods, standard types of differential equations, complex and hyperbolic functions, harmonic analysis. Prerequisite: Math. 51-52. (TAYLOR)
- 102 Mathematics of Statistics** 3 credits Second semester
The mathematical principles underlying the modern theory of statistics. Prerequisite: Math. 51. (BENDER)
- 104 General Astronomy** 3 credits Second semester
An introduction to descriptive and mathematical astronomy. Prerequisite: Math. 51. (———)
- 111 Higher Algebra** 3 credits First semester
Determinants, theory of equations, polynomials, and infinite series. Prerequisite: Math. 51-52. (TAYLOR)
- 112 Higher Geometry** 3 credits Second semester
Modern analytic geometry, higher plane curves, and solid analytic geometry. Prerequisite: Math. 51-52. (TAYLOR)
- 121-122 Advanced Calculus** 3 credits Each semester
Partial differentiation, definite integrals, vector analysis, line and surface integrals, differential equations. Prerequisite: Math. 51-52. (TAYLOR)
- 142 Teachers' Course** 3 credits Second semester
Selected topics in algebra and geometry. Aims and methods in teaching mathematics. Designed especially for those who expect to teach Mathematics in the high school. Prerequisite: Math. 51. (TAYLOR)

Primarily for Graduates

- 201-202 Seminar** 3 credits Each semester
Selected topics will be assigned for individual study. Written reports will be required. Regular conferences will be held for criticism and discussion. Open to graduate students only. (TAYLOR)
- 221 Theory of Functions** 3 credits First semester
An introductory course in the theory of functions of a complex variable. Prerequisite: one semester of advanced calculus. (TAYLOR)
- 222 Differential Equations** 3 credits Second semester
An advanced course in ordinary and partial differential equations. Prerequisite: one semester of advanced calculus. (TAYLOR)

MECHANICAL ENGINEERING

Professor GAUSS, Mr. CRUIKSHANK, Mr. SCHROEDER

Primarily for Undergraduates

- 1 Wood Shop** 1 credit First semester
Exercises in wood working, both bench and lathe work, including the use of wood-working machines. Three hours in shop.

- 2 Forge Shop** 1 credit Second semester
Exercises in forging iron and steel, in heat treatment and tempering. Instruction in oxy-acetylene welding and in the use of forging machinery. Three hours in shop.
- 3 Machine Shop** 2 credits First semester
Bench work in metals, chipping, filing, fitting. Exercises in machine tool work, turning, planing, threading, drilling, milling, and grinding. Six hours in shop. Prerequisite: M.E. 2.
- 4 Foundry** 3 credits Second semester
Exercises in pattern making and foundry work, including moulding, core making, operation of the cupola and crucible furnaces. One lecture and six hours in shop. Prerequisite: M.E. 3.
- 5 Machine Drawing** 2 credits First semester
The making of shop drawings, both details and assemblies. One recitation and three hours in drafting room. Prerequisite: C.E. 1-2.
- 13 Mechanism** 3 credits First semester
Engineering kinematics: The principles underlying the action of the elementary combinations of which all machines are composed; the communication of motion by gear wheels, belts, cams, screws, and link work; and the various means of producing changes of velocity. Two recitations and three hours in drafting room. Prerequisites: C.E. 1 and 2.
- For Advanced Undergraduates and Graduates*
- 121 Thermodynamics I** 3 credits First semester
An elementary course in heat engines covering the units involved in the more advanced courses; the fuels used for power plant purposes; the various types of steam boilers and their ratings; boiler and boiler-room accessories; the steam engine; steam turbines; gas engines. Prerequisites: Phys. 11-12 and Math 51-52.
- 122 Thermodynamics II** 3 credits Second semester
Fundamental principles pertaining to the theory and design of heat engines. Nature and effects of heat; the laws of gases; conversion cycles; hot air engines; gas power; vapors; steam engines and turbines; mechanical refrigeration. Prerequisite: M.E. 121.
- 123 Aerodynamics I** 3 credits First semester
Introductory course. Airplane construction, instruments, controls, and accessories. Airways, aviation, commercial application. Prerequisite: junior standing.
- 124 Machine Design** 2 credits Second semester
Fundamental principles involved in the design and operation of machinery. Studies of fastenings, belting and pulleys, transmission of power, gearings, couplings, clutches, brakes, shaftings and bearings. Prerequisites: C.E. 101, C.E. 103, M.E. 5 and 13.
- 125 M.E. Design** 2 credits First semester
The student selects and designs an approved machine. Complete computations are made and detail and assembly drawings prepared. Prerequisite: M.E. 124.

127 Mechanical Engineering Laboratory (Gas) 2 crs. First semester

A course designed to demonstrate the theories and principles used in practice. Fuel consumption and efficiencies, carburetion, ignition, valve mechanisms, governing, the effect of compression and lubricating oils. Six hours in laboratory. Prerequisites: M.E. 121 and 128.

128 Mechanical Engineering Laboratory (Steam)

2 credits

Either semester

The generally approved methods of testing engines, turbines, pumps, and auxiliary apparatus found in power plants. The calibration and proper use of testing apparatus. Report writing. Six hours in laboratory. Prerequisite: M.E. 121.

129 Aerodynamics II

3 credits

First semester

The general principles of aeronautics and the application of these principles to airplane design. Air foils and their combinations are studied in detail together with the effects of surface texture, scale effect, parasite drag, speed and climb calculations, stability, controls, and maneuverability. Prerequisite: senior standing.

133 Steam Power Plant Engineering 3 credits

First semester

A comprehensive study of the design and operation of the various elements which make up a modern steam plant. Specifications, cost of power, fuels, steam boilers, conveying systems, draft, feed water treatment and pumps. Prerequisites: M.E. 121, 122, and 128.

136 Steam Power Plant Engineering 2 credits

Second semester

A continuation of M.E. 133. A complete power plant is designed to meet a prescribed set of conditions. Inspection trips are made to nearby plants. Prerequisite: M.E. 133.

140 Pro-Seminar

1 credit

Second semester

Training in the systematic accumulation of data available in current literature. Emphasis is laid on clear and correct expression in written and oral reports. Prerequisite: senior standing.

141 Thermodynamics

2 credits

First semester

A continuation of M.E. 122. Prerequisite: M.E. 122.

142 Airplane Engines

2 credits

Second semester

The design and operation of airplane engines. A study of the various types and their applications to airplanes, together with power requirements, fuel consumption, and velocity of propulsion. Prerequisites: M.E. 123 and 129.

144 Heating and Ventilation 2 credits

Second semester

The principles involved in the practice of heating and ventilation; measurement of heat and temperature; appliances; heat losses; types of heating; temperature control; refrigeration; tests. Prerequisite: M.E. 128.

150 Thesis

3 credits

Second semester

Prerequisite: senior standing.

- 152 Hydraulic Machinery** 3 credits Second semester
The construction and arrangement of centrifugal pumps, turbines, and hydraulic machinery; principles of operation and characteristics; theory and design of turbine blading; pump impellers. Prerequisites: C.E. 101, C.E. 104, and M.E. 124.

Primarily for Graduates

- 201-202 Seminar** Credits to be arranged Each semester
223-224 Thermodynamics Credits to be arranged Each semester

The working and instructional facilities of the department will be placed at the disposal of qualified students selected for this work.

- 239-240 Research** 1 credit Each semester
Subjects for investigation and group discussion will be selected in some field of special activity.

METALLURGY

Professor FAHRENWALD, Assistant Professor STALEY, Mr. LUNDQUIST,
Mr. NEWTON

For Advanced Undergraduates and Graduates

- 102 General Metallurgy** 2 credits Second semester
Properties of metals and alloys; metallic compounds; ores and their values; fuels; refractory materials; pyro-metallurgical processes and apparatus; electro-metallurgical processes and apparatus; mechanical treatment of alloys; handling of gases; metallurgical products. Prerequisites: Phys. 1-2 and Chem. 3-4. (FAHRENWALD)
- 103 General Metallurgy (Laboratory)** 1 credit First semester
Laboratory work. Prerequisite: Met. 102. (FAHRENWALD)
- 104 Fire Assaying** 1 credit Second semester
Lectures. Prerequisites: Chem. 1-2. (LUNDQUIST)
- 105 Fire Assaying (Laboratory)** 2 credits First semester
Determination of gold, silver, and lead in ores and metallurgical products according to the most approved methods in use in the mills and smelters of the West. A high standard of accuracy is required. One six-hour laboratory period. Prerequisite: Met. 104. (LUNDQUIST)
- 106 Metallurgy of Iron and Steel** 1 credit Second semester
Manufacture of iron and steel; blast furnaces; puddling, cementation; crucible process; bessemer process; open-hearth process; iron and steel founding; heat treatment; malleable cast iron; constitution of iron and steel, and relation to physical properties; alloy steels. Prerequisites: Chem. 1-2 and Phys. 1-2. (FAHRENWALD, NEWTON)
- 109 Metallurgical Calculations** 1 credit First semester
Thermochemistry of roasting and smelting; calculations of furnace charges; heat balance sheets; electrothermic reactions. Prerequisites: Met. 102 and 115-116. (FAHRENWALD, NEWTON)

110 Buying and Selling Ores and Metallurgical Products

1 credit

Second semester

Underlying principles; metal prices and trade methods; gross and net value of an ore; freight costs; milling and smelting penalties; smelter and mill rates and schedules. Prerequisites: Met. 102 and 115-116. (FAHRENWALD)

111 Ore Dressing

2 credits

First semester

General principles of ore dressing. The flotation process. Flow sheets of typical concentrators. Testing of ore to determine proper method of treatment, using small and large machines; cyaniding gold and silver ores. Two lectures and two three-hour laboratory periods. Prerequisites: Phys. 1-2 and Chem. 3-4. (FAHRENWALD)

112 Ore Dressing (Laboratory)

2 credits

Second semester

Laboratory work. Prerequisite: Met. 111. (FAHRENWALD)

115-116 Non-Ferrous Metallurgy

2 credits

Each semester

Sampling and preparation of ores for metallurgical treatment, pyrometallurgy and hydrometallurgy of gold and silver ores and ores of copper, lead, zinc, nickel and other base metals; flotation and smelting, amalgamation, cyaniding, and chlorination of gold-silver ores.

195-196 Thesis

2 credits

Each semester

The first semester is optional. The second semester is required. (FAHRENWALD, STALEY)

Primarily for Graduates

201-202 Metallurgical Investigation

Credits to be arranged

Each semester

Laboratory work on problems in the metallurgical treatment of gold, silver, copper, lead, or zinc ores. (FAHRENWALD, STALEY, NEWTON)

MILITARY SCIENCE AND TACTICS

Brigadier General CHRISMAN, Captain HENKLE, Captain HALE, First Lieutenant SHEEHY, Band Leader NIELSEN, First Sergeant WOODS, Sergeant BARNUM

RESERVE OFFICERS' TRAINING CORPS.—An infantry unit of the senior division of the R.O.T.C. is established at the University under the National Defense Act of June 3, 1916, as amended by the Act of June 4, 1920.

The training is conducted in accordance with U.S. Army Regulations, and has for its primary object education of the student to become an officer of the army in time of war or other grave emergency; in time of peace to affiliate with the national guard or organized reserves and thus assist in their development and efficiency. Upon graduation the student may elect to be commissioned in the Officers' Reserve Corps of the army.

ORGANIZATION.—For purposes of administration and training, the students are organized as an infantry regiment with field staff and band under a type of discipline suited to their intelligence. The United States govern-

ment provides the necessary technical equipment and supplies, including uniforms, used in the work of the department.

ANNUAL ENCAMPMENT.—Reserve Officers' Training Corps Camps for the Ninth Corps Area are established by the government each year, extending from about June 15 to July 27. Attendance is free from expense on the part of the student. It is required for advanced course students, normally at the completion of the junior year.

RIFLE TEAMS.—The Department of Military Science and Tactics trains rifle teams of men and women students, both of which compete telegraphically with similar teams of other institutions.

MILITARY BAND.—A band of 65 pieces is maintained as part of the R.O. T.C. course. Membership is normally composed of basic course students. Selected juniors and seniors may continue training in advanced military band leadership and practice on the basis of three credits a semester, not to exceed six credits in addition to basic credits previously earned in the band.

BASIC COURSE

REQUIRED.—Three hours a week of all able-bodied citizen male students in the Freshman and Sophomore classes, and of those who are special students.

First Year

1-2 Military Science 1½ credits Each semester

Theoretical, 22 hours; practical, 78 hours.

Military courtesy. Drill and command. Physical training supplemental. Infantry drill regulations. Rifle marksmanship. Military hygiene and first aid. Military history. National Defense Act. Scouting and patrolling.

1a-2a First Year Military Band 1½ credits Each semester

Theoretical, 10 hours; practical, 90 hours.

Leadership; band music; concert music.

Second Year

3-4 Military Science 1½ credits Each semester

Theoretical, 30 hours; practical, 70 hours.

Same subjects as in Mil. 1-2 (continued). Musketry. Scouting and patrolling. Automatic rifle. Combat principles.

3a-4a Second Year Military Band 1½ credits Each semester

Continuation of 1a-2a.

ADVANCED COURSE

ELECTIVE.—Five hours a week for students who have completed the basic course creditably. A student pursuing the advanced course will be commissioned in the regiment as a cadet officer during his second year in the advanced course and will be appointed a non-commissioned officer during the first year thereof. Advanced course students will receive cash allowances amounting to more than \$260 for the two years and from this allowance will be furnished a complete officer's uniform for use when commissioned as a reserve officer.

Third Year**105-106 Military Science** 3 credits Each semester

Theoretical, 75 hours; practical, 92 hours.

Drill and command. Infantry weapons. Military sketching and map reading. Machine guns. Combat principles. Military history. 37mm. gun and three-inch trench mortar.

105a-106a Third Year Military Band 3 credits Each semester

Theoretical, 20 hours; practical 147 hours.

Leadership; military band music; concert music; solo work.

Fourth Year**107-108 Military Science** 3 credits Each semester

Theoretical, 96 hours; practical, 71 hours.

Drill and command. Company administration. Military history. Tactics. Military law and R.O. regulations. Rules of land warfare. Military field engineering. Combat principles.

107a-108a Fourth Year Military Band Credits arranged Each semester

Continuation of 105a-106a.

No more than 12 credits may be earned in Military Band during the four years.

MINING

Professors FINCH, FAHRENWALD, and LANEY, Assistant Professor STALEY

*Primarily for Undergraduates***1-2 The Mineral Industry** 1 credit Each semester

A general study of the methods used in the prospecting and exploitation of mineral deposits and an introduction to the more important metallurgical operations. Planned for Freshmen in the School of Mines and for others who desire a general acquaintance with our mineral resources and their utilization. One lecture each week. (FINCH, FAHRENWALD, LANEY, STALEY)

*For Advanced Undergraduates and Graduates***101 Elements of Mining** 3 credits First semester

Prospecting, boring, drilling, explosives and blasting, rock breaking, support of excavations, underground transport, mine drainage, ventilation, quarrying, open-pit and alluvial mining. Prerequisites: Math. 1-2, and Phys. 1. (STALEY)

103 Mine Plant Design 3 credits First semester

The student designs a plant and machinery for a hypothetical mine. Prerequisites: Phys. 121-122. (STALEY)

105 Mining Economics 2 credits First semester

Mine sampling, mine valuation; calculation of value of ore from widths and assays; probable and prospective ore; capitalization; amortization; costs of production; cost-keeping; the more important aspects of mining law; essential features of reports by mining engineers. Prerequisite: Geol. 103-104. (STALEY)

106 Mine Surveying 2 credits Second semester

Lectures on the standard methods of surveying practiced in the large mining districts of this country, including instruments and equipment; carrying the meridian underground; underground traverses; note-books and office records; maps; stope surveying, calculation of tonnage extracted. Calculation and reduction of notes from a mine survey and plotting by coordinates. Claim surveying. Prerequisite: C.E. 3a-4. (STALEY)

107 Mine Surveying 2 credits First semester

Three weeks' field instruction, August 25 to September 15 inclusive, meridian observations, triangulation control, locating claim boundaries, underground surveys, one credit; office work computing field notes, drawing maps, and sections; one three-hour period throughout semester, one credit. Prerequisite: Min. 106. (STALEY)

108 Mine Rescue and First Aid 1 credit Second semester

This course is given in cooperation with the U.S. Bureau of Mines, the mine rescue car visiting Moscow for this purpose. (STALEY)

110 Senior Trip 2 credits Second semester

A tour of inspection covering some important mining districts. Notes and observations are made upon geological, mining, and metallurgical features. Required of all Seniors, and open only to them. (FAHRENWALD, STALEY)

112 Mining Methods 3 credits Second semester

Various methods of underground mining are taken up. Stoping, slicing, cut and fill, room and pillar, and block caving methods are discussed along with the choice of method and the combination of these various methods. Three lectures. Prerequisite: Min. 101. (STALEY)

197-198 Thesis 1 credit Each semester

Optional in the first semester. Required the second semester. (FAHRENWALD, STALEY)

*Primarily for Graduates***201-202 Mining Research Problems** Credits arranged Each semester

Special problems and investigations in mining methods, mining machinery, equipment and design. (FAHRENWALD, STALEY)

MODERN LANGUAGES

Professors ELDRIDGE and SARGENT, Associate Professors TROMANHAUSER
and HOWE, Assistant Professors ASHBY, and RENTFRO, Mr.
VAZQUEZ*, Mrs. LATTIG, Mr. BEATTIE

Credits in elementary courses in foreign languages may be counted toward a degree in Senior College curricula.

FRENCH

Students who present two years of high-school French for admission will continue in French 13-14. Those who have had one year of high-school French may take French 2, but in many cases it will be advisable to register for French 1 in review, without credit for one semester. Elementary French and Elementary Spanish may not be taken the same year. No credit is given for French 1 until French 2 is completed.

Primarily for Undergraduates

- 1n-2 Elementary French** 4 credits Each semester
(RENTFRO, BEATTIE)
- 13-14 Intermediate French** 4 credits Each semester
The aim of this course is to give the student an accurate and fluent reading knowledge of French prose. Idioms, irregular verbs, syntax, composition, and conversation based on the text. Prerequisite: Fr. 1n-2, or two years of high-school French. (SARGENT, BEATTIE)
- 15-16 Scientific French** 3 credits Each semester
A special reading course open only to students majoring in science. A French scientific reader and collateral reading in French scientific journals. Prerequisite: Fr. 1n-2. (HOWE)
- 21-22 Advanced Sophomore French** 2 credits Each semester
Open to Sophomores only. Prerequisite: Fr. 13-14. (BEATTIE)

For Advanced Undergraduates and Graduates

- 111-112 Advanced Composition and Conversation** 2 credits Each semester
A thorough study of advanced grammar and composition. Constant drill in conversation. Prerequisite: Fr. 13-14. (BEATTIE)
- 115-116 Advanced Scientific French** 1 to 2 credits Each semester
Directed reading in scientific French, open to those who have had Fr. 15-16 and to others by special permission. Forty-five hours of reading per credit and weekly reports to the instructor. (HOWE)
- 121-122 A Survey of French Literature** 3 credits Each semester
A study of the development of French literature from its origins to our day. Lectures, reading, reports. Conducted, so far as possible in French. Open to students who have had Fr. 13-14. (SARGENT)

*On leave, 1931-32.

135-136 The Nineteenth Century 3 credits Each semester

An intensive reading course with accompanying lectures on the development of the various schools of French literature during the nineteenth century. Prerequisite: Fr. 13-14. (BEATTIE)

141-142 The Seventeenth Century 3 credits Each semester

After a preliminary study of selected non-dramatic writings of the period, several of the masterpieces of Corneille, Moliere, and Racine are read. Prerequisite: Fr. 13-14. (ELDRIDGE)

145-146 Contemporary Literature 3 credits Each semester

An intensive reading course with accompanying lectures on recent French literary productions. Reading will be in French for those pursuing the French curriculum; in English translations for others. Prerequisite: senior college standing. (VAZQUEZ)

161-162 Directed Reading 1 to 3 credits Each semester

Prerequisite: Completion of two or more advanced class-courses in French. Not intended as a substitute for such courses, but as a supplement to them. Written permission of the Head of the Department required. (STAFF)

191 Methods in Teaching French 2 credits First semester

Thorough drill in phonetics and pronunciation. Consideration of methods of teaching and examination of texts and courses of study. Practice teaching and observation. Prerequisite: Fr. 13-14, and at least one course in literature. (SARGENT)

Readings in European Literature 2 credits Each semester

See English 175-176.

History of French Civilization 2 credits Each semester

See European History 141-142.

*Primarily for Graduates***201-202 Old French** 3 credits Each semester

Readings and interpretation of Old French texts selected from *Constans: Chrestomathie de l'Ancien Français*, with a study of Old French phonology and morphology. (ELDRIDGE)

221-222 The Literature of the Renaissance 3 credits Each semester

A study of the literature of the French renaissance and the beginnings of classicism. Individual study and reports; lectures; class study of selected texts. (HOWE)

261-262 French Seminar 2 to 4 credits Each semester
(ELDRIDGE)**271-272 Research** 2 to 4 credits Each semester
(STAFF)

GERMAN

Students who present two years of high-school German for admission will continue in German 13-14. Those who have had one year of high-school German may take German 2, but in many cases it will be advisable to register for German 1 in review, without credit for one semester. No credit is given for German 1 until German 2 is completed. Advanced and graduate courses are given according to the needs of students.

Primarily for Undergraduates

1n-2 Elementary German 4 credits Each semester
(ELDRIDGE, ASHBY)

13-14 Intermediate German 4 credits Each semester

The primary aim of this course is to give the student an accurate and fluent reading knowledge of modern German, but grammar review, composition, and conversation are included so far as time permits. Prerequisite: Ger. 2, or two years of high-school German. (ASHBY)

15-16 Scientific German 3 credits Each semester

A special course in scientific German, open to those who have completed German 13-14 and to others by special permission. A science reader, followed by reading in scientific journals and short monographs. Separate sections for Chemistry and Pre-Medical students. (TROMANHAUSER, ASHBY)

For Advanced Undergraduates and Graduates

111-112 Advanced Composition and Conversation

2 credits Each semester

Prerequisite: Ger. 13-14. (TROMANHAUSER)

115-116 Advanced Scientific German 1 to 2 credits Each semester

Directed reading in scientific German, open to those who have had German 15-16 and to others by special permission. Forty-five hours of reading per credit and weekly reports to the instructor. (ASHBY)

121-122 Survey of German Literature 3 credits Each semester

Selected readings, reports, and lectures. Robertson's *History of German Literature*, Thomas' *Anthology*. Prerequisite: Ger. 13-14. (ELDRIDGE)

135-136 The Nineteenth Century 3 credits Each semester

(ASHBY)

141-142 Schiller 3 credits Each semester

Schiller's life. Selected lyrics and ballads. *Die Jungfrau von Orléans* or *Don Carlos*, *Wilhelm Tell*, *Die Braut von Messina*, and the *Wallenstein* complete. Prerequisite: Ger. 13-14. (TROMANHAUSER)

143-144 Goethe 3 credits Each semester

Study of Goethe's life and development, in connection with his lyric poems. *Gotz von Berlichingen*, *Egmont*, *Tasso*, *Faust*, *Iphigenie*. Prerequisite: One advanced year-course in German. (ELDRIDGE)

147-148 Modern Drama 2 credits Each semester
Reading and discussion of representative dramas from 1890 to the present. Course conducted chiefly in German. (SARGENT)

161-162 Directed Reading 1 to 3 credits Each semester
Prerequisite: Completion of two or more advanced class-courses in German. Not intended as a substitute for such courses but as a supplement to them. Written permission of the Head of the Department required. (STAFF)

Readings in European Literature 2 credits Each semester
See English 175-176.

History of German Civilization 2 credits Each semester
See European History 151-152.

Primarily for Graduates

201-202 Middle High German 3 credits Each semester
Grammar, Michels: *Mittelhochdeutsches Elementarbuch*. Reading of Hartman's *Der arme Heinrich*; the *Nibelungenlied*; selected poems of Walter von der Vogelweide; and selections from Wolfram von Eschenbach's *Parzival*. (ELDRIDGE)

271-272 Research 2 to 4 credits Each semester
(STAFF)

ITALIAN

Primarily for Undergraduates

1-2 Elementary Italian 3 credits Each semester
The essentials of Italian grammar, with constant practice in pronunciation, simple translations from English into Italian, and the reading of easy Italian. (ASHBY)

OLD NORSE

101-102 Old Norse (Icelandic) 3 credits Each semester
Prerequisite: German 1-2, or English 131. (ELDRIDGE)

SPANISH

Students who present two years of high-school Spanish for admission will continue in Spanish 13-14. Those having one year of high-school Spanish may take Spanish 2, but often it will be better to take Spanish 1 in review, without credit for one semester. No student may elect French 1 and Spanish 1 the same year. No credit is given for Spanish 1 until Spanish 2 is completed.

Primarily for Undergraduates

1n-2 Elementary Spanish 4 credits Each semester
(HOWE, LATTIG)

- 13-14 Intermediate Spanish** 4 credits Each semester
 Reading of modern authors, composition and conversation, review of grammar, and a study of idioms. The aim of this course is to give the student a reading knowledge of modern Spanish. (TROMANHAUSER, LATTIG)
- 21-22 Advanced Sophomore Spanish** 2 credits Each semester
 Prerequisite: Span. 13-14. Open to Sophomores only. (TROMANHAUSER)

For Advanced Undergraduates and Graduates

- 111-112 Advanced Composition and Conversation**
 2 credits Each semester
 A thorough study of advanced grammar and composition. Constant drill in conversation. Prerequisite: Span. 13-14. (HOWE).
- 121-122 Survey of Spanish Literature** 3 credits Each semester
 Lectures, reading of selected texts, reports. Conducted, so far as possible, in Spanish. Prerequisite: Span. 13-14. (HOWE)
- 135-136 The Nineteenth Century** 3 credits Each semester
 (TROMANHAUSER)
- 141-142 The Golden Age** 3 credits Each semester
 A study of the development of the Spanish drama until the death of Calderon; the great types of the Spanish novel; the mystics; the rise and decadence of poetic taste in the sixteenth and seventeenth centuries. (VAZQUEZ)
- 147-148 Contemporary Literature** 3 credits Each semester
 Readings and discussions of contemporary writers, including those of Spanish America. Prerequisite: Span. 13-14. (SARGENT)
- 161-162 Directed Reading** 1 to 3 credits Each semester
 Prerequisite: Completion of two or more advanced class-courses in Spanish. Not intended as a substitute for such courses, but as a supplement to them. Written permission of the Head of the Department required. (STAFF)
- 192 Methods in Teaching Spanish** 2 credits Second semester
 Thorough drill in pronunciation and grammar. Consideration of methods of teaching, examination of texts, and courses of study. Practice teaching and observation. Prerequisite: Span. 13-14, and at least one course in literature. (SARGENT)
- Readings in European Literature** 2 credits Each semester
 See English 175-176.
- History of Spanish Civilization** 2 credits Each semester
 See European History 161-162.

Primarily for Graduates

- 201-202 Old Spanish** 2 credits Each semester
 The elements of historical Spanish grammar, with an intensive study of selected texts. Students electing this course should have a fluent reading knowledge of Spanish, French, and Latin; a knowledge of German is highly desirable. (HOWE)
- 261-262 Seminar in Spanish Literature** 2 to 4 credits Each semester
 (SARGENT)
- 271-272 Research** 2 to 4 credits Each semester
 (STAFF)

MUSIC

Professor CUMMINGS, Assistant Professors CLARK, CLAUS, GARNETT, MISS LITTLE, MR. MILLER, MISS BOTHNE, MISS FREDRICKSON,
 Professor SARGENT

Credit in applied music and organized music may be counted toward graduation from the Senior Colleges irrespective of the number of the course taken.

ORGANIZED MUSIC

MIXED CHORUS AND TREBLE CLEF CLUB.—Membership in these choral organizations is open to all students in the University, after consultation with the director. Choral work includes a Mixed Chorus, the Treble Clef Club (women), Vandaleers, Vandalettes, String Quartet, and Male Quartet.

THE UNIVERSITY ORCHESTRA.—Membership in the University Orchestra is open to all students in the University who can qualify, after consultation with the conductor. Students who take this work have unusual opportunity for sight-reading, and a thorough study of orchestra literature, and routine.

CADET MILITARY BAND.—The Cadet Military Band is organized from members of the R.O.T.C. and others who register especially for this work.

CLASSIFICATION OF STUDENTS

All students taking instruction in the Department of Music will be classified in one of the following groups: (a) Bachelor of Music; (b) Bachelor of Science in Music Education; (c) Bachelor of Arts, with music (piano, voice, violin, or cello), as a major study; (d) Bachelor of Science in Education, with public school music as a teaching subject; (e) Students not classified in any of the above-named groups.

At the beginning of the Junior year a candidate for a degree in music will be given an examination in his major subject in the Music Department.

GENERAL MUSIC COURSES

Primarily for Undergraduates

- 1-2 Sight Singing and Ear Training** 2 credits Each semester
 The singing, recognition, and writing of intervals, chords and cadences in the major and minor scales. Practice in melodic and rhythmic dictation. Two and three part singing stressed. (GARNETT)

- 3-4 Harmony** 2 credits Each semester
 Rudiments of music. Inversions of triads. Dominant seventh chord.
 Assigned melodies, basses, and original work. (LITTLE)
- 5-6 Harmony** 2 credits Each semester
 Modulations. Altered chords. Ornamental tones. Augmented sixth
 chords. Piano accompaniments to assigned and original melodies. (LITTLE)
- 11-12 Advanced Sight Singing, Ear Training** 2 credits Each semester
 Advanced melodic and rhythmic dictation. Harmonic dictation begun.
 Three and four part singing in treble, bass, tenor, and alto clefs. More
 advanced chromatic problems and modulations. (GARNETT)
- 13-14 Keyboard Harmony** 1 credit Each semester
 Wedge's textbook on *Keyboard Harmony* is used. (GARNETT)
- 55-56 Music Appreciation** 1 credit Each semester
 An elective course open to all students of the University. It will
 give the interested student an opportunity to hear good music and learn
 to converse intelligently on the subject. Two lectures each week.
 (MILLER)
- 59-60 Musical Diction** 2 credits Each semester
 A study of the science of phonetics with special stress upon the
 sounds and enunciation of foreign languages as required in singing.
 (SARGENT)

For Advanced Undergraduates and Graduates

- 101-102 History of Music** 2 credits Each semester
 Detailed study of historical periods in history of music. (MILLER)
- 103-104 Form and Analysis** 2 credits Each semester
 Chord-analysis, analytical study of form. Prerequisites: Mus. 3-4,
 5-6, and 13-14. (LITTLE)
- 105-106 Counterpoint** 2 credits Each semester
 Counterpoint in the various species in two, three, and four parts.
 Prerequisites: Mus. 3-4, and 5-6. (MILLER)
- 108 Piano Class Methods** 1 credit Second semester
 The student is made familiar with the best piano class methods of
 instruction. (GARNETT)
- 109-110 Elementary Composition** 2 credits Each semester
 Application of both poetry and prose to musical forms. Writing of
 accompaniments for voice and solo instruments. Original writing. Pre-
 requisites: Mus. 103-104 and 105-106. (MILLER)
- 111-112 Instrumentation** 2 credits Each semester
 A general treatment of orchestral instruments as to range, relations
 of one to another, tone qualities, etc. Arranging music for school or-

chestras, transposition, and arranging from piano score. Prerequisite: Mus. 103-104. (MILLER)

117-118 Instrumental Ensemble 1 credit Either semester
Study of piano trios and other chamber-music. (LITTLE)

119-120 Accompanying 1 credit Each semester
Practical experience in accompanying singers and instrumentalists. Open to piano students with sufficient technical equipment. (LITTLE)

171-172 Elementary School Music 2 credits Each semester
Music materials of the primary grades, presented according to the class methods employed in public schools. (GARNETT)

173-174 Class String-Instrument Teaching 3 credits Each semester
Basic course in instrumental music for the public schools. Foundation for all string instruments. (CLAUS, LITTLE)

175-176 Class Wind-Instrument Teaching 3 credits Each semester
Basic course in instrumental music for the public schools. Furnishes a foundation for all wind instruments. (MILLER)

177-178 High-School Music 3 credits Each semester
Materials and methods for junior and senior high schools; the adolescent voice and its care; testing and classification of voices; public performances and the school assembly. Prerequisite: Mus. 171. (GARNETT)

179-180 Conducting 1 credit Each semester
Technique of the baton. Study of material, interpretation and score reading. Practical experience in conducting. (CLAUS)

Practice Teaching (Ed. 131) 1 to 4 credits Either semester
To be arranged with the Director of Practice Teaching and the vocal or instrumental supervisor. Required in the Public School Music Curriculum. Prerequisites: Mus. 171-172, or 173-174, or 175-176.

Primarily for Graduates

205-206 Canon and Fugue 2 credits Each semester
Double counterpoint, imitation, sequences, canons and inventions. Fugue in three or more parts. Prerequisite: Mus. 105-106. Counterpoint. (LITTLE)

209-210 Advanced Composition 2 credits Each semester
An original composition in one of the larger forms of at least thirty minutes duration. Prerequisite: Elementary Composition and Mus. 103-104, Form and Analysis. (MILLER)

211-212 Orchestration 2 credits Each semester
The arranging and scoring of orchestral parts. The writing of an original composition for orchestra, or solo instrument or voice with orchestra. Prerequisites: Mus. 111-112, Instrumentation. (MILLER)

PIANO

Assistant Professor CLARK

The Department of Music seeks to develop not only pianists but musicians. Work is adapted to the individual need of the student.

The following list of studies and compositions is merely indicative of the work required each year.

Primarily for Undergraduates

- 21-22 Piano Playing** 2 or 4 credits Each semester
Freshman year. Scales and arpeggios. Czerny, *opus*, 299. Bach, *Two-part Inventions*. Sonatas, Haydn, and Mozart.
- 23-24 Piano Playing** 2 or 4 credits Each semester
Sophomore year. Czerny, *opus* 740. Bach, *Three-Part Inventions*. Easier sonatas and works of equal difficulty.

For Advanced Undergraduates and Graduates

- 125-126 Piano Playing** 2, 4, or 5 credits Each semester
Junior year. Bach, *Welltempered Clavichord*. Chopin, *Etudes*, and works of equal difficulty.
- 127-128 Piano Playing** 2, 4, or 5 credits Each semester
Senior year. Bach, *Welltempered Clavichord*, Chopin, *Etudes*, and compositions by classic and modern composers. Graduation recital.

VOICE

Professor CUMMINGS, MISS BOTHNE, MISS FREDRICKSON

In this study, a normal, natural development of the given powers of every student is undertaken. Correct diction, whether in English, German, French or Italian, is insisted upon.

Primarily for Undergraduates

- 31-32 Singing** 2 or 4 credits Each semester
For Freshman year. A proper and definite breath control. Songs of moderate difficulty sung with correct intonation, time, tone quality, and interpretation.
- 33-34 Singing** 2 or 4 credits Each semester
For Sophomore year. Continued drill in technic of breathing, tone placing, and phrasing. Easier oratorio selections and operatic arias. Art songs from the standard classics.

For Advanced Undergraduates and Graduates

- 135-136 Singing** 2, 4, or 5 credits Each semester
For Junior year. Ensemble singing from the standard operas and oratorios. Songs of advanced grade from classic and modern composers.
- 137-138 Singing** 2, 4, or 5 credits Each semester
For Senior year. An extensive repertoire from the best song literature. Graduation recital.

VIOLIN

Assistant Professor CLAUS

In the study of the violin, a carefully graded and very thorough course is pursued, in bowings as well as left hand technic; but it is kept very flexible in order to conform to the peculiar needs of each individual student.

Primarily for Undergraduates

- 43-44 Violin Playing** 2 for 4 credits Each semester
For Freshman year. Studies by Kreutzer and Sevcik. Scales and arpeggios in two and three octaves. Sonatas by Handel and Tartini. Concertos by Viotti, de Beriot, and others. Solo numbers.
- 43-44 Violin Playing** 2 or 4 credits Each semester
For Sophomore year. Continuation of studies by Kreutzer and Sevcik. Studies by Fiorilla and Rode. Sonatas and concertos by Handel, Vitali, Mozart, and others. Solo numbers.

For Advanced Undergraduates and Graduates

- 145-146 Violin Playing** 2, 4, or 5 credits Each semester
For Junior year. Scale system by Carl Flesch. Selected studies by Kreutzer, Fiorilla, Rode, and Sevcik. Compositions by Wieniawski, Sarasate, Beethoven, Vieuxtemps, Kriesler, and others.
- 147-148 Violin Playing** 2, 4, or 5 credits Each semester
For Senior year. Technical studies continued. Scale system by Carl Flesch. Studies by Dont. Compositions by Wieniawski, Saint Saens, Vieuxtemps, Tartini, Bruch, and others. Graduation recital.

VIOLONCELLO

MISS LITTLE

Primarily for Undergraduates

- 61-62 Cello** 2 or 4 credits Each semester
Etudes by Werner, Schroeder, Lee, Dotzauer, Krummer, and Gruttmacher. Scales and arpeggios in three octaves. Easy concertos by Klengel, Romberg, and Goltermann. Thumb position studies.
- 63-64 Cello** 2 or 4 credits Each semester
Continuation of 61-62.

For Advanced Undergraduates and Graduates

- 161-162 Cello** 2, 4, or 5 credits Each semester
Continuation of three octave scale and arpeggio, and thumb position studies. Etudes by Dupont and Franchomme.
- 163-164 Cello** 2, 4, or 5 credits Each semester
Sonatas by Bach, Corelli, and Sammartini. Concertos by Romberg, Goltermann, Saint Saens, and Lalo.

ORCHESTRAL AND BAND INSTRUMENTS

Students may enroll for private instruction in any of the instruments used in the standard symphony orchestra or the standard military or concert band. Two credits will be given for one lesson a week and four credits for two lessons a week.

Primarily for Undergraduates

85-86	String Instruments	2 or 4 credits	Each semester
91-92	Brass Instruments	2 or 4 credits	Each semester
95-96	Wood-Wind Instruments	2 or 4 credits	Each semester
97-98	Percussion Instruments	2 or 4 credits	Each semester

ORGANIZED MUSIC

35-36	Glee Club	1 credit	Each semester
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This work is taken by students interested in glee club and chorus. Admission is through tryouts. (GARNETT, CUMMINGS)

45-46	Orchestra	1 credit	Each semester
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The orchestra is open to all qualified students of the University and is required of students majoring in the orchestral instruments. (CLAUS)

Note:—The maximum credit allowed for four years in either orchestral, choral, or band work is eight credits.

EXAMINATIONS

Regular examinations for classification and promotion are held at the close of each semester in all applied and general music courses, and the semester standing and classification of a student in each of his courses are reported by the instructor to the registrar and recorded.

DEPARTMENTAL REGULATIONS

Students, wanting credit for work done, are not permitted to register for a briefer period than a full semester. Students may register for private lessons in applied music at any time and pay only for the number of lessons taken, but no credit will be given.

Students not of University rank may register for the courses in music but will not be given credit.

Tuition is payable in advance for the semester or unexpired portion thereof. Students entering after the opening of the semester are charged pro rata, except that no allowance will be made on account of absence from the first week in any semester.

No deduction will be made for lessons missed, nor will such lessons be made up. In case of serious illness, special arrangements will be made by the department. No lessons lost because of University holidays will be made up.

On withdrawal from the University, refunds for private instruction will be made in accordance with the requirements under "Refunds of Fees" in Part I.

All students will be required to do their practicing in the regular practice rooms of Music Hall, Music Hall Annex, Bartley Cottage, and Center Cottage, unless special permission is given to practice elsewhere.

MUSIC TUITION

The following is a table of fees per semester for lessons in applied music, payable at the bursar's office and subject to the rules stated under "Departmental Regulations."

PIANO, VOICE, VIOLIN, CELLO, ORGAN	
One lesson a week, one-half hour.....	\$30.00
Two lessons a week, one-half hour each.....	60.00
INSTRUMENTS OF THE BAND AND ORCHESTRA	
One lesson a week, one-half hour.....	\$30.00
Two lessons a week, one-half hour each.....	60.00
PRACTICE-ROOM RENTAL (WITH PIANO)	
One hour a day for the semester.....	\$ 4.00
Two hours a day for the semester.....	7.00
Three hours a day for the semester.....	11.00
PRACTICE-ROOM RENTAL (WITHOUT PIANO)	
One hour a day for the semester.....	\$2.00
Two hours a day for the semester.....	3.00
Three hours a day for the semester.....	4.00

PHILOSOPHY

Professor CHENOWETH, Mrs. MONTGOMERY

Primarily for Undergraduates

51 History of Ancient Philosophy 3 credits First semester

A general study of the development of thought from Thales to Descartes, with especial reference to the origin of the concepts which are commonly used in the expression of modern thought. Particular attention is given to the method of Socrates and the systems of Plato and Aristotle. Open to Sophomores, Juniors, and Seniors. (CHENOWETH)

52 History of Modern Philosophy 3 credits Second semester

A study of the development of thought from Descartes to the present time. Emphasis is placed on the relation of the various movements in philosophy to the formation of modern systems. Prerequisite: Phil. 51. (CHENOWETH)

For Advanced Undergraduates and Graduates

101 Ethics 3 credits First semester

A brief treatment of the various stages in the development of ethical thought, with the object of deriving a standard for the government of moral conduct. Prerequisite: Phil. 51. (CHENOWETH)

102 Ethics (Advanced) 3 credits Second semester

A comparative study of ethical theories and the application of the moral criterion to present day problems. Prerequisite: Phil. 101. (CHENOWETH)

103 Logic 3 credits First semester

The laws of thought, studied with a view to their use in the organization of the results of everyday experience and scientific investigation.

Special attention is given to the function of logic in the methods of science. Prerequisite: Phil. 51, or equivalent. (CHENOWETH)

104 Contemporary Philosophy 3 credits Second semester

A critical study of the persistent problems in Philosophy, including various phases of pluralism and monism, idealism and materialism, evolution and related problems. Prerequisite: Phil. 51, or equivalent. (CHENOWETH)

105 Philosophy of Religion 3 credits Second semester

An examination of the fundamentals of the different world religions, with the object of determining the place of the religious consciousness in life. Prerequisite: Phil. 51. (CHENOWETH)

106 The State and the Individual 3 credits First semester

A study of the ethical principles applicable to the various activities of the individual in connection with the state. Prerequisite: Phil. 51 or equivalent. (CHENOWETH)

107 Philosophy in Literature 3 credits First semester

The development of Philosophy is studied in connection with its expression in literature. Prerequisite: Phil. 51, or equivalent. (CHENOWETH)

110 Philosophy of Science 3 credits Second semester

A study of the various philosophic bases which are presupposed in science. Prerequisite: Phil. 51, or equivalent. (CHENOWETH)

Primarily for Graduates

201-202 Advanced Philosophy 2 to 4 credits Each semester

An investigation of a general problem in Philosophy, selected at the beginning of each semester by the instructor in consultation with the members of the class. Each student is required to present to the class one or two reports covering the results of a considerable amount of research in connection with a particular phase of the general problem. Open to graduates and majors in the department. (CHENOWETH)

203-204 Seminar in Philosophy Not to exceed 2 credits Each semester

Problems in research are carried on in the course and their results presented from time to time for discussion. Open to graduates and advanced students in Philosophy. (CHENOWETH)

205-206 Research 4 credits Each semester
(CHENOWETH)

208 Plato 3 credits Second semester

The *Republic* and *Laws* are read in translation, with special reference to Plato's theory of government. Open to graduates and advanced students in Philosophy. (CHENOWETH)

PHYSICAL EDUCATION FOR MEN

Professors CALLAND and HUTCHINSON, Associate Professors Fox and
ANDERSON, Mr. JACOBY

The Department of Physical Education and Athletics for Men unites the interests that promote the physical well-being of all the men on the campus. Required Freshman and Sophomore classes, intercollegiate athletics, intramural athletics, and teachers' training courses are offered.

Physical and medical examinations are required of all students on matriculation. Freshmen who are unable to satisfy departmental requirements as to posture and general health are required to register in restricted Physical Education classes.

All freshmen and sophomores are required to spend a minimum of one hour a week in some form of physical activity. The class work is designed to supplement the activities of the Military department.

A course of study in which the department cooperates with the School of Education offers instruction for prospective teachers of physical education, coaches, or playground supervisors. Those desiring to register in this course should consult the director.

Every man in the University is encouraged to enter the intramural and intercollegiate activities promoted by the department.

REQUIRED COURSES

Primarily for Undergraduates

- *31-32 Freshman Sports** $\frac{1}{2}$ credit Each semester
Required of Freshmen. One hour a week. Instruction and participation in floor work and class athletics. Practice is provided in team games and individual activities. Final credit in the course depends upon passing a satisfactory swimming test. (STAFF)
- *33-34 Sophomore Sports** $\frac{1}{2}$ credit Each semester
Required of Sophomores. One hour a week. Students are required to elect one of the following activities, swimming and life saving, boxing, wrestling, tennis, handball, golf, fencing, horseshoes, gymnastics, basketball, track (*spring*), cross country (*fall*). (STAFF)
- 35-36 Restricted Physical Education** $\frac{1}{2}$ credit Each semester
Special course required of Freshmen who are unable to take regular class work. Students are given individual attention for corrective and recreational activities suited to their needs. Substitute for P.E. 31 and 32. (HUTCHINSON)

ELECTIVE COURSES

Primarily for Undergraduates

- 41-42 Freshman Activities** 2 credits Each semester
Required for Freshman majors. May substitute for P.E. 31-32. One lecture and three practice hours a week. Theory and practice in gym-

*Not more than one-half credit can be secured in each of the following: P.E. 31, 32, 33, or 34. Only one of these courses can be taken in any semester.

nastic activities, tumbling, group games, light and heavy apparatus.
(HUTCHINSON)

- 43-44 Sophomore Activities** 2 credits Each semester
Required of Sophomore majors. May substitute for P.E. 33-34. One lecture and three practice hours a week. Theory and practice in calisthenic drills, swimming and life saving, and minor sports. Prerequisite: P.E. 41-42. (ANDERSON)
- 47 History of Physical Education** 2 credits First semester
Required of Freshman majors. Two-hour lecture course in the development of the physical education movement, its rise and fall through the various stages of history with special emphasis on the modern trend in the United States. (ANDERSON)
- 48 Principles of Physical Education** 2 credits Second semester
Required of Freshman majors. Two-hour lecture course seeking to cultivate a favorable attitude for a professional study of physical education. The ideals and aims of physical education, and the relation of physical education to school and society are stressed. (CALLAND)
- *81 Football Participation** 1 credit First semester
For men who wish to receive practical instruction on the field in football from a coach's viewpoint. Not open to Freshmen. (CALLAND)
- *82 Baseball Participation** 1 credit Second semester
For men who wish to receive practical instruction on the field in baseball from a coach's viewpoint. Not open to Freshmen. (FOX)
- *83 Basketball Participation** 1 credit First semester
For men who wish to receive practical instruction on the court in basketball from a coach's viewpoint. Not open to Freshmen or Sophomores. (FOX)
- *84 Track Participation** 1 credit Second semester
For men who wish to receive practical instruction on the field in track from a coach's viewpoint. Not open to Freshmen or Sophomores. (ANDERSON)

For Advanced Undergraduates and Graduates

- 131-132 Technique of Teaching Activities** 1 credit Each semester
Three hours' practice in the methods of instruction in gymnastic drills, light and heavy apparatus, and class activities. Sample lessons prepared and taught under supervision of the instructor. Prerequisites: P.E. 41-42 and 43-44. (JACOBY)
- 136 Corrective Physical Education** 2 credits Second semester
One hour of lecture and three hours of practice in the methods of instruction in medical gymnastics. Sample lessons prepared and taught

*Not more than one credit can be secured in each of the following: P.E. 81, 82, 83, or 84. Only one of these courses may be taken in any semester.

under supervision of the instructor. Prerequisite: Zool. 6. (ANDERSON)

141 Theory of Coaching Track and Basketball

2 credits

First semester

Two-hour lecture course in the methods of coaching track and basketball teams. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Prerequisites: P.E. 83 and 84. (ANDERSON, FOX)

142 Theory of Coaching Football and Baseball

2 credits

Second semester

Two-hour lecture course in the methods of coaching football and baseball teams. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Prerequisites: P.E. 81 and 82. (CALLAND, FOX)

181 Physical Education Tests and Measurements

2 credits

First semester

A study of the general historical background and the need for and use of tests in physical education. Elementary statistical methods, scoring methods, how to build tests, administration of tests, and their use in classification and placement. Prerequisite: Psych. 1, and Junior standing. (JACOBY)

184 Playground and Community Recreation

2 credits

Second semester

A study of the promotion and organization of recreational activities, the nature and function of play, stages of growth and adaptation of activities, construction, equipment, and supervision of playgrounds. Prerequisites: P.E. 41-42 and 43-44. (CALLAND)

185 Physiology of Exercise 2 credits

First semester

A course in which the effects of exercise upon the different organs, muscles, structure, and functions of the body is studied so that the ideals and aims of exercise can be taught and carried out in a wholesome manner. Prerequisite: Zool. 6 and Junior standing. (HUTCHINSON)

188 First Aid

2 credits

Second semester

A course in first aid and emergencies, with special emphasis on athletic injuries and their care. Students qualify for a Red Cross certificate. Prerequisite: P.E. 185. (HUTCHINSON)

196 Organization and Administration 3 credits

Second semester

The organization of a staff, of programs, constructing the gymnasium, arrangement and care of equipment, care and administration of courts, tanks, and fields, and general problems of supervision of a physical education department. Prerequisite: P.E. 131-132. (CALLAND)

PHYSICAL EDUCATION FOR WOMEN

Associate Professor WIRT, MISS LOCKE, MISS HALL
Professors CALLAND and HUTCHINSON

Work in this department is required of Freshmen and Sophomores. Juniors and Seniors are encouraged to continue by electing additional courses which will give credit toward graduation. A major course in Physical Education for Women leading to the degree of Bachelor of Science in Education is outlined in the curriculum of the School of Education. Those registering in this course should advise with the Director of Physical Education for Women. A minor in Physical Education with a major in the College of Letters and Science, leading to a Bachelor of Arts degree, may also be outlined upon conference with the Head of the department in which the student majors and with Associate Professor Wirt. P.E. 125-126 and P.E. 127-128 are absolutely essential to minor curriculum.

Freshmen bringing high-school credit for Physical Education which has been approved by the Department of Physical Education for Women, and all Sophomores, may elect P.E. 9-10, 13-14, 51-52, 55-56, 57-58, 59-60, or, with special permission from the instructor, P.E. 109-110, or 117-118, to fulfill their requirements in practical work in Physical Education.

*Primarily for Undergraduates***1-2 Freshman Course** 2 credits Each semester

Three hours a week. The work of this course is arranged with reference to the needs of the individual students as indicated by the physical examination and study of personal tendencies. It includes (a) *Elementary Gymnastics*; two hours a week of gymnastics, folk and character dancing, games, and sports' techniques, and (b) *Personal Hygiene*: one class discussion a week on problems of personal hygiene. (WIRT, LOCKE)

9-10 Beginning Dancing 1 credit Each semester

Introduction to natural, national, and character dancing. Instructor should be consulted before securing the required costume. Two practice hours a week. (WIRT)

13-14 Beginning Swimming 1 credit Each semester

For those who cannot swim, or who have not been instructed in correct form. Sheffield method taught, with emphasis on correct breathing, attainment of self-confidence, the floating positions, elementary back stroke, sculling, deep-water test, the side stroke, and simple diving. Two hours a week. (HALL)

47 History of Physical Education 2 credits First semester
See Physical Education for Men.**51 Danish Gymnastics** 1 credit First semester

A modification of the so-called primitive or fundamental gymnastics of Neils Bukh. A system demanding alternation of very strenuous and relaxed movements, with emphasis upon those which obtain flexibility and suppleness. Two hours a week. (LOCKE)

52 Apparatus and Tumbling 1 credit **Second semester**

To follow P.E. 51. Practice in individual, partner, and group stunts, pyramid building, apparatus work on flying rings, traveling rings, window ladder, climbing rope, etc. One day a week. Tumbling one day a week. (LOCKE, HUTCHINSON)

55-56 Intermediate Swimming 1 credit **Each semester**

Continuation of beginners' course with addition of single over-arm, trudgen, trudgen crawl, and breast strokes; water stunts, diving and some Red Cross life saving. Two hours a week. Prerequisite: P.E. 13-14, or passing of test to determine preparation for this course. (HALL)

57-58 Individual and Leisure Time Sports 1 credit **Each semester**

Practice in activities which can most easily be continued in after school life. Horseshoes, tennis, ping pong, badminton, deck tennis or tenni-quoits, archery, golf, track and field athletics. Equipment for golf and tennis must be provided by the registrants. Two hours a week. (HALL)

59-60 Women's Athletics 1 credit **Each semester**

Coaching in volley ball, basketball, soccer, and baseball with the regular class practices for candidates for teams. Those who are elected to teams and play in the inter-class tournaments may win 100, 50, or 25 points in the Women's Athletic Association. Two hours a week. Prerequisite: P.E. 1-2 or equivalent. (LOCKE)

*For Advanced Undergraduates and Graduates***102 Playground Supervision 2 credits** **Second semester**

In addition to the technical knowledge and skill required by the director of a playground, this course is designed to give a broad view of the other influences at work in this field and to show the possibilities of play as an educational force in the community. Three class periods a week. (HALL)

106 Pageantry and Festivals 2 credits **Second semester**

Two lecture hours a week. This course includes a study of festival material adapted to school and playground use. The formation of pageant committees and study of their duties. Study of costuming, and original continuities for pageants. (HALL)

109-110 Advanced Dancing 1 credit **Each semester**

Continuation of beginning dancing, with emphasis on method of teaching dancing, study of sources, and practice in composition of original dances by the members of the class. Two hours a week. Prerequisite: P.E. 9-10. (WIRT)

- 111-112 Clog Dancing** 1 credit Each semester
This course does not fulfill requirement for either of the two years of practical work. It is to be taken as an additional elective only. Two hours a week. Prerequisites: P.E. 1-2 or equivalent; (P.E. 9-10 desirable). (WIRT)
- 113 The Teaching of Hygiene** 2 credits First semester
A study of the project and informal discussion methods of making the rules of hygiene of significance to high school girls. Two hours a week. Prerequisite: P.E. 1b and 2b. (WIRT)
- 114 Teaching of Simple Rhythms and Folk Dancing** 1 credit Second semester
Methods of teaching kindergarten and primary rhythms and folk dances, with a knowledge of typical folk dances of different countries. Two hours a week. (WIRT)
- 117-118 Advanced Swimming** 1 or 2 credits Each semester
Continuation of P.E. 13-14 and 55-56, with the addition of the crawl, back racing stroke, more difficult stunts, and diving. One credit granted for two hours a week of practical work; one additional credit for assistance in teaching other classes. Prerequisites: P.E. 13-14 and 55-56, or equivalent. (HALL)
- 121 Teaching of Individual Gymnastics** 2 credits First semester
Technique of giving physical examinations and the prescription of proper remedial exercises. Two hours a week. (HALL)
- 125-126 Management of Women's Athletics** 2 credits Each semester
Theory and practice in coaching team games for use in playgrounds, public schools, high schools, and camps. Two lecture periods and two hours' practice teaching. Prerequisite: P.E. 59-60. (LOCKE)
- 127-128 Methods of Gymnastic Teaching** 2 credits Each semester
Methods of teaching gymnastics. Three class periods a week. Prerequisites: P.E. 1-2, 3-4, 9-10. (Not given in 1932-33.) (WIRT)
- 129 Practice Teaching in Gymnastics** 3 credits First semester
Fifty-four hours' teaching gymnastics under supervision. Prerequisite: P.E. 128. (WIRT)
- 188b First Aid** 2 credits Second semester
First aid and emergencies, with special emphasis on athletic injuries and their care, qualifying for the Red Cross certificate in first aid. Two hours a week. Prerequisite: Zool. 6. (HUTCHINSON)
- Organization and Administration** 3 credits Second semester
See P.E. 196, Physical Education for Men. (CALLAND)

PHYSICS

Professor HAMMAR, Assistant Professors LUKE and STAUFFER

*Primarily for Undergraduates***1 Elementary Physics** 4 credits Either semester

A course for students who have not had high-school physics. Three lectures, one three-hour laboratory period, and one recitation period a week. (STAUFFER)

3-4 General Physics 4 credits Each semester

Three lectures, one three-hour laboratory period, and one recitation period a week. Prerequisite: Phys. 1, or high-school physics, or the equivalent of Math. 1. (LUKE)

11-12 Engineering Physics 5 credits Each semester

This course is intended for students in the physical sciences and in engineering and must be preceded or accompanied by the calculus. Three lectures and two three-hour laboratory periods a week. Prerequisite: Phys. 1, or high-school physics. (HAMMAR, LUKE)

54 Music and Sound 4 credits Second semester

This course, intended for music students, deals with the physical basis of music and with the analysis of musical sound. Three lectures and one three-hour laboratory period a week. (STAUFFER)

*For Advanced Undergraduates and Graduates***105-106 Meteorology** 3 credits Each semester

A broad survey of the physics of the atmosphere. Prerequisite: Phys. 3-4, or 11-12.

110 Teaching of Physics 3 credits Second semester

The equipment and management of laboratories; the content and organization of subject matter. A set of class demonstrations is worked out and performed by each student. Prerequisite: Phys. 3-4, or 11-12. (LUKE)

121-122 Analytical Mechanics 3 credits Each semester

Statics, kinematics, and dynamics. Prerequisites: Phys. 3-4, or 11-12; Math. 51. (HAMMAR)

131-132 Electricity and Magnetism 2 credits Each semester

Prerequisites: Phys. 3-4, or 11-12; Math. 51-52. (STAUFFER)

133-134 Electrical Measurements 2 credits Each semester

Intended to accompany Phys. 131-132. Two three-hour laboratory periods a week. Prerequisites: Phys. 3-4, or 11-12; Math. 51-52. (STAUFFER)

141 Advanced Light 4 credits First semester

Prerequisites: Phys. 3-4, or 11-12; Math. 51. (HAMMAR or STAUFFER)

152 Advanced Heat 3 or 4 credits Second semester
Prerequisites: Phys. 3-4, or 11-12; Math. 51-52. (HAMMAR)

161-162 Pro-Seminar 2 credits Each semester
A study of important topics in advanced physics. Prerequisites: Phys. 121-122; 141; 152.

191-192 Modern Physics 4 credits Each semester
A review of the fundamentals of physics, and an introduction to modern theories of atomic structure, radiant energy, and relativity. Prerequisites: Phys. 3-4, or 11-12; Math. 51-52. (HAMMAR)

Primarily for Graduates

201-202 Research 3 to 5 credits Each semester
Investigation of experimental or theoretical nature under supervision of an instructor. Admission to this course is subject to the approval of the Physics department. (HAMMAR)

221-222 Advanced Mechanics 4 credits Each semester
A mathematical treatment of the dynamics of rigid bodies, hydrodynamics, and elasticity. Prerequisite: Phys. 121-122. (HAMMAR)

241 Kinetic Theory 3 credits First semester
A mathematical study of molecules and their motion. Prerequisites: Phys. 121-122; 152. (HAMMAR)

261-262 Seminar 2 credits Each semester
A study of topics from recent research. Admission to this course is subject to the approval of the Physics department.

PLANT PATHOLOGY

Professor HUNGERFORD, Associate Professor RAEDER, Miss REMSBERG

For Advanced Undergraduates and Graduates

101 General Plant Pathology 3 credits First semester
A study of plant diseases due to bacteria, slime molds, fungi, and non-parasitic causes. Includes a study of causes, symptoms, effects, means of dissemination, and principles of control. Prerequisite: Bot. 1-2, or Bot. 11. One lecture and two laboratory periods weekly. (HUNGERFORD and staff)

102 Methods in Plant Pathology 2 credits Second semester
Greenhouse and laboratory studies of bacterial and fungous diseases of plants, including cultural methods, isolation, inoculation, spore germination, etc. Two laboratory periods weekly. Prerequisites: P.P. 101 and Bact. 101. (REMSBERG)

103 Diseases of Field Crops 2 credits First semester
A study of the various diseases of field crops with especial emphasis upon those of economic importance in Idaho. Among the principal field

crops covered are: small grains, corn, potatoes, beans, sugar beets, alfalfa, clover, etc. One lecture and one laboratory period weekly. Prerequisite: P.P. 101. (HUNGERFORD, RAEDER)

104 Fruit Diseases 2 credits Second semester

Various diseases of both tree and small fruits, special emphasis being placed upon non-parasitic diseases of both these groups. Lectures, reference readings, and reports upon assigned topics. Two lectures weekly. Prerequisite: P.P. 101. (HUNGERFORD)

105 Potato Diseases and Their Control 1 credit First semester

The nature and control of the principal diseases of the Irish potato common in Idaho. No text will be used but assignments will be made in various texts and bulletins. One lecture weekly. Prerequisite: P.P. 101. (RAEDER)

Forest Pathology 2 credits Second semester

See Forestry 164. Arrangements have been made whereby credit in plant pathology will be given for this course listed in the Forestry Curriculum.

Primarily for Graduates

201-202 Seminar 1 credit Each semester

(HUNGERFORD)

203-204 Research Credits to be arranged Each semester

(HUNGERFORD, RAEDER)

POLITICAL SCIENCE

Professor KERR, Mr. CHAMBERLAIN

Professor RETHERFORD

Primarily for Undergraduates

51-52 American Government 3 credits Each semester

A consideration of the organization, functions, and present-day problems of the American Federal Government. This course is a prerequisite to all advanced courses in Political Science. (KERR, CHAMBERLAIN)

For Advanced Undergraduates and Graduates

123 State Government 3 credits First semester

An analysis of American State Government. Emphasis upon executive budget, administrative consolidation, relation of the State to Federal Government. Includes a study of Idaho State government. Prerequisite: Pol.Sc. 51-52. (KERR)

124 City and County Government 3 credits Second semester

A study of the organization, functions, administration, and special problems of the local units of government in the United States. Prerequisite: Pol.Sc. 51-52. (KERR)

- 125 Comparative Government** 3 credits First semester
A study of the organization, functions, administration, and special systems of the leading countries of the world. The recent changes in the governmental system of continental Europe. Prerequisite: Pol.Sc. 51-52. (KERR)
- 126 Theory of the State** 3 credits Second semester
A study of the leading political theories from the earlier stages of civilization to the present. Emphasis on the modern theories of the state. Prerequisite: Pol.Sc. 51-52. (KERR)
- 132 Political Parties and Party Politics** 2 credits Second semester
A critical study of the principal problems of politics and political parties. The party machines, the spoils system, nominating methods, conduct of election, participation in politics. Prerequisite: Pol.Sc. 51-52. (KERR)
- 136 The American Constitution** 3 credits Second semester
A study of constitutional powers. Emphasis on powers of Congress, interstate commerce, governmental relation between the United States government and the states. The constitutional limitation for the protection of life, liberty, and property; the police power, taxation, eminent domain. Prerequisite: Pol.Sc. 51-52. (KERR)
- 137 International Relations** 3 credits First semester
The nature and importance of international relations, nationalism, militarism, diplomatic and administrative agencies of control, development of international organization, the League of Nations. Prerequisite: Pol.Sc. 51-52. (KERR)

Primarily for Graduates

- 211-212 Research in Political Science** 3 to 5 credits Each semester
(KERR)

POULTRY HUSBANDRY

Professor LAMPMAN, MR. WILLIAMS

Primarily for Undergraduates

- 1 Introductory Survey** 1 credit First semester
This course is given in conjunction with Animal Husbandry 1. (LAMPMAN)

For Advanced Undergraduates and Graduates

- 101 Market Grades and Standards** 2 credits First semester
Factors influencing quality of poultry products; candling and grading eggs; classification and inspection of grades of market poultry; marketing agencies. One lecture and one laboratory weekly. (LAMPMAN)

- 102 Advanced Poultry Production** 3 credits Second semester
An advanced study of problems concerned with flock management and modern practices. Application of experimental data. Particularly adapted for major students of Animal Husbandry and Agricultural Education. Two lectures and one laboratory weekly. Prerequisite: P.H. 1. (LAMPMAN)
- 105 Advanced Breeding and Judging** 3 credits First semester
Exhibition and utility phases of breeding and judging. Breed and variety characteristics; practice in judging exhibition and utility poultry, and a study of the inheritance of standard-bred and utility qualities. Two lectures and one laboratory weekly. Prerequisite: P.H. 1. (LAMPMAN)
- 108 Incubation and Brooding** 3 credits Second semester
Principles involved in modern artificial methods. The embryonic development of the chick during incubation and the nutritional requirements of growing chicks receive special emphasis. One lecture and one recitation weekly. Laboratory consists of incubator operation. Prerequisite: P.H. 1. (LAMPMAN)
- 121-122 Special Problems** Credits to be arranged Each semester
(LAMPMAN, WILLIAMS)
- 123-124 Thesis** 1 credit Each semester
Primarily for Graduates
- 201-202 Research** Credits to be arranged Each semester
(LAMPMAN)

PSYCHOLOGY

Professor BARTON and LEMON, Mr. BOYER

The courses of this department are arranged in three different orders of sequence: for those who contemplate a business career; for those who hope to become teachers; and for those who care to specialize in Psychology.

Primarily for Undergraduates

- 1 General Psychology** 4 credits Either semester
Prerequisite to all other courses in psychology. The student will attempt to understand the underlying principles of human nature. The object of such study will be that of knowing how best to control what people think, feel, and do. Three lectures and one laboratory period each week. (BARTON)
- 2 Educational Psychology** 3 credits Second semester
Application of results of experimental psychology to teaching; including problems of inherited nature, learning, individual differences; measurement of mental traits. Prerequisite: Psych. 1. (LEMON)
- 4 Applied Psychology** 4 credits Second semester
The general nature of the human organism and the effects of environmental influences; advertising and salesmanship; selection of em-

ployees; evidences; testimony; helps in medical practice. Three lectures and one laboratory period a week. Prerequisite: Psych. 1. (BARTON)

54 Psychology of Advertising and Selling 3 credits Second semester

A consideration of the psychological factors involved in advertising and selling, and their relation to individual differences. Prerequisite: Psych. 1. (BARTON)

57 Psychology of the Exceptional Individual 3 crs. First semester

A diagnosis of the retarded and gifted humans, with a discussion of their needs and treatment. Prerequisite: Psych. 1. (BARTON)

For Advanced Undergraduates and Graduates

105 Comparative Psychology 3 credits First semester

A general survey of what has been done in an experimental way to determine the capacities, reactions, and general nature of lower animals in situations of controlled stimulation. Two lectures and one laboratory period a week. Prerequisites: Psych. 1 and 4, or equivalent. (LEMON)

106 Infant and Child Psychology 3 credits Second semester

Behavior problems and the psychological care of the young child. Prerequisites: Psych. 1 and 4, or equivalent. (LEMON)

115 Psychology of Employment and Handling of Employees

3 credits First semester

Analysis of the psychological factors involved in the interrelated activities of the worker and the management. Methods for developing and training workers; measures of active ability and proficiency; selection and placement. Prerequisites: Psych. 1 and 4, or equivalent. (BARTON)

117 Psychological Methods 3 credits First semester

A practical course in statistical methods as applied to psychology. The course includes measures of central tendency and dispersion; graphic methods; probability curve; correlations; reliability of statistical measures. Prerequisites: Psych. 1 and 4, or equivalent. (BOYER)

121-122 Advanced Psychology 4 credits Each semester

A survey of the leading problems, conceptions, methods, and results of modern psychology. Critical examination of present tendencies in textbooks. Three lectures and one laboratory period a week. Prerequisites: Psych. 1 and 4, or equivalent. (BARTON)

151 Psychology of High School Subjects 2 credits First semester

Specific application of educational psychology to the teaching of the subjects of the high school curriculum. Prerequisites: Psych. 1 and 2. (LEMON)

Primarily for Graduates

202 Advanced Educational Psychology 3 credits Second semester

An advanced course covering the field of educational psychology. Lectures, discussions, and reports on the experimental literature in the field. Prerequisites: Psych. 1 and 2, or equivalent. (LEMON)

- 203 Psychology of Criminality** 3 credits First semester
The nature, determination, causes and treatment of criminals with a view to their best interests and the safety of society. Prerequisites: Psych. 1 and 4, or equivalent. (BARTON)
- 206 Psychology of Learning** 3 credits Second semester
A more intense consideration of the factors conditioning the learning process; a searching study of the rôles of repetition, recency, primacy, feeling, fitness of material to past activity and to future needs. Prerequisites: Psych. 1 and 4, or equivalent. (LEMON)
- 207 Social Psychology** 3 credits First semester
Innate tendencies influenced by the behavior of one's fellows, and their organization into group attitudes of opposition and cooperation; the respective rôles of habit, custom, language, suggestion, imitation, and emotion and their relation to social progress. Prerequisites: Psych. 1 and 4, or equivalent. (BARTON)
- 208 Psychology in Ethics** 3 credits Second semester
An attempt to ascertain the part played by human nature in determining moral conduct. Relation of these considerations to the various ethical theories. Prerequisites: Psych. 1 and 4, or equivalent. (BARTON)
- 209 Mental, Personality and Character Testing** 3 credits First semester
Individual and group intelligence, personality and character testing, including a critical study of various tests and practice in their administration; use of test results in classification and treatment of pupils. Prerequisites: Psych. 1, 4, and 117. (LEMON)
- 210 Psychology of Religious Experiences** 3 credits Second semester
The origin of religion in the race, including primitive religions, customs and taboo, ceremonials and magic, spirits, sacrifice, prayer, mythology, and the development of religion racially and individually. (BARTON)
- 211 Abnormal Psychology** 3 credits First semester
The nature, causes, prevention, and treatment of functional and organic mental deficiency, and derangement. Prerequisites: Psych. 1 and 4, or equivalent. (BARTON)
- 212 Advanced Psychological Methods** 2 credits Second semester
The problems of partial and multiple correlation, partial regression, partial variation, weighing of scores, non-linear correlation, and the various reliability instruments will be considered. Prerequisite: Psych. 117 or its equivalent. (BOYER)
- 213-214 Seminar in Psychology** 1 credit Each semester
Reading and reports on the current literature of subjects chosen. Opportunity is also afforded for research students to present their problems for discussion and criticism. One meeting each week. (BARTON, LEMON)

215-216 Psychological Research 1 to 8 credits Each semester

Opportunity is given for students to do original work in some field of psychological investigation. Before registering, the student should consult the instructor. For Graduates only. (BARTON, LEMON)

Public Speaking

(See under English)

Religious Education

(For plan of work see Religious Education, Part I. For courses offered, see separate bulletins issued by Religious Institutes).

SOCIAL SCIENCE

Professor CHENOWETH

1-2 Contemporary Civilization 3 credits Each semester

An orientation course designed to give to beginning students an introduction to the economic, social, and political principles operative in modern social organization, together with the philosophy underlying them. Open to Freshmen and Sophomores. (CHENOWETH AND ASSOCIATES)

SOCIOLOGY

Professor KERR, Mr. CHAMBERLAIN

For Advanced Undergraduates and Graduates

141-142 Principles of Sociology 3 credits Each semester

Introduction to the nature and evolution of society. Emphasis on the social forces, laws of association, social progress. Problems of poverty, crime, charity, defectiveness. Social institutions; the family, the state, the school, the church. Not open to Freshmen or Sophomores. Prerequisite: six credits in approved courses in the Social Sciences. (KERR, CHAMBERLAIN)

145 Rural Sociology 3 credits First semester

A study of the rural social problems: education, religion, recreation, tenancy, health, the village; rural leadership. Prerequisite: Soc. 141-142, except by special permission. (KERR)

146 Immigration 3 credits Second semester

Problems of immigration. Emphasis on the social problems involved in the conflicting economic standards and cultures in the United States. Prerequisite: Soc. 141-142, except by special permission. (KERR)

Spanish

(See under Modern Languages)

ZOOLOGY

Professor STOUGH, Assistant Professor GLASS, Mr. STEFFENS, Mr. JOHNSON, Miss PECK, Miss REGAN

Primarily for Undergraduates

- 1-2 General Zoology** 4 credits Each semester
The general problems of animal structures, physiology, activities and adaptations, sex, development, heredity, evolution, and life-histories of representative and economic forms. Two lectures and two three-hour laboratory periods a week. (STOUGH, STEFFENS, JOHNSON, PECK, RAGAN)
- 4 Comparative Anatomy of Vertebrates** 4 credits Second semester
Dissection and study of types of vertebrates, together with lectures and discussions on general vertebrate anatomy with special reference to the evolution of the various organ systems. Two lectures and two three-hour laboratory periods a week. Prerequisite: Zool. 1-2. (STOUGH, STEFFENS, RAGAN)
- 6 Physiology** 3 credits Second semester
Designed to give a general knowledge of the more important physiological problems, and of the structure and functions of the human body. Two recitations and one three-hour laboratory period a week. Prerequisite: Zool. 1, or Bot. 1. (GLASS)
- 53 Invertebrate Zoology** 4 credits First semester
Not offered 1932-33.
- 58 Heredity and Eugenics** 2 credits Second semester
A scientific study of the main facts and theories of heredity and its mechanism, with emphasis on the phases pertaining to human welfare. Two lectures a week. Prerequisite: Zool. 1-2, or Bot. 1-2, or Senior College standing. (GLASS)
- 60 Social Hygiene (Women)** 2 credits Second semester
Not offered 1932-33.
- 68 Ornithology** 3 credits Second semester
Not offered 1932-33.
- 70 Social Hygiene (Men)** 2 credits Second semester
Not offered 1932-33.

For Advanced Undergraduates and Graduates

- 101 The Teaching of Zoology** 2 credits First semester
Not offered 1932-33.

103-104 Human Anatomy 2 credits Each semester

A study of the general structure of the human body through mammalian dissection, charts, models, dissectible mannikin and human skeletons. For Pre-Nursing students and majors in Physical Education. Recommended to others, particularly to those majoring in Home Economics, Psychology, and Education. Should be taken along with Zool. 105-106. One lecture and one three-hour laboratory period a week. Prerequisites: Zool. 1-2 and 113. (GLASS)

105-106 Human Physiology 3 credits Each semester

A study of the various physiological functions of the human body. Required of Pre-Nursing students and Seniors in Pre-Medicine. Recommended to others, particularly to those majoring in Home Economics, Physical Education, Psychology, and Education who desire a more thorough course than Zool. 6. Should be preceded by, or be taken along with, Zool. 103-104. One lecture and two three-hour laboratory periods a week. Prerequisites: Zool. 1-2; Chem. 1-2. (GLASS)

107 Organic Evolution 3 credits First semester

A critical discussion of the facts and theories of organic evolution, and the general development of evolutionary speculation. Three lectures a week. Prerequisites: Zool. 1-2 and 4. (Zool. 113 is recommended.) (GLASS)

109 Vertebrate Histology and Organology 4 credits First semester

A study of the various tissues, followed by the study of the minute structure of the chief mammalian organs. Two lectures and two three-hour laboratory periods a week. Prerequisites: Zool. 1-2 and 4. (STOUGH, STEFFENS)

110 Histological Technique 2 credits Second semester

A laboratory course in the various techniques employed in animal histology, including methods of fixing, sectioning, staining, mounting, etc. Prerequisites: Zool. 1-2 and 4. (STEFFENS)

111 General Neurology 4 credits First semester

Not offered 1932-33.

113 Embryology 4 credits First semester

Lectures on general problems. The laboratory work deals with studies on maturation, fertilization, segmentation, and with serial sections and entire embryos of the chick, pig, and human being with reference to the origin of the various types of tissues and the development of the different organs. Two lectures and two three-hour laboratory periods a week. Prerequisites: Zool. 1-2 and 4. (STOUGH, STEFFENS)

115-116 Cytology 4 credits Each semester

A study of the animal cell with special emphasis on its relation to sex, genetics and evolution. Laboratory work in special technique and

study of principal cytological phenomena. Two lectures and two three-hour laboratory periods a week. Prerequisites: Zool. 1-2, 4, 113, and Chem. 1-2. (STOUGH, STEFFENS)

118 Parasitology 3 credits Second semester

Not offered 1932-33.

119-120 Thesis 1 to 3 credits Each semester

(STOUGH, GLASS)

151-152 Photographic Technique 2 credits Each semester

Photography as a scientific implement and aid in scientific and medical research. Enlarging, coloring, outdoor and nature photography, orthochromatic photography, X-ray photography, photomicrography, and color photography. One lecture and one three-hour laboratory or field-work period a week. Prerequisites: Zool. 1 or Bot. 1; and Chem. 1-2. (STOUGH)

161-162 Pro-Seminar 2 credits Each semester

An introduction to the methods of zoological research. Limited to Seniors majoring in Zoology. (STOUGH, GLASS)

Primarily for Graduates

201-202 Research Credits to be arranged Each semester

Problems will be assigned, and students prepared for independent investigation in any phase of Zoology will be given all the opportunities available for carrying on their work. (STOUGH, GLASS)

213-214 Advanced Morphology 2 credits Each semester

Not offered 1932-33.

216 Advanced Cytology 4 credits Second semester

Continuation of Zool. 115 for graduate students. Not open to students who have had Zool. 116. One lecture and three three-hour laboratory periods a week. (STOUGH)

261-262 Seminar 2 credits Each semester

Reports on advanced literature in the various phases of Zoology. Open to Graduate students only. (STOUGH, GLASS)

PART VI
Officers of the University

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Officers of the University

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Commissioner of Education

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MERVIN GORDON NEALE, PH.D.....	<i>President of the University</i>
JOHN ANTON KOSTALEK, PH.D.....	<i>Dean of the College of Letters and Science</i>
EDWARD JOHN IDDINGS, M.S.....	<i>Dean of the College of Agriculture</i>
	<i>Director of Agricultural Experiment Station, and</i>
	<i>Director of Extension Division</i>
IVAN CHARLES CRAWFORD, C.E.....	<i>Dean of the College of Engineering and</i>
	<i>Director of the Engineering Experiment Station</i>
WILLIAM EDWARD MASTERSON, S.J.D., LL.D.....	<i>Dean of the College of Law</i>
JOHN WELLINGTON FINCH, SC.D.....	<i>Dean of the School of Mines</i>
FRANCIS GARNER MILLER, M.F.....	<i>Dean of the School of Forestry</i>
JAMES FRANKLIN MESSENGER, PH.D.....	<i>Dean of the School of Education</i>
RALPH HUNTER FARMER, A.B.....	<i>Dean of the School of Business Administration</i>
CHARLES WILLIAM HUNGERFORD, PH.D.....	<i>Dean of the Graduate School,</i>
	<i>Assistant Dean of the College of Agriculture and</i>
	<i>Vice-Director of Agricultural Experiment Station</i>
THOMAS STONER KERR, LL.B.....	<i>Dean of the Junior College</i>
JOHN RUSKIN DYER, M.A.....	<i>Executive Dean of the Southern Branch (Pocatello)</i>
JAY GLOVER ELDRIDGE, PH.D.....	<i>Dean of the University Faculty</i>
PERMEAL JANE FRENCH, M.A.....	<i>Dean of Women</i>
KATHERINE JENSEN, M.S.....	<i>Director of the Home Economics Curriculum</i>
CARLETON CUMMINGS, M.M.....	<i>Director of the Music Curriculum</i>
FRANK STANTON, LL.B.....	<i>Bursar</i>
ELLA LETITIA OLESEN.....	<i>Registrar</i>
MARY BELLE SWEET, B.L.S.....	<i>Librarian</i>
OREN ARAM FITZGERALD, B.A.....	<i>University Editor</i>
RAYMOND W. LIND, B.S.(C.E.).....	<i>Superintendent of Buildings and Grounds and</i>
	<i>Purchasing Agent</i>
GEORGE ELMER HORTON, B.S.(E.E.).....	<i>Graduate Manager of Student Activities</i>
*FRANCIS JENKINS.....	<i>Proctor Emeritus</i>
†THEODORE WALLACE TURNER, B.S.(Ed.).....	<i>Proctor</i>
ROBERT FULTON GREENE.....	<i>Acting Proctor</i>

*Died January 22, 1932.

†On leave 1931-32.

Faculty of the University

PROFESSORS, ASSOCIATE PROFESSORS AND ASSISTANT PROFESSORS

The figure following the name and degree of each officer, indicates the date of his first appointment to the staff of the University.

- MERVIN GORDON NEALE, Ph.D., *President of the University*
B.S.(Ed.), University of Missouri; A.M., Ph.D., Teachers College (Columbia). 1930.
- ALFRED LEONARD ANDERSON Ph.D., *Professor of Geology*
B.S.(Chem.E.), M.S.(Geol.), University of Idaho; Ph.D., University of Chicago. 1928.
- OTTO KENNETH ANDERSON, B.S.(Ed.), *Associate Professor of Physical Education and Athletics for Men*
B.S.(Ed.), University of Southern California. 1929.
- CLIFFORD OAKLEY ARMSTRONG, M.D., *University Physician*
B.S., M.D., University of Illinois. 1926.
- CLAUDE WILLIAM ASHEY, M.A., *Assistant Professor of Modern Languages*
B.A., M.A., University of Idaho. 1925.
- FLOYD WARNICK ATKESON, M.S.(Agr.), *Professor of Dairy Husbandry, and Dairy Husbandman, Agricultural Experiment Station*
B.S.(Agr.), University of Missouri; M.S.(Agr.), Kansas Agricultural College. 1921.
- HAROLD LUCIUS AXTELL, Ph.D., *Professor of Classical Languages*
A.B., Kalamazoo College; A.B., A.M., Ph.D., University of Chicago. 1902.
- BERENICE BARNARD, B.M., *Assistant Professor of Music*
B.F.A., B.M., University of Nebraska. 1931.
- JOSEPH WESLEY BARTON, Ph.D., *Professor of Psychology and Head of the Department of Psychology*
B.S., University of Utah; Ph.D., Peabody College. 1920.
- ROSCOE ERNEST BELL, M.S.(Agr.), *Assistant Professor of Agronomy, and Soil Technologist, Agricultural Experiment Station*
B.S.(Agr.), M.S.(Agr.), Washington State College. 1931.
- JACOB ROY BENDER, M.S., *Assistant Professor of Mathematics*
A.B., Ohio University; M.S., University of Washington. 1921.
- HOBART BERESFORD, B.S.(Agr.Engr.), *Professor of Agricultural Engineering, and Agricultural Engineer, Agricultural Experiment Station*
B.S.(Agr.Engr.), Iowa State College. 1924.
- ELMER FREDERICK BETH, M.A., *Assistant Professor of Journalism*
B.A., M.A., University of Wisconsin. 1930.
- *WAYNE MELVILLE BEVER, M.S.(Agr.), *Junior Pathologist, U.S.D.A., Agricultural Experiment Station*
B.S.(Agr.), M.S.(Agr.), University of Idaho.
- CORNELIUS JAMES BROSNAN, Ph.D., *Professor of American History and Head of the Department of American History*
A.B., University of Michigan; M.A., Harvard University; Ph.D., University of California. 1921.
- JESSE EVERETT BUCHANAN, M.S.(C.E.), *Assistant Professor of Civil Engineering, and Testing Engineer, Materials Testing Laboratory*
B.S.(C.E.), M.S.(C.E.), University of Idaho. 1927.
- LOUIS CLYDE CADY, M.S. *Assistant Professor of Chemistry*
B.S.(Chem.E.), M.S., University of Idaho. 1922.
- LEO BLAKELEY CALLAND, A.B., *Professor of Physical Education and Athletics, Football Coach, and Head of the Department of Physical Education and Athletics for Men*
A.B., University of Southern California. 1929.
- ISAAC NEWTON CARTER, C.E., *Assistant Professor of Civil Engineering*
B.S.(C.E.), M.S.(C.E.), C.E., University of Idaho. 1923.
- CURTISS WORTH CHENOWETH, M.A., *Professor of Philosophy and Head of the Department of Philosophy*
B.A., Wesleyan College of West Virginia; M.A., Harvard University. 1919.
- EDWARD ROBERT CHRISMAN, General, U.S. Army, *Professor of Military Science and Tactics, and Commandant of Cadets*
Graduate, U.S. Military Academy. 1894.

*In cooperation with the U.S. Department of Agriculture.

- FREDERICK CORSS CHURCH, PH.D., *Professor of European History and Civilization, and Head of the Department of European History*
A.B., Ph.D., Cornell University. 1921.
- ISABEL WADSWORTH CLARK, *Assistant Professor of Music*
Graduate, New England Conservatory of Music. 1921.
- CARL CLAUS, *Assistant Professor of Music*
Graduate, Belgian Conservatory of Music. 1922.
- WILLIAM HOMER CONE, M.S., *Assistant Professor of Chemistry*
B.S., M.S., University of Idaho. 1924.
- GEOFFREY GAINSBROUGH COOPE, M.A., *Assistant Professor of English*
B.A., University of British Columbia; M.A., University of California. 1927.
- IVAN CHARLES CRAWFORD, C.E., *Professor of Civil Engineering, Dean of the College of Engineering, and Director of the Engineering Experiment Station*
B.S.(C.E.), C.E., University of Colorado. 1923.
- CARLETON CUMMINGS, M.M., *Professor of Music and Head of the Department of Music*
B.M., M.M., Bush Conservatory of Music. 1929.
- JOHN HOUSTON CUSHMAN, M.A., *Professor of English and Dramatics*
B.A., Brown University; M.A., Harvard University. 1919.
- ELMER EDGAR DAVISON, M.B.A., *Assistant Professor of Business Administration*
B.B.A., M.B.A., University of Washington. 1930.
- REUBEN ARTHUR DIETERT, M.S., *Assistant Professor of Botany*
B.A., DePauw University; M.S., Michigan State College. 1927.
- DONALD DUDLEY DUSAULT, M.S., *Assistant Professor of Chemistry*
B.S., M.S., University of Idaho. 1923.
- JOHN RUSKIN DYER, M.A., *Executive Dean of the Southern Branch (Pocatello)*
A.B., Ohio State University; M.A., University of Kansas. 1929.
- JOHN HARRY EINHOUSE, M.D., *University Physician*
B.S., University of Idaho; M.D., University of Louisville. 1926.
- PAUL AXLE CLARENCE EKE, PH.D., *Agricultural Economist, Agricultural Experiment Station*
B.S.(Agr.), M.S.(Agr.Econ.), Ph.D., University of Wisconsin. 1929.
- JAY GLOVER ELDRIDGE, PH.D., *Professor of Modern Languages, Head of the Department of Modern Languages, and Dean of the University Faculty*
B.A., M.A., Ph.D., Yale University. 1901.
- ARTHUR WILLIAM FAHRENWALD, MET.E., *Professor of Metallurgy and Ore Dressing*
B.S.(Met.), Met.E., South Dakota School of Mines; E.M., New Mexico School of Mines. 1929.
- RALPH HUNTER FARMER, A.B., *Professor of Business Administration and Economics, and Dean of the School of Business Administration*
A.B., Oberlin College. 1927.
- JOHN WELLINGTON FINCH, Sc.D., *Professor of Geology, Dean of the School of Mines, and Director of the Idaho Bureau of Mines and Geology*
B.A., M.A., Sc.D., Colgate University. 1930.
- OREN ARAM FITZGERALD, B.A., *University Editor*
B.A., University of Idaho. 1927.
- *VICTOR HOMER FLORELL, PH.D., *Associate Agronomist, Cereal Crops and Diseases, Agricultural Experiment Station*
B.S., B.Sc., B.S.(Agron.), Kansas Agricultural College; M.S., Ph.D., University of California. 1930.
- RICHARD ANTHONY FOX, B.S.(Agr.), *Associate Professor of Physical Education and Athletics for Men*
B.S.(Agr.), University of Idaho. 1927.
- PERMEAL JANE FRENCH, M.A., *Dean of Women*
M.A., University of Idaho; M.A., George Washington University. 1908.
- FLOYD WHITNEY GAIL, PH.D., *Professor of Botany and Head of the Department of Botany*
B.A., M.A., University of Nebraska; Ph.D., University of Washington. 1913.
- FULTON GILBREATH GALE, B.S., *Supervisor of Practice Teaching*
B.S., Whitman College. 1925.
- †MAUDE GARNETT, *Assistant Professor of Public School Music*
Graduate, American Institute of Normal Methods. 1924.
- HENRY FALLENSTEIN GAUSS, M.E., *Professor of Mechanical Engineering and Head of the Department of Mechanical Engineering*
B.S.(M.E.), M.E., Washington University. 1925.

*In cooperation with the U.S. Department of Agriculture.

†On leave 1931-32

- ELTON MAURICE GILDOW, M.S., D.V.M., *Associate Professor of Veterinary Science, and Veterinarian, Agricultural Experiment Station*
B.S., D.V.M., State College of Washington; M.S., University of Wisconsin. 1929.
- LEROY CONRAD GLASS, M.A., *Assistant Professor of Zoology*
B.S., Purdue University; M.S., University of Wisconsin. 1930.
- ERWIN GRAUE, PH.D., *Associate Professor of Business Administration and Economics*
B.S., Ph.D., Cornell University. 1928.
- WILLIAM ALLEN HALE, Captain, Infantry, D.O.L., U.S. Army, *Assistant Professor of Military Science and Tactics*
Graduate, American College of Physical Education; Graduate, Infantry School of Arms. 1931.
- WILLIAM VERNE HALVERSEN, PH.D., *Professor of Bacteriology, and Bacteriologist, Agricultural Experiment Station*
B.S., Utah Agricultural College; M.S., Ph.D., Iowa State College. 1929.
- GUSTAF WILLIAM HAMMAR, PH.D., *Professor of Physics and Acting Head of the Department of Physics*
B.S., M.S., University of Idaho; Ph.D., California Institute of Technology. 1922.
- HARRY LYNN HENKLE, Captain, Infantry, D.O.L., U.S. Army, *Assistant Professor of Military Science and Tactics*
Graduate, Infantry School, Ft. Benning, Ga. 1930.
- DON HENRY HERRICK, M.A., *Assistant Professor of English*
A.B., M.A., University of Kansas. 1930.
- CUTHBERT WRIGHT HICKMAN, M.S.(AGR.), *Professor of Animal Husbandry, and Animal Husbandman, Agricultural Experiment Station*
B.S.(Agr.), University of Missouri; M.S.(Agr.), University of Idaho. 1914.
- CHARLES ELMER HOLLEY, PH.D., *Professor of Secondary Education*
A.B., A.M., Ph.D.; University of Illinois. 1930.
- BERT EARL HOPKINS, LL.B., *Associate Professor of Law*
Ph.B., University of Wisconsin; LL.B., Yale University. 1929.
- PENDLETON HOWARD, PH.D., *Professor of Law*
LL.B., University of Texas; A.B., A.M., Ph.D., Columbia University. 1929.
- JOHN WILBUR HOWARD, M.S.(C.E.), *Assistant Professor of Civil Engineering*
B.S.(C.E.), University of Colorado; M.S.(C.E.), University of Idaho. 1927.
- ARTHUR SYLVESTER HOWE, M.A., *Associate Professor of Modern Languages*
A.B., College of William and Mary; M.A., University of Idaho. 1922.
- *ERNEST EVERETT HUBERT, PH.D., *Professor of Forestry and Acting Dean of the School of Forestry*
B.S.(For.), M.S.(For.), University of Montana; Ph.D., University of Wisconsin. 1925.
- HAROLD WATKINS HULBERT, M.S.(AGR.), *Professor of Agronomy, and Agronomist, Agricultural Experiment Station*
B.S., Michigan Agricultural College; M.S.(Agr.), Iowa State College. 1917.
- ROBERT HARSH HULL, E.E., *Assistant Professor of Electrical Engineering and Acting Head of the Department of Electrical Engineering*
B.S.(E.E.), E.E., University of Colorado. 1929.
- CHARLES WILLIAM HUNGERFORD, PH.D., *Professor of Plant Pathology, and Plant Pathologist, Agricultural Experiment Station; Assistant Dean of the College of Agriculture; Vice-Director of the Agricultural Experiment Station; and Dean of the Graduate School*
B.S., Upper Iowa University; M.S., Ph.D., University of Wisconsin. 1919.
- RALPH FIELDING HUTCHINSON, *Professor of Physical Education for Men*
Princeton University. 1928.
- EDWARD JOHN IDDINGS, M.S., *Dean of the College of Agriculture, Director of the Agricultural Experiment Station, and Director of Extension*
B.S.(Agr.), M.S., Colorado Agricultural College. 1910.
- IDA INGALLS, M.A., *Assistant Professor of Home Economics*
B.A., University of Iowa; M.A., Columbia University. 1927.
- PAUL REY IHRIG, M.A., *Acting Assistant Professor of Art and Acting Head of the Department of Art and Architecture*
B.S., M.A., Trinity College, Connecticut. 1931.
- EDWARD CORNELIUS JAHN, PH.D., *Associate Professor of Forestry*
B.S., M.S., New York State College of Forestry at Syracuse University; Ph.D., McGill University. 1930.
- KATHERINE JENSEN, M.S., *Professor of Home Economics and Head of the Department of Home Economics*
B.S., North Dakota Agricultural College; M.S., University of Illinois. 1920.

*Acting Dean for second semester 1931-32 only.

- *FRANCIS JENKINS, *Proctor Emeritus*
1906.
- †JOHN HUGG JOHNSON, E.E., *Professor of Electrical Engineering and Head of the Department of Electrical Engineering*
B.A., E.E., University of Wisconsin. 1918.
- ‡GERHARD SANTOSHAM KEMPF, M.F., *Associate Professor of Forestry*
M.F., Harvard University. 1928.
- THOMAS STONER KERR, LL.B., *Professor of Political Science and Dean of the Junior College*
A.B., Indiana University; LL.B., University of Michigan. 1924.
- JOHN ANTON KOSTALEK, Ph.D., *Professor of Organic Chemistry and Dean of the College of Letters and Science*
B.A., M.A., University of Wisconsin; Ph.D., University of Illinois. 1911.
- MARK RUPP KULP, B.S.(C. & I.E.), *Assistant Professor of Agricultural Engineering, and Irrigationist, Agricultural Experiment Station*
B.S.(C. & I.E.), Colorado Agricultural College. 1930.
- CLIFFORD ELMER LAMPMAN, B.S.A., *Professor of Poultry Husbandry, and Poultry Husbandman, Agricultural Experiment Station*
B.S.A., University of Wisconsin. 1928.
- FRANCIS BAKER LANEY, Ph.D., *Professor of Geology*
B.S., Drury College; M.A., University of Wisconsin; Ph.D., Yale University. 1920.
- HERBERT ELMER LATTIG, M.S.(Ed.), *Professor of Agricultural Education*
B.S.(Agr.), M.S.(Ed.), University of Idaho. 1926.
- ALLAN CLARK LEMON, Ph.D., *Professor of Educational Psychology*
A.B., Morningside College; M.A., Ph.D., University of Iowa. 1931.
- ADAH LEWIS, M.S., *Associate Professor of Home Economics*
B.S., M.S., Kansas State College. 1923.
- DOUGLAS CLERMONT LIVINGSTON, B.Sc.(Min.Engr.), *Professor of Geology*
B.Sc.(Min.Engr.), McGill University. 1911-1920; 1930.
- RAYMOND W. LIND, B.S.(C.E.), *Superintendent of Buildings and Grounds and Purchasing Agent*
B.S.(C.E.), University of Colorado. 1929.
- GEORGE LEROY LUKE, M.A., *Assistant Professor of Physics*
B.A., Brigham Young University; M.A., University of Wisconsin. 1920.
- BERNICE MCCOY, M.S.(Ed.), *Associate Professor of Education and Director of Non-Resident Instruction and Placement Service*
B.S.(Ed.), M.S.(Ed.), University of Idaho. 1922.
- MURIEL GRAHAM MCFARLAND, M.S., *Associate Professor of Home Economics, State Supervisor of Home Economics, and Resident Teacher Trainer of Home Economics*
B.S., Kansas State Teachers College; M.S., Columbia University. 1930.
- †HARRY PETER MAGNUSON, M.S.(Agr.), *Associate Professor of Agricultural Chemistry, Acting Head of the Department of Agricultural Chemistry, and Acting Agricultural Chemist, Agricultural Experiment Station*
B.S.(Agr.), University of Nebraska; M.S.(Agr.), University of Idaho. 1920.
- WILLIAM EDWARD MASTERSON, S.J.D., LL.D., *Professor of Law and Dean of the College of Law*
A.B., University of Texas; A.M., LL.B., S.J.D., Harvard University; LL.D., University of London. 1928.
- JAMES FRANKLIN MESSENGER, Ph.D., *Professor of Education and Dean of the School of Education*
A.B., University of Kansas; A.M., Harvard University; Ph.D., Columbia University. 1920.
- CHARLES ARTHUR MICHELS, M.S.(Agr.), *Assistant Professor of Agronomy, and Assistant Agronomist, Agricultural Experiment Station*
B.A., North Dakota Agricultural College; M.S., University of Wisconsin; M.S.(Agr.), University of Idaho. 1928.
- **FRANCIS GARNER MILLER, M.F., *Professor of Forestry and Dean of the School of Forestry*
Ph.B., University of Iowa; B.S.A., Iowa State College; M.F., Yale University Forest School. 1917.
- GEORGE MOREY MILLER, Ph.D., *Professor of English and Head of the Department of English*
A.B., University of Indiana; A.M., Harvard University; Ph.D., University of Heidelberg. 1917.

*Died January 22, 1932.

†On leave 1931-32.

‡Resigned Nov. 1, 1931.

**On leave second semester, 1931-32.

- *WALTER HENRY MUELLER, B.M., *Assistant Professor of Music*
B.M., Whitman College; Graduate, Leipzig Conservatory of Music. 1928.
- JULIUS EDWARD NORDBY, M.S.(AGR.), *Associate Professor of Animal Husbandry, and Assistant Animal Husbandman, Agricultural Experiment Station*
B.S.(Agr.), University of Idaho; M.S.(Agr.), University of Illinois. 1916.
- ELLA LETITIA OLESEN, *Registrar*
University of Idaho. 1915.
- WILLIAM HENRY PITTMAN, A.B., LL.B., *Assistant Professor of Law*
A.B., University of Washington; LL.B., University of Idaho. 1930.
- †THEODORE JAN PRICHARD, B.A., *Assistant Professor of Art and Head of the Department of Art and Architecture*
B.A., University of Minnesota. 1926.
- ‡JOHN MILFORD RAEDER, M.S., *Associate Professor of Plant Pathology, and Associate Plant Pathologist, Agricultural Experiment Station*
B.S.(Agr.), M.S., Iowa State College. 1921.
- ELLEN REIERSON, M.S.(ED.), *Assistant Professor of Business Administration*
B.S.(Ed.), M.S.(Ed.), University of Idaho. 1926.
- MABEL WINIFRED RENTFRO, A.M., *Assistant Professor of Classical and Modern Languages*
B.A., University of Idaho; A.M., Radcliffe College. 1925.
- JESSE EDWARD RETHERFORD, M.A., *Professor of History*
A.B., Indiana University; M.A., University of Chicago. 1928.
- EDWARD FRANKLIN RINEHART, B.S.(AGR.), *Associate Animal Husbandman, Agricultural Experiment Station and Extension Division (Boise)*
B.S.(Agr.), Ohio State University. 1918.
- †RALPH DOUGLAS RUSSELL, PH.D., *Professor of Secondary Education*
B.A., Union University; Ph.D., University of Iowa. 1926.
- MARGARETTE LOUISE SARGENT, M.A., *Professor of Modern Languages*
M.A., Columbia University. 1920.
- GEORGE SILAS SCHILLING, M.S., *Associate Bacteriologist, Agricultural Experiment Station*
B.S., University of Arkansas; M.S., Michigan State College. 1927.
- JOHN WYVILLE SHEEHY, First Lieutenant, Infantry, D.O.L., U.S. Army, *Assistant Professor of Military Science and Tactics*
Graduate, U.S. Military Academy; Graduate, Infantry School, Fort Benning, Ga. 1929.
- †WESLEY EARL SHULL, M.S., *Assistant Professor of Entomology, and Assistant Pathologist, Agricultural Experiment Station*
B.S., Iowa State College; M.S., University of Idaho. 1926.
- WALTER WAYNE SMITH, M.S.(ED.), *Associate Professor of Secondary Education and Director of Practice Training*
A.B., California Christian College; M.S.(Ed.), University of Idaho. 1928.
- ROBERT SHIRLEY SNYDER, M.S.(AGR.), *Associate Professor of Agricultural Chemistry; Acting Head of the Department of Agricultural Chemistry; and Acting Agricultural Chemist, Agricultural Experiment Station*
B.S., Coe College; M.S.(Agr.), University of Idaho. 1919.
- PHILIP HENDRICK SOULEN, M.A., *High School Inspector*
B.A., M.A., Hope College. 1906.
- ARTHUR MERRILL SOWDER, M.S.(FOR.), *Assistant Professor of Forestry*
B.S.(For.), M.S.(For.), University of Idaho. 1927.
- WILLIAM WESLEY STALEY, M.S.(MET.), *Assistant Professor of Mining and Metallurgy*
B.S., E.M., New Mexico School of Mines; M.S.(Met.), University of Idaho. 1928.
- FRANK STANTON, LL.B., *Bursar*
LL.B., Drake University. 1911.
- LYNN HUGHES STAUFFER, PH.D., *Assistant Professor of Physics*
B.S., Utah State Agricultural College; Ph.D., University of California. 1930.
- HOWARD BROWN STOUGH, PH.D., *Professor of Zoology and Head of the Department of Zoology*
A.B., Midland College; M.A., Kansas University; Ph.D., Harvard University. 1925.
- MARY BELLE SWEET, B.L.S., *Librarian and Instructor in Library Science*
B.L.S., University of Illinois. 1905.

*Resigned Jan. 1, 1932.

†In cooperation with the U.S. Department of Agriculture.

‡On leave 1931-32.

- EUGENE TAYLOR, M.A., *Professor of Mathematics and Head of the Department of Mathematics*
A.B., M.A., DePauw University. 1920.
- DONALD RICHARD THEOPHILUS, M.S., *Associate Professor of Dairy Husbandry, and Associate Dairy Husbandman, Agricultural Experiment Station*
B.S.(An.Hus.), B.S.(Dairy Mfg.), M.S.(Dairy Bact.), Iowa State College. 1927.
- HENRIETTA JOSEPHINE TROMANHAUSER, Ph.D., *Associate Professor of Modern Languages*
B.A., University of Chicago; Ph.D., University of Heidelberg. 1920.
- LOWELL RAY TUCKER, M.S.(Hort.), *Assistant Professor of Horticulture, and Assistant Horticulturist, Agricultural Experiment Station*
B.S.(Agr.), University of Illinois; M.S.(Hort.), University of New Hampshire. 1930.
- CLARENCE CORNELIUS VINCENT, Ph.D., *Professor of Horticulture, and Horticulturist, Agricultural Experiment Station*
B.S.A., M.S., Oregon Agricultural College; M.S.(Agr.), Cornell University; Ph.D., Massachusetts Agricultural College. 1910.
- HAROLD AARON VOGEL, M.S., *Assistant Professor of Business Administration, and Assistant Agricultural Economist, Agricultural Experiment Station*
B.B.A., M.S., University of Minnesota. 1931.
- CARL LEOPOLD VONENDE, Ph.D., *Professor of Chemistry and Head of the Department of Chemistry*
B.S., M.S., University of Iowa; Ph.D., University of Goettingen. 1908.
- CLAUDE WAKELAND, M.S., *Professor of Entomology, and Entomologist, Agricultural Experiment Station and Extension Division*
B.S.(Agr.), M.S., Colorado Agricultural College. 1920.
- WILLARD JOSEPH WILDE, M.S., C.P.A., *Assistant Professor of Business Administration*
B.S., University of Utah; M.S., University of California. 1924.
- LILLIAN JANETTE WIRT, M.A., *Associate Professor of Physical Education for Women and Head of the Department of Physical Education for Women*
B.A., University of Nebraska; M.A., Columbia University. 1923.
- ELLA WOODS, Ph.D., *Home Economist, Agricultural Experiment Station*
B.S., B.S.(H.Ec.), University of Idaho; A.M., Ph.D., Columbia University. 1927.

INSTRUCTORS AND ASSISTANTS IN INSTRUCTION

- VADA HAZEL ALLEN, B.S., *Fellow in Botany*
B.S., University of Idaho. 1931.
- WILLIAM CARR BANKS, M.A., *Instructor in English*
A.B., M.A., University of Washington. 1927.
- FRANK L. BARNUM, Sgt., U.S. Army, *Assistant in Military Science and Tactics*. 1926.
- ARTHUR HENRY BEATTIE, M.A., *Instructor in Modern Languages*
B.A., M.A., University of British Columbia. 1931.
- JOHN ASAH EL BECKWITH, M.A., *Instructor in English*
B.A., Gooding College; M.A., University of Idaho. 1928.
- LESTER VANCE BENJAMIN, B.S.(Agr.), *Research Fellow in Agronomy*
B.S.(Agr.), Michigan State College. 1930.
- FRED CLAYSON BLANCHARD, M.A., *Instructor in Dramatics*
B.A., M.A., University of Washington. 1930.
- DONALD WILLIAM BOLIN, B.S.(Agr.), *Assistant Chemist, Agricultural Experiment Station*
B.S.(Agr.), University of Wisconsin. 1929.
- AGNES MARIE BOTHNE, B.A., *Instructor in Music*
B.A., University of Minnesota. 1930.
- WILLIAM HAROLD BOYER, M.S., *Instructor in Psychology*
B.S., M.S., University of Idaho. 1930.
- BOYD LYSCEUM BRIGHAM, M.S.(Ed.), *Supervisor of Practice Teaching in Agricultural Education*
B.S.,(Agr.), M.S.(Agr.), University of Idaho. 1925.
- *THOMAS BRINDLEY, M.S., *Assistant Entomologist, U.S.D.A., Agricultural Experiment Station*
B.S., M.S., Iowa State College. 1931.
- LEAH TUTTLE BUCHANAN, B.S., *Lecturer in Home Nursing*
R.N., Good Samaritan Hospital, Portland; B.S., University of Idaho. 1930.

*In cooperation with the U.S. Department of Agriculture.

- WILLIAM HERSCHELL BUNCH, M.A., *Instructor in Mathematics*
B.A., Walla Walla College; B.A., Pacific University; M.A., University of Oregon. 1927.
- ROBERT CALDER CASSELL, B.S., *Graduate Assistant in Plant Pathology*
B.S., Iowa State College. 1931.
- LAWRENCE HENRY CHAMBERLAIN, B.S.(Ed.), *Graduate Assistant in Political Science*
B.S.(Ed.), University of Idaho. 1931.
- GEORGE ROBERT CERVENY, M.A., *Instructor in English*
B.S.(Ed.), M.A., University of Idaho. 1930.
- VIRGIL ARTHUR CHERRINGTON, M.S., *Instructor in Agricultural Bacteriology, and Assistant Bacteriologist, Agricultural Experiment Station*
B.S., Iowa State College; M.S., University of Idaho. 1928.
- CHESTER WAYNE CHRISTENSEN, *Fellow in Bacteriology, Agricultural Experiment Station*
University of Idaho. 1931.
- ELSIE JEAN COLLETTE, B.A., *Fellow in English*
B.A., University of Idaho. 1931.
- BARTON CRUIKSHANK, D.Sc., *Instructor in Mechanical Engineering*
B.S., Brooklyn Polytechnic Institute; M.Sc., University of the State of New York; D.Sc., University of Santa Clara. 1929.
- MARGARET ELIZABETH CUDDY, B.S.(Ed.), *Fellow in Philosophy*
B.S.(Ed.), University of Idaho. 1931.
- LEROY ELLSWORTH DETLING, A.M., *Instructor in Botany*
A.B., University of Oregon; A.M., Stanford University. 1930.
- MARION FEATHERSTONE, M.A., *Instructor in Home Economics*
B.S.(Ed.), University of Idaho; M.A., University of Southern California. 1931.
- DAVID LESLIE FOUNT, B.S.(Agr.), *Extension Dairyman, and Assistant Dairy Husbandman, Agricultural Experiment Station, (Boise)*
B.S.(Agr.), University of Idaho. 1922.
- DOROTHY MARY FREDRICKSON, B.M., *Instructor in Music*
B.M., University of Idaho. 1930.
- RUTH FRANCES GARVER, B.S.(Ed.), *Fellow in Business Administration*
B.S.(Ed.), University of Idaho. 1931.
- ROBERT FULTON GREENE, *Acting Proctor*
University of Idaho. 1931.
- ROWLAND WELLS HAEGELE, A.B., *Assistant Entomologist, Agricultural Experiment Station (Parma)*
A.B., Stanford University. 1928.
- *KATY RAE HALL, M.A., *Instructor in Physical Education for Women*
B.S., University of Texas; M.A., Columbia University. 1932.
- HENRY CHRISTIAN HANSEN, M.S.(Agr.), *Instructor in Dairy Husbandry, and Assistant Dairy Husbandman, Agricultural Experiment Station*
B.S.(Agr.), M.S.(Agr.), University of Idaho. 1925.
- LEONARD HELLAND, M.S.(M.E.), *Assistant in Physics*
B.S.(M.E.), M.S.(M.E.), University of Idaho. 1921.
- GEORGE ELMER HORTON, B.S.(E.E.), *Graduate Manager of Student Activities*
B.S.(E.E.), University of Idaho. 1923.
- THEODORE ROOSEVELT HORNING, B.S., *Fellow in Agricultural Engineering*
B.S., University of Idaho. 1931.
- LULU GRACE ALLEN HOUTCHENS, B.S.(Ed.), *Fellow in Education*
B.S.(Ed.), University of Idaho. 1931.
- PHILIP JOHN ISAAK, M.S., *Assistant Agricultural Chemist, Agricultural Experiment Station*
B.S.(Chem.), Kansas State Agricultural College; M.S., University of Missouri. 1930.
- GLENN JAMES JACOBY, B.A., *Freshman Coach and Assistant in Physical Education for Men*
B.A., University of Idaho. 1929.
- ALLEN SHEELEY JANSSEN, B.S.(Arch.), *Instructor in Civil Engineering*
B.S.(Arch.), University of Idaho. 1931.
- ERNEST JOHNSON, B.S., *Fellow in Zoology*
B.S., Illinois College. 1931.
- REUBEN FREDERIC JOHNSON, B.S.(Agr.), *Assistant Animal Husbandman, and Assistant in Feeding Investigations, Agricultural Experiment Station (Caldwell)*
B.S.(Agr.), University of Idaho. 1929.
- MARY BURNETTE KIRKWOOD, M.F.A., *Instructor in Art and Architecture*
B.A., University of Montana; M.F.A., University of Oregon. 1930.

*Appointed Feb. 1, 1932.

- PAULINE LAMAR, M.A., *Instructor in English*
B.S., Oregon State College; M.A., University of Idaho. 1929.
- VAUGHN PRATER LATTIG, M.A., *Instructor in Modern Languages*
B.A., M.A., University of Idaho. 1926.
- MIRIAM HARRIET LITTLE, B.M., B.F.A., *Instructor in Music*
B.M., B.F.A., University of Nebraska. 1930.
- MABEL LOCKE, B.S., *Instructor in Physical Education for Women*
B.S., Northwestern University. 1930.
- RAYNARD VICTOR LUNDQUIST, B.S.(CHEM.E.), *Instructor in Fire Assaying*
B.S.(Chem.E.), University of Idaho. 1928.
- FRANK RUSSELL MAKARA, B.S.(FOR.), *Fellow in Forestry*
B.S.(For.), New York State College of Forestry. 1931.
- ALONZO WILBUR MARTIN, M.S., *Instructor in Chemistry*
B.S.(Chem.E.), M.S., University of Idaho. 1925.
- CHARLES CECIL MAULDING, M.A., *Fellow in Philosophy*
B.A., College of Idaho; M.A., University of Idaho. 1931.
- MITTAN WILLIAM MELZIAN, B.Arch., *Instructor in Architecture*
B.Arch., University of Minnesota. 1929.
- HARRY MILLER, M.S., *Instructor in Agricultural Engineering, and Assistant Agricultural Engineer, Agricultural Experiment Station*
B.S.(Agr.Engr.), University of Saskatchewan; M.S., University of Missouri. 1930.
- RAYMOND CARL MILLER, B.M., *Instructor in Music*
B.M., University of Wisconsin. 1930.
- FRANK LEONARD MLEYNEK, B.S.(D.H.), *Fellow in Dairy Husbandry*
B.S.(D.H.), Iowa State College. 1931.
- JANET HAWKINS MONTGOMERY, M.A., *Instructor in Philosophy*
B.S., M.A., University of Idaho. 1929.
- WILLIAM CLOUD MOORE, B.S.(BUS.), *Instructor in Economics*
B.S.(Bus.), University of Idaho. 1930.
- JOSEPH NEWTON, M.S.(MET.), *Research Assistant in Metallurgy*
B.S.(Met.), Montana School of Mines; M.S.(Met.), University of Idaho. 1930.
- BERNT NIELSEN, *Instructor in Cornet Playing and Leader of the Cadet Military Band*
Graduate, Army Music School, Trondhjem, Norway. 1918.
- FLOYD LESLIE OTTER, B.S.(FOR.), *Instructor in Forestry*
B.S.(For.), University of Idaho. 1930.
- HOWARD EMERSON PACKENHAM, B.A., *Instructor in English*
B.A., College of Idaho. 1931.
- *REDMOND JAMES PANGBORN, B.S.(E.E.), *Instructor in Electrical Engineering*
B.S.(E.E.), University of Idaho. 1931.
- VIRGINIA INADINE PECK, B.S., *Fellow in Zoology*
B.S., University of Idaho. 1931.
- †REX BURNS PONTIUS, *Fellow in Physics*
University of Idaho. 1932.
- HENRY GORDON POOLE, B.S.(MIN.E.), *Research Fellow in Metallurgy*
B.S.(Min.E.), Case School of Applied Science. 1931.
- MELCHER WALTER PRIEBE, B.S.(ED.), *Fellow in Education*
B.E.(Ed.), University of Idaho. 1931.
- RUTH MARIE RAGAN, B.S., *Fellow in Zoology*
B.S., University of Idaho. 1931.
- WILLIAM HERMAN RECK, E.MET., *Research Fellow in Metallurgy*
B.S.(Met.), E.Met., Michigan College of Mining and Technology. 1931.
- RUTH ELIZABETH REMSBERG, M.S., *Assistant Plant Pathologist, Agricultural Experiment Station*
B.S., M.S., University of Idaho. 1930.
- PAUL LAVERNE RICE, B.S.(AGR.), *Instructor in Entomology, and Assistant Entomologist, Agricultural Experiment Station*
B.S.(Agr.), University of Idaho. 1931.
- WILLIAM SCHROEDER, E.E., *Instructor in Mechanical Engineering*
B.S.(E.E.), E.E., University of Idaho. 1929.
- LESTER LORENTZ SCHULTZ, M.A., *Instructor in English*
B.A., University of Minnesota; M.A., University of Idaho. 1927.
- JOHN ALFRED SHELLENBERGER, M.S., *Assistant Agricultural Chemist, Agricultural Experiment Station*
B.S., University of Washington; M.S., Kansas State Agricultural College. 1931.

*Appointed for 1931-32 only.

†Appointed Feb. 1, 1932.

- THEODORE ALLISON SHERMAN, A.B., *Instructor in English*
A.B., Stanford University. 1931.
- LITER ESTILL SPENCE, M.S.(FOR.), *Instructor in Forestry*
B.S.(For.), University of Idaho; M.S.(For.), University of California. 1930.
- HERMAN WALTER STEFFENS, M.S., *Instructor in Zoology*
B.S.(Pre-Med.), M.S., University of Idaho. 1931.
- DAVID JAMES STOFFER, B.S.(FOR.), *Research Fellow in Forestry*
B.S.(For.), Michigan State College. 1931.
- THOMAS IVAN TAYLOR, B.S.(CHEM.E.), *Assistant in Chemistry*
B.S.(Chem.E.), University of Idaho. 1931.
- JESSIE BEATRICE THORNER, B.S., *Supervisor of Practice Teaching in Home Economics*
B.S., South Dakota State College. 1923.
- EDWARD LANGDON TULLIS, GEOL.ENG., *Teaching Fellow in Geology*
Geol.Eng., Colorado School of Mines. 1930.
- OTTO TURINSKY, JR., B.S.(CHEM.E.), *Instructor in Chemistry*
B.S.(Chem.E.), University of Idaho. 1929.
- *THEODORE WALLACE TURNER, B.S.(ED.), *Proctor*
B.S.(Ed.), University of Idaho.
- *ALBERTO VAZQUEZ, M.A., *Instructor in Modern Languages*
B.A., M.A., University of Idaho. 1925.
- HILDEGARDE WANOUS, M.A., *Instructor in English*
B.A., M.A., University of Minnesota. 1927.
- THEODORE ROOSEVELT WARREN, M.S.(AGR.), *Instructor in Dairy Husbandry, and Assistant Dairy Husbandman, Agricultural Experiment Station*
B.S.(Agr.), University of Idaho; M.S.(Agr.), Kansas State Agricultural College. 1930.
- ALBERT EDWARD WHITEHEAD, M.A., *Instructor in Public Speaking*
B.A., University of Colorado; M.A., University of Wisconsin. 1930.
- JAMES KENNETH WILLIAMS, B.S.(AGR.), *Assistant Poultry Husbandman, Agricultural Experiment Station*
B.S.(Agr.), Texas A. & M. College. 1931.
- *MENTOR LEE WILLIAMS, M.A., *Instructor in English*
B.A., M.A., University of Idaho. 1929.
- LONIE WOODS, 1st Sgt., U.S. Army, *Assistant in Military Science and Tactics.* 1921.
- JOHN PHILIP WYMER, M.A., *Instructor in Mathematics*
A.B., M.A., University of California. 1931.
- ADA MARTHA YOST, B.A., *Fellow in English*
B.A., University of Idaho. 1931.
- CAROL OSCAR YOUNGSTROM, M.S., *Assistant Agricultural Economist, Agricultural Experiment Station*
B.S., Oregon State College; M.S., Kansas State Agricultural College. 1930.

LIBRARY ASSISTANTS

- AGNES CHRISTINA PETERSON, A.B., *Assistant Librarian*
A.B., University of Washington. 1922.
- MARY LEE HALL, A.B., *Cataloger*
A.B., University of Washington. 1928.
- MILDRED HANSEN KERR, B.A., *Loan Assistant*
B.A., University of Oregon. 1929.
- NEDRA LUCILLE LEBLOND, B.A., B.S.(L.S.), *Periodical Assistant*
B.A., B.S.(L.S.), University of Washington. 1930.
- CATHERINE ELIZABETH JONES, B.S.(L.S.), *General Assistant*
B.S.(L.S.), University of Washington. 1930.
- †KATHERINE BEAM GRAYBILL, B.A., *Reserve Book Assistant*
B.A., University of Idaho. 1930.
- †HELEN ETHEL HANSON, *Loan Assistant*
University of Idaho. 1932.

ASSISTANTS IN ADMINISTRATION AND SERVICE

- HELEN HUDELSON ADAMS, *Stenographer*, College of Agriculture. 1931.
- THOMAS REGINALD ASHLEE, *Florist.* 1927
- LILLIAN ELLEN BAIR, *Secretary to Graduate Manager.* 1931.
- AMALIE BARING, *Cashier*, Office of Bursar. 1924.

*On leave 1931-32.

†Resigned Feb. 1, 1932.

†Appointed Feb. 1, 1932.

- SIDNEY CHESLEY BATES, *Chief Engineer*, Heating System. 1910.
 HAZEL CLAIRE BOLES, *Stenographer*, Department of Poultry Husbandry. 1930.
 MARY ELLEN BROOD, *Stenographer*, College of Agriculture. 1926.
 STANLEY S. BROWN, *Sheep Herdsman*. 1923.
 CAROL DOROTHY BUE, *Stenographer*, Office of Bursar. 1930.
 LYDIA BUE, *Statistics Clerk*, Office of Registrar. University of Idaho. 1929.
 NELLIE BUE, *Assistant Accountant*, Office of Bursar. 1929.
 FREDERIC LEO BURKART, *Field Superintendent* in Agronomy. 1915.
 †MILDRED REGINA CARLSON, B.S.(Bus.), *Clerk*, Office of Bursar
 B.S.(Bus.), University of Idaho. 1932.
 EVELYN ROSENBERG CLARK, M.A., *House Mother*, Forney Hall
 B.A., Whittier College; M.A., University of Idaho. 1929.
 ANNA COLBY, *Nurse*, Infirmary. 1926.
 CHARLES DAGMAN, *Machinist*. 1931.
 KENNETH ANDREW DICK, B.S.(Bus.), *Assistant Accountant*, Office of Bursar
 B.S.(Bus.), University of Idaho. 1931.
 MATTHEW DIETHELM, *Painter*. 1930.
 BEATRICE DAYTON DOLAN, B.S., *Secretary* to Director of Placement Service
 B.S., University of Idaho. 1930.
 ELIZABETH AGNES DRISCOLL, B.A., *Secretary* to Head of Department of Agricultural
 Engineering
 B.A., University of Idaho. 1930.
 HELEN REBECCA FLACK, *Secretary* to Dean of the College of Letters and Science
 University of Idaho. 1931.
 WILLIAM J. FLORENCE, *Beef Cattle Herdsman*. 1928.
 LAURENCE WILLIAM FOSKETT, B.S.(E.E.), *Assistant Electrician*
 B.S.(E.E.), University of Idaho. 1929.
 CHARLES EDGAR GABBY, *Dairy Cattle Husbandman*. 1921.
 SIGNE GILBERTSON, *Secretary* to State Home Demonstration Leader. 1929.
 LAVINIA ADELINE GROSS, *Stenographer*, College of Agriculture. 1925.
 CECIL HAGEN, B.A., *Assistant* in Department of Publications
 B.A., University of Idaho. 1930.
 VIOLET MIRIAM HAGEN, *Secretary* to Dean of the School of Forestry
 University of Idaho. 1929.
 GEORGE CLEMENT HALLAM, *Carpenter*. 1908.
 AGNES KERR HITE, *Secretary* to Dean of the College of Agriculture. 1931.
 RHODA HOBSON, *Head of Stenographic Bureau*. 1911.
 ELMER NEWTON HUMPHREY, *Shop Assistant* in Agricultural Engineering
 University of Idaho. 1927.
 RUTH LUECK INGEBRITSEN, B.A., *Credential Clerk*, Office of Registrar
 B.A., University of Wisconsin. 1930.
 AUDELLA JOHNSON, *Stenographer*, Dairy Department. 1929.
 CONSTANCE ALVIDA JOHNSON, *Secretary*, Office of the President. 1930.
 ALICE ROSEMARY KELLY, B.S.(H.Ec.), *Director of Dining Room and Kitchen Service*,
 Hays and Forney Halls
 B.S.(H.Ec.), University of Idaho. 1931.
 RALPH KENNEDY, *Electrician*
 University of Idaho. 1920.
 MARGARET FRANCES KING, B.S.(Ed.), *Recording Clerk*, Office of Registrar
 B.S.(Ed.), University of Idaho. 1931.
 DOROTHY ELMA MCCAULEY, B.S.(Ed.), *Clerk*, Office of Bursar
 B.S.(Ed.), University of Idaho. 1931.
 VIRGINIA AGNES MERRIAM, B.A., *Clerk*, Office of Registrar
 B.A., University of Idaho. 1931.
 JOHN SMITH MILLER, *Secretary* to Superintendent of Buildings and Grounds
 University of Idaho. 1930.
 CLARENCE EDWIN MITCHELL, *Storekeeper*. 1930.
 MELBA BLOUGH OGG, R.N., *Nurse*, Infirmary
 R.N., Deaconess Hospital, Spokane. 1927.
 WINIFRED BARBARA OLSON, R.N. *Nurse*, Infirmary
 R.N., Deaconess Hospital, Spokane. 1930.

†Appointed Jan. 1, 1932.

- MARY ELLEN OWINGS, B.A., *Stenographer*, Office of Registrar
B.A., University of Idaho. 1929.
- FLOYD LYMAN PACKER, *Chief Accountant and Assistant Purchasing Agent*, Office of Bursar.
University of Idaho. 1929.
- PAULINE HARRIET PATERKA, *Assistant and Secretary* to Head of Music Department
University of Idaho. 1931.
- EDNA PETERSON, R.N., *Head Nurse*, Infirmary
R.N., St. Joseph's Hospital, Vancouver, Wn. 1926.
- HOWARD PFANDER, *Swine Herdsman*
1922.
- MAGDALEN HENDERSON PIERCY, *House Mother*, Ridenbaugh Hall
1929.
- CLEMENT LEE PRICE, *Forest Nurseryman*.
1910.
- MYRTLE IRENE RACH, B.S.(Ed.), *Secretary and Assistant* to the Registrar
B.S.(Ed.), University of Idaho. 1930.
- ELMER ROTH, *Assistant Engineer*, Physical Plant
1929.
- INEZ TRACY ROULSTON, *Secretary*, School of Mines
1929.
- FLORENCE RACHEL SAMPSON, *Clerk*, Office of Bursar
University of Idaho. 1929.
- EARL SAWYER, *Herdsman*
1927.
- DOROTHY VIRGINIA SHEARS, B.S.(Bus.), *Secretary* to Dean of Women
B.S.(Bus.), University of Idaho. 1930.
- LENA SHOUP, *House Mother*, Hays Hall.
1927.
- WILMA MCKAY SILVER, *Clerk*, Office of Bursar
1931.
- AUGUST GOTTFRED SKOG, *Head Janitor*.
1909.
- BERTHA ELLENE SPARKS, B.A., *Assistant* in Department of Publications
B.A., University of Iowa. 1928.
- LUCIE THROCKMORTON, *Secretary* to County Agent Leader
University of Idaho. 1918.
- GEORGE TOMER, *Foreman*, University Farm.
1922.
- OTTO TURINSKY, Sr., *Head Gardener*.
1929.
- GEORGE VAN, *Foreman*, Poultry Farm.
1921.
- PEARLE WATTS, *House Mother*, Lindley Hall.
1929.
- KATHRYN HAZEL WEST, B.A., *Secretary* to Librarian
B.A., University of Idaho. 1931.

OFFICERS OF EXTENSION DIVISION

(Agriculture and Home Economics)

- EDWARD JOHN IDDINGS, M.S., *Dean of the College of Agriculture and Director of Extension Division*
- AGNES KERR HITE, *Secretary to the Director*. 1931.

Field Staff

- | | |
|---|-----------------------|
| JESSIE CAMERON AYERS, A.B., <i>State Seed Analyst</i>
A.B., University of Washington. 1919. | Noble Building, Boise |
| EDMUND ROSWELL BENNETT, M.H., <i>Extension Horticulturist</i>
B.S., M.H., Michigan Agricultural College. 1916. | State House, Boise |
| EZRA TAFT BENSON, M.S., <i>Agricultural Economist</i>
B.S., Brigham Young University; M.S., Iowa State College. 1929. | State House, Boise |
| HARRY LOWE SPENCE, JR., B.S.(Agr.), <i>Agronomist and State Seed Commissioner</i>
B.S.(Agr.), University of Idaho. 1931. | State House, Boise |

- STANLEY CAIPHUS CLARKE, Ph.C., *Extension Forester* Moscow
Ph.C., University of Illinois; University of Idaho. 1931.
- HARRY EVERETT DROBISH, B.S., *Secretary Northwest Potato Committee* State House, Boise
B.S., University of California. 1930.
- MARJORIE EASTMAN, M.A., *Clothing Specialist* State House, Boise
B.S., Simmons College; M.A., Columbia University. 1926.
- DAVID LESLIE FOUNT, B.S.(Agr.), *Extension Dairyman* State House, Boise
B.S.(Agr.), University of Idaho. 1922.
- MARION MARTHA HEPWORTH, B.S.(H.Ec.), *Home Demonstration Leader and Nutrition Specialist* Moscow
B.S.(H.Ec.), Kansas State College. 1924.
- GEORGE TAYLOR HUDSON, B.S., *Assistant Agricultural Economist* State House, Boise
B.S., University of Missouri. 1931.
- GUY RAYMOND MCDOLE, M.A., *Soils Specialist* Moscow
B.S., M.A., University of Nebraska. 1920.
- PREN MOORE, *Poultry Specialist* State House, Boise
University of Idaho. 1919.
- THOMAS B. MURRAY, *Rodent Control Leader* State House, Boise
1928.
- JOHN HENRY REARDEN, B.S., *County Agent Leader* Moscow
B.S., Oregon Agricultural College. 1920.
- EDWARD FRANKLIN RINEHART, B.S.(Agr.), *Extension Animal Husbandman* State House, Boise
B.S.(Agr.), Ohio State University. 1918.
- *WESLEY EARL SHULL, M.S., *Assistant Extension Entomologist* Moscow
B.S., Iowa State College; M.S., University of Idaho. 1926.
- LEON B. TAYLOR, B.S.(Agr.), *Assistant Extension Animal Husbandman* State House, Boise
B.S.(Agr.), University of Idaho. 1930.
- CLAUDE WAKELAND, M.S., *Extension Entomologist* Moscow
B.S.(Agr.), M.S., Colorado Agricultural College. 1920.

County Agents

- ISAAC MILTON COMPTON ANDERSON, B.S.(Agr.), *County Extension Agent, Caribou County* Soda Springs
B.S.(Agr.), Oregon Agricultural College. 1927.
- TRUMAN CARLTON ANDERSON, B.S.(Agr.), *County Extension Agent, Lincoln County* Shoshone
B.S.(Agr.), Washington State College. 1927.
- DELBERT T. BOLLINGBROKE, B.S.(Agr.), *County Extension Agent, Madison County* Rexburg
B.S.(Agr.), Utah Agricultural College. 1926.
- CHARLES WARREN DAIGH, B.S., *County Extension Agent, Bannock County* Pocatello
B.S., Oregon State College. 1930.
- ALMA EARL DUKE, B.S.(Agr.), *County Extension Agent, Bear Lake County* Paris
B.S.(Agr.), University of Idaho. 1931.
- HARVEY S. HALE, B.S.(Agr.), *County Extension Agent, Twin Falls County* Twin Falls
B.S.(Agr.), Oregon State College. 1930.
- ROBERT NEIL IRVING, B.S.(Agr.), *County Extension Agent, Kootenai County,* Coeur d'Alene
B.S.(Agr.), B.S.(Ed.), University of Idaho. 1922.
- PETER MARTIN JESNESS, B.S.(Agr.), *County Extension Agent, Elmore County* Mountain Home
B.S.(Agr.), University of Minnesota. 1918.
- CHASE KEARL, B.S.(Agr.), *County Extension Agent, Franklin County* Preston
B.S.(Agr.), Utah Agricultural College. 1921.
- THOMAS JEFFERSON KLINGLER, B.S., *County Extension Agent, Blaine County* Hailey
B.S., Ohio Northern University. 1919.
- BUFORD ELMER KUHN, B.S.(Agr.), *County Extension Agent, Minidoka County,* Rupert
B.S.(Agr.), University of Idaho. 1927.
- OTIS ELMER MCCONNELL, B.S.(Agr.), *County Extension Agent, Gooding County* Gooding
B.S.(Agr.), University of Missouri. 1921.
- GUY THEODORE McALEXANDER, B.S.(Agr.), *County Extension Agent, Benewah County* St. Maries
B.S.(Agr.), Colorado Agricultural College. 1930.

*On leave 1931-32.

- WILLIAM EBER RAWLINGS, B.S.(AGR.), *County Extension Agent, Bonneville County* Idaho Falls
B.S.(Agr.), Purdue University. 1931.
- WILLIAM WENDELL PALMER, B.S.(AGR.), *County Extension Agent, Cassia County* Burley
B.S.(Agr.), University of Idaho. 1927.
- JOHN ROLAND ROBERTSON, B.S.(AGR.), *County Extension Agent, Fremont County* St. Anthony
B.S.(Agr.), University of Idaho. 1930.
- DELMER EYRE SMITH, B.S., *County Extension Agent, Jefferson County* Rigby
B.S., Utah Agricultural College. 1927.
- RAYMOND JAMES SMITH, B.S.(AGR.), *County Extension Agent, Oneida County* Malad
B.S.(Agr.), Utah Agricultural College. 1918.
- THOMAS EDWARD SPEEDY, B.S.(AGR.), *County Extension Agent, Jerome County* Jerome
B.S.(Agr.), University of Idaho. 1927.
- EDWIN NELSON STORMS, *County Extension Agent, Boundary County* Bonners Ferry
University of Idaho. 1929.
- WALTER FRANCIS THOMAS, B.S.(AGR.), *County Extension Agent, Bonner County* Sandpoint
B.S.(Agr.), University of Idaho. 1921.
- JOSEPH WILLIAM THOMETZ, *County Extension Agent, Nezperce County* Lewiston
University of Idaho. 1929.
- MERLE L. TILLERY, B.S.(AGR.), *County Extension Agent, Bingham County* Blackfoot
B.S.(Agr.), Colorado Agricultural College. 1925.
- WESLEY ROOSEVELT SPENCER, B.S.(AGR.), *County Extension Agent, Gem County* Emmett
B.S.(Agr.), University of Idaho. 1931.

Home Demonstration Agents

- HATTIE JULIA ABBOTT, B.S.(H.EC.), *District Home Demonstration Agent, North Central District* Moscow
B.S.(H.Ec.), Kansas State Agricultural College. 1929.
- LEATHA CHRISTENSEN, B.S.(H.EC.), *District Home Demonstration Agent* Idaho Falls
B.S.(H.Ec.), Utah Agricultural College. 1929.
- GENEVIEVE HUNTER, B.S.(H.EC.), *District Home Demonstration Agent, Northern District* Moscow
B.S.(H.Ec.), Utah Agricultural College. 1929.
- MAGDALENA CLEMENTS, B.S., *District Home Demonstration Agent* Rupert
B.S., Oklahoma A. & M. College. 1931.
- VIVIAN MINYARD, B.S.(H.EC.), *District Home Demonstration Agent* Boise
B.S.(H.Ec.), Washington State College. 1931.
- JULIA POND, B.S.(H.EC.), *County Home Demonstration Agent, Bannock County* Pocatello
B.S.(H.Ec.), University of Idaho. 1929.
- HELEN PIXTON, M.S.(H.EC.), *District Home Demonstration Agent* Pocatello
B.S.(H.Ec.), University of Utah; M.S.(H.Ec.), Oregon State College. 1931.

Club Agents

- GEORGE CLARENCE ANDERSON, B.S.(AGR.), *District Extension Agent* Boise
B.S.(Agr.), Kansas State Agricultural College. 1922.
- JAMES WARREN BARBER, B.S.(AGR.), *District Extension Agent* Pocatello
B.S.(Agr.), University of Idaho. 1921.
- WILLIAM LOUIS STEPHENS, B.S.(AGR.), *District Extension Agent* Moscow
B.S.(Agr.), University of Idaho. 1926.
- HAROLD RALPH STUCKEY, B.S.(AGR.), *County Club Agent, Bannock County* Pocatello
B.S.(Agr.), University of Idaho. 1929.
- DANIEL EMERSON WARREN, B.S.(AGR.), *District Extension Agent* Burley
B.S.(Agr.), University of Idaho. 1929.

Superintendents of Experiment Substations

- JOHN LEONARD TOEVS, B.S.(AGR.) Aberdeen
B.S.(Agr.), University of Idaho. 1931.
- DAVID A. STUBBLEFIELD Caldwell
1920.
- WILLIAM ALFRED MOSS, B.S.(AGR.) Felt
B.S.(Agr.), Kansas State Agricultural College. 1918.
- JOHN HENRY CHRIST, M.S.(AGR.) Felt
B.S.(Agr.), University of Idaho; M.S.(Agr.), Iowa State College. 1921.

RESEARCH STAFF

Idaho Bureau of Mines and Geology

- JOHN WELLINGTON FINCH, Sc.D., *Secretary and Director*
B.A., M.A., Sc.D., Colgate University. 1930.
- ARTHUR WILLIAM FAHRENWALD, MET.E., *Metallurgist*
B.S.(Met.), Met.E., South Dakota School of Mines; E.M. New Mexico School of Mines. 1919.
- FRANCIS BAKER LANEY, Ph.D., *Geologist*
B.S., Drury College; M.A., University of Wisconsin; Ph.D., Yale University. 1920.
- ALFRED LEONARD ANDERSON, Ph.D., *Geologist*
B.S.(Chem.E.), M.S.(Geol.), University of Idaho; Ph.D., University of Chicago. 1923.
- DOUGLAS CLERMONT LIVINGSTON, E.M., *Geologist*
B.S., E.M., McGill University. 1919-1923, 1930.
- WILLIAM WESLEY STALEY, M.S.(MET.), *Mining Engineer*
B.S., E.M., New Mexico School of Mines; M.S.(Met.), University of Idaho. 1928.
- RAYNARD VICTOR LUNDQUIST, B.S.(CHEM.), *Chemist*
B.S.(Chem.), University of Idaho. 1928.
- JOSEPH NEWTON, M.S.(MET.), *Research Assistant in Metallurgy*
B.S.(Met.), Montana School of Mines; M.S.(Met.), University of Idaho. 1930.
- STEWART HARVEY UDELL, M.S.(GEOL.), *Assistant Geologist*
B.S., University of Utah; M.S.(Geol.), University of Idaho. 1930.
- HARRY GORDON POOLE, B.S.(MIN.E.), *Fellow in Metallurgy*
B.S.(Min.E.), Case School of Applied Science. 1931.
- WILLIAM HERMAN RECK, B.S.(MET.), *Fellow in Metallurgy*
B.S.(Met.), Michigan College of Mining and Technology. 1931.

OFFICE OF BLISTER RUST CONTROL

BUREAU OF PLANT INDUSTRY

In cooperation with the School of Forestry

- RENE PAUL D'URBAL, A.B., Assistant Chemist U.S.D.A., *In Charge of Chemical Studies*
A.B., Gonzaga University. 1930.
- GEORGE ERNEST DRAPER, B.S., *Assistant Chemist*
B.S., University of Arizona. 1930.
- LOUIS S. KEYSER, *Assistant*
University of Idaho. 1930.
- DOUGLAS REED MILLER, B.S., Junior Forester U.S.A., *In charge of Ribes Germination Studies*
B.S., Oregon State College. 1930.

STANDING COMMITTEES OF THE FACULTY

ACADEMIC COUNCIL:

President Neale, Chairman; Dean Eldridge, Vice Chairman; Deans Crawford, Farmer, Finch, French, Hungerford, Iddings, Kerr, Kostalek, Masterson, Messenger, Miller, General Chrisman; Professors Cummings, Jensen, McCoy, Taylor, von Ende; Miss Olesen.

ADMINISTRATIVE COUNCIL FOR THE JUNIOR COLLEGE:

Dean Kerr, Chairman; Deans Eldridge, Farmer, Kostalek, Messenger; Professors Chenoweth, Taylor.

ADMISSIONS AND ADVANCED CREDIT:

Professor Axtell, Chairman; Professors Barton, Gail, Hulbert, Sargent, Sowder, Taylor; Miss Olesen.

AFFILIATION WITH STATE TEACHERS' ASSOCIATION:

Professor Smith, Chairman; Professors Snyder, DuSault, Buchanan.

REPRESENTATIVE ON A.S.U.I. BOARD:

Dean Crawford.

REPRESENTATIVE IN ATHLETIC CONFERENCE:

Dean Crawford.

ATHLETICS:

Dean Crawford, Chairman; Professors Axtell, Calland, Fahrreuwald, Hubert, Hubert, Rearden, Wirt.

BUILDINGS AND GROUNDS:

Mr. Lind, Chairman; Dean Miller; Professors Beresford, Vincent, von Ende.

CALENDAR:

Professor Church, Chairman; Dean French; Professor Snyder; Mr. Horton; Howard C. Altnow, A.S.U.I. Representative.

DINING HALLS:

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DISCIPLINE:

Dean Kostalek, Chairman; Professors Buchanan, Hickman, Howard, Taylor; Harry A. Robb, Robert H. Harris, Student Representatives.

EXHIBITS:

Dean Iddings, Chairman; Professors Beresford, Hubert, Jensen, Snyder; Mr. Fitzgerald.

GRADUATE SCHOOL:

Dean Hungerford, Chairman; Deans Farmer, Messenger; Professors Fahrenwald, Hubert, Miller; Miss Olesen.

HEALTH AND HOUSING:

Professor Halversen, Chairman; Dean French; Professors Calland, Lewis, Stough, Wirt; Doctors Armstrong, Einhouse; Miss Peterson.

LIBRARY:

Miss Sweet, Chairman; Dean Masterson; Professors Church, Howe, Laney, Nordby.

LOAN FUNDS:

Mr. Stanton, Chairman; Professors Taylor, Tromanhauser.

PROMOTION OF SCHOLARSHIP:

Professor Taylor, Chairman; Dean Hungerford; Professors Graue, Tromanhauser, von Ende.

PUBLICATIONS:

Mr. Fitzgerald, Chairman; Dean Farmer; Professors Axtell, Barton, Wakeland; Miss Olesen.

PUBLIC EVENTS:

Dean Kerr, Chairman; Deans Hungerford, Messenger, Miller; Professors Cummings, Jensen, Miller.

REGISTRATION AND SCHEDULE:

Miss Olesen, Chairman; Deans Farmer, Kostalek, Masterson, Messenger; Professors Axtell, Buchanan, DuSault, Staley, Vincent; Mr. Stanton.

STUDENT ORGANIZATIONS:

General Chrisman, Chairman; Deans Crawford, French, Kostalek; Professor Barton.

PART VII
Alumni Organization
Degrees Conferred
Honor List

PART VII
Alumni Organization
Degrees Conferred
Honor List

The Alumni Association

OFFICERS

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	Otto H. Leuschel, Ex-'15, Lewiston
	Paul T. Peterson, '15, Idaho Falls
Secretary-Treasurer.....	J. Lawrence Hodgkin, Ex-'19, Twin Falls
	Endorse G. Van Hoesen, '21, Mesa
	Jesse E. Buchanan, '27, Moscow

Degrees Conferred in June, 1931

Commencement Address

WILLIAM TRUFANT FOSTER, PH.D.

Director, Pollack Foundation for Economic Research, Newton, Mass.

BACCALAUREATE DEGREES

College of Letters and Science

BACHELOR OF ARTS

Mildred Marion Axtell
Mabel Julia Bithell
Helen Melissa Borden
Lena Catherine Clifford
Shirley Dee Cunningham
Elva Kathryn Duncan
Dorothy Caroline Gooch
Ethel Marcella Grove
Ralph Conrad Hanson
Bertha Louise Hauck
John Charles Herndon
Lois Fanny Hints
Dolores Elizabeth Holmes
Julia Glenn Hunter
Amne B. Johnson
Margarette Lucile Johnson
Lois Gordon Kennedy
Winnette Frances Krebs
Mary Charlotte Lefever
Marjorie Alice McClain
Jane Marian McComb

Elsie Philena McMillin
Thelma Solveig Melgard
Virginia Agnes Merriam
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Esther Elizabeth Moulton
Mary Elizabeth Murphy
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Grace McClintock Parsons
Robert William Peterson
Lydia Jane Robinson
Dorothy Helen Rouse
Hazel Marguerite Simonds
Dorothy Marie Taylor
Gladys Margaret Thomas
Caryl Florence Thompson
Josephine Cecelia Thompson
Virginia Ruth Vanderhoff
Elsie Anna Warm
Kathryn Hazel West
Betty Jane Wilson
John Everett Wimer

BACHELOR OF SCIENCE

Susanna Jean Edmiston
Vivian Virginia Edmiston
Carl Kyselka
Herman Robert Otness
Elizabeth Cayle Patterson
Virginia Inadine Peck

Ruth Marie Ragan
Frank Amel Warner
James Harold Wayland
Violet Myrtle Werner
James Maurice Wilson

BACHELOR OF SCIENCE IN PRE-MEDICAL STUDIES

Eugene George Dahlkey
Helen Dorothea Douglas
Donald Eugene Keeler
Kyle Emmett Laughlin
Milton Cutts Lockwood
Clayton Girr Loosli

James McCampbell Lyle, Jr.
Harold Raymond Ostrander
Watt Henry Piercy
Burton Lyman Stewart
Melba Miles Todd
John Wayne Wurster

THE UNIVERSITY OF IDAHO

BACHELOR OF SCIENCE IN HOME ECONOMICS

Minnie Bauer
 Ruth Violet Bohman
 Hazel Myrtle Frazier
 Beulah Henrietta Kalbfleisch
 Josephine May Kincaid
 Esther Williams Lockwood

Mary Georgetta Miller
 Emily Berneice Osgood
 Thelma Dawson Pierce
 Ruby Ellen Pool
 Edna Mae Richards

BACHELOR OF SCIENCE IN PRE-NURSING STUDIES

Lorene Evelyn Cusick

Alice Stamm

College of Agriculture

BACHELOR OF SCIENCE IN AGRICULTURE

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 Robert Stewart Corless
 Harindar Singh Dinsa
 Boyd Faulkner
 Damon Milton Flack
 Alfred John Funke
 Grant Harvey Gibson
 Ardie Gustaf Gustafson
 Carey Chris Harman
 Theodore Roosevelt Horning
 Rosel Hyrum Hunter
 Alfred Wright Jackson

Mont Edmond Lewis
 Alfred Nielsen Maughan
 Ormond John Mosman
 Dorothy Sidney Perkins
 Carmen Peter Procopio
 Louis Cecil Reichman
 Paul LaVerne Rice
 John Arthur Sandmeyer
 Elmer Oluf Thorsen
 Rex Noble Toolson
 Ralph Lowe Williams
 Charles Leonard Wiseman

College of Engineering

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Willie Arnold Bross
 Vernon Tolleth Cairns
 Roger Florentin Paroz
 Arthur Vincent Werner

Paul Everett Werner
 Wendell Wickham Wilson
 Lyman Gustin Youngs

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 Paul Andrew Danilson
 Fred Ellis Dicus, Jr.
 George Martin Donnelly
 Harold George Doty
 Ralph Milton Hagen
 Oliver William Hall
 Jack Park Hartling
 Ernest Hatch

Alvin Carl Holmes
 John Christ Kugler
 Joseph Glover Lancaster
 John Lawrence Langford
 Merritt Hilliard McArthur
 James Franklin Meneely
 Redmond James Pangborn
 Robert Truman Pennoyer
 Laurence Martin Smith
 Currie Noel Teed

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Thomas William Galigher, Jr.

Harold Charles Parsons

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Harry Sutphin Owens
 Robert Reed Reynolds

Thomas Ivan Taylor

BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

James Carlton Marr

College of Law

BACHELOR OF LAWS

Raymond Jerome Compton
 Frank Howard Davison
 Joseph Robert Prewitt
 Russell Samuel Randall

Lawrence Weldon Schimke
 Patrick Henry Walker
 Eugene Spencer Ware

School of Mines

BACHELOR OF SCIENCE IN MINING ENGINEERING

Vernon Clark

BACHELOR OF SCIENCE IN GEOLOGY

John Tyer Carpenter

School of Forestry

BACHELOR OF SCIENCE IN FORESTRY

Richard Ivan Brown
 Clarence Paul Dittman
 Virgil Herman Eastman
 Herman Ficke
 Holt Fritchman
 Tyler Sherwood Gill
 William Stanley Hephner
 Edward Brenneisen Hill
 George Vincent Hjort
 James Morrison Hockaday

John Fred Hume, Jr.
 George Meredith Jemison
 Marvin S. Jeppesen
 Russell Kenneth LeBarron
 Clive John Lindsay
 Fred Riggle Newcomer
 Oren Franklin Schumaker
 Paul James Shank
 George Weeks Siewert
 James Ethelbert Sowder

School of Education

BACHELOR OF SCIENCE IN EDUCATION

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 Vinnie John Bell
 Vern E. Berry
 Pearl Kitch Black
 James Bruce Blake
 Burnis Burton Brigham
 Oscar Lee Brown
 Ruth Elizabeth Brown
 Vera Ellen Bryant
 George Robert Cerveny
 Virginia Helen Clark
 Orby David Cole
 Edward Albert Coon
 Blanche Martha Currie
 Ruth Agnes Daniels
 Harry Eugene Daubert
 Grace Hardie DuBois
 Edward Lester Ernsberger
 Virgil Eugene Estes
 Ruth Jean Fanning
 Nicholas Albert Fattu
 Jonas Craton Faulkner
 Margaret Emily Foss
 Merle Edwin Frizzelle
 Alta Howe Garrison
 Ruth Frances Garver
 Lucille Townsley Gaston
 Mary Carolyn Gillespie
 Lois Alyda Gillett

Gerald Gilbert Grimm
 Anna Geneva Handy
 Vera Lucile Harding
 Clifford Jay Harryman
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 Estelle Anne Jones
 Patricia Edith Lee
 Otto Lichti
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 Mary Elizabeth Myers
 Velma Frankie Myers
 Marjorie Helen Neale
 Clarence Herbert Oylear
 Nellie May Oylear
 Catharine Esther Patterson
 W. Emerson Platt
 Grace Pond
 Wilma Bevercombe Potter
 Esther Olga Rae
 Katherine Helen Roe
 Florence Marie Rudger

Dorothy Nell Sage
Zoa Lourana Shaw
Elizabeth Therese Simpson
Hazel Stellmon
Floyd Louis Suter
Frank James Tatum
Marguerite Lucille Thometz

Marjorie Throckmorton
Marjorie Woodworth Weber
Norma Higgs Werry
Marvin Booth Wilde
Floyd Edward Williams
Edna Violet Wilson
Inez Lanelle Winn

BACHELOR OF SCIENCE IN MUSIC EDUCATION

Dorothy Elizabeth Messenger
Lutie Mae Mitchell

Nina Kelso Newman
William David Shamberger

School of Business Administration

BACHELOR OF SCIENCE IN BUSINESS

Herbert William Aitchison
Wayne Forrest Blair
Edwin Jennings Carlson
Mildred Regina Carlson
James Morris Devery
Kenneth Andrew Dick
Edward Leonard Douglas
Kenneth Madden Egbert
Lillie Gallagher
Lee Randolph Gillette, Jr.
William Winfield Gorton
George John Greiser
Ray Addison Hall
James Clifton Hargrove
Edwin Casper Hill
Leonard Matthew Hill
Josephine Elizabeth Humphreys
Arthur Kryger
Ella Mae McAlister
James Boyd Matthews
James Morris Mitchell
Fred Miller Morris
Carl Emil Nicholson

Arthur Marvin Norby
Jack Thomas Parker
Frances Eleanor Philippi
Elmer Erwin Poston
Russell Francis Potter
Prudence Matilda Raby
Clyde William Raidy
Ralph Whitney Reed
Leonard Henry Reiniger
Walden Quincy Reiniger
Nathan Lemon Scott
Dorothy Virginia Shears
Dean Leroy Sherfey
Glenn LaForest Shern
Walter Arthur Slaughter
John Wesley Soden
Charles Edwin Springer
Donald Kenneth Stark
Julia Dolores Vallar
Galen Nesbit Willis
Catherine Adelma York
Wilford Roscoe Young

ADVANCED DEGREES

MASTER OF ARTS

George Robert Cerveney, B.S.(Ed.)
Agatha Lorraine Harding, B.S.
Julius Robert Lansberry, B.A.
Pauline Brown Matthews, B.A.

Janet Hawkins Montgomery, B.S.
Mary Clark Schock, A.B.
Lester Lorentz Schuldt, B.A.

MASTER OF SCIENCE

William Harold Boyer, B.S.
James Wesley Hawkins, B.S.(Pre-Med.)
Clayton Girr Loosli, B.S.(Pre-Med.)

Russell Conwell White, B.S.
Paul Vincent Woolley, Jr., A.B.

MASTER OF SCIENCE IN AGRICULTURE

John Theodore Montgomery, B.S.(Agr.) Frank Elisha Moore, B.S.

MASTER OF SCIENCE IN METALLURGY

Floyd Eli Albertson, B.S.(Min.E.) Joseph Newton, B.S.(Met.)

MASTER OF SCIENCE IN FORESTRY

Charles Allen Bickford, B.S.
Lowell Judson Farmer, B.S.(For.)

Mark Plunguian, B.S.

MASTER OF SCIENCE IN EDUCATION

Ralph Edgar Brown, B.S.	Ken Foote Shepardson, B.S.
Joseph Patrick Cogan, B.A.	Craig Livingston Smith, A.B.
Nicholas Albert Fattu, B.S.(Ed.)	R. Lynn Spillman, B.A.
Dwight Joyce Ingle, B.S.(Ed.)	Bela Toth, B.S.(Ed.)

ELECTRICAL ENGINEERING

William Schroeder, B. S.(E.E.)

MECHANICAL ENGINEERING

Paul Shirvington Ballif, B.S.(M.E.) Howard Ward Mason, B.S.(M.E.)

COMMISSIONS AND CERTIFICATES

COMMISSIONED AS SECOND LIEUTENANTS

Officers' Reserve Corps, United States Army

Joel Grant Anderson	Elmer Hans Johnson	Martin Bernard Rosell
Bruce Maxwell Bunker	Ray Hansen Kelley	Frank Delmore Smuin
John Arthur Croy	Stuart F. Kimball	John Joseph Sullivan, Jr.
Kenneth Andrew Dick	John Christ Kugler	(Certificate of Eligibility)
John Bruce Dodd	Bernard Louis Lemp, Jr.	George Robert Swindaman
Paul Gerald Dolan	Joseph Hardy McCown	Frank James Tatum
Edward Leonard Douglas	Jack Francis McQuade	Vining Clyde Thompson
Lawrence Francis Fleming	David Reynold Nelson	Elmer Oluf Thorsen
John Charles Herndon	Harold Charles Parsons	Charles Linnaeus Walker
(Certificate of Eligibility)	Ralph Whitney Reed	Arthur Vincent Werner
Theodore Roosevelt Horning	Marion Rex Reilly	Ervin LaVern Werner
Eugene Eiler Hutteball		Milton Morse Williams
(Certificate of Eligibility)		Lyman Gustin Youngs

TO BE COMMISSIONED AS SECOND LIEUTENANTS OF INFANTRY

Officers' Reserve Corps, United States Army, Upon Completion of Camp Training

Clarence Edward Conway	William Stanley Dolan	John Jay Taggart
Paul Andrew Danilson	Harold George Doty	Paul Everett Werner
	Dynes Harry Lawson	

Completed R.O.T.C. course at the University and Commissioned as Second Lieutenant in the Officers' Reserve Corps as Result of Final Examination

David Otto Ehrenburg

The following (additional) members of the graduating class have previously received commissions in the Officers' Reserve Corps, United States Army

Virgil Eugene Estes	Oliver William Hall	James McCampbell Lyle, Jr.
Damon Milton Flack	Carey Chris Harman	W. Emerson Platt
Thomas William Galigher, Jr.		Patrick Henry Walker

Final Honor List, Class of 1931

For the conditions upon which honors are awarded, see page 15.
Names are arranged in alphabetical order in each group.

HIGHEST HONORS

Mildred Marion Axtell	Virginia Agnes Merriam
Pearl Kitch Black	Bethel Joy Packenham
Grace Hardie DuBois	Grace McClintock Parsons
Alta Howe Garrison	John Arthur Sandmeyer
Julia Glenn Hunter	James Harold Wayland

HIGH HONORS

George Robert Cerveny
 Virginia Helen Clark
 Lena Catherine Clifford
 Ernest Emmons Coleman
 Raymond Jerome Compton
 Lorene Evelyn Cusick
 Kenneth Andrew Dick
 Harindar Singh Dinsa
 Vivian Virginia Edmiston
 Lucille Townsley Gaston
 Anna Geneva Handy
 John Charles Herndon
 Leonard Matthew Hill

George Meredith Jemison
 Alma Faye Johnson
 Mary Charlotte Lefever
 Dorothy Elizabeth Messenger
 Ruth Victoria Mortenson
 Nellie May Oylear
 Redmond James Pangborn
 Grace Pond
 Nathan Lemon Scott
 Zoa Lourana Shaw
 Burton Lyman Stewart
 Elsie Anna Warm
 Inez Lanelle Winn

PART VIII
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PART VII
List of Students
Enrollment Statements
Index

List of Students

GRADUATE STUDENTS IN RESIDENCE

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
*Allen, Vada Hazel, B.S. 1927, University of Idaho		Botany	Moscow
Banks, Mary E. Norie, M.A. 1926, University of Washington			Moscow
*Barnard, Berenice Nellie, B.M. 1930, University School of Music, Nebraska		Education	Superior, Nebr.
Barrett, Lawrence Temple, Ph.B. 1931, Gonzaga University		Chemistry	Spokane, Wn.
Bell, Bessie Amelia, B.S.(Ed.) 1929, University of Idaho		Education	Boise
Bell, Roscoe Ernest, M.S.(Agr.) 1930, Washington State College			Moscow
*Bell, Vinnie John, B.S.(Ed.) 1931, University of Idaho		Education	Farmington, Wn.
*Benjamin, Lester Vance, B.S. 1920, Michigan State College		Agronomy	Moscow
Beth, Elmer Frederick, M.A. 1928, University of Wisconsin		Education	Moscow
Bever, Wayne Melville, M.S.(Agr.) 1928, University of Idaho			Moscow
Blanchard, Fred Clayson, M.A. 1929, University of Washington		Education	Skagway, Alaska
Boas, Ruth Hawkins, M.A. 1928, University of Idaho			Moscow
Bolin, Donald William, B.S. 1926, University of Wisconsin		Agricultural Chemistry	Moscow
Bolin, Margaret Knudson, B.S.(Ed.) 1930, University of Idaho		Education	Moscow
Brinkman, Emil Frederick, B.S.(Agr.) 1927, University of Idaho			Moscow
Buchanan, Leah Tuttle, B.S. 1930, University of Idaho		Agricultural Education	Moscow
Burke, Joseph William, B.S.(Ed.) 1932, University of Idaho		Philosophy	Moscow
*Calland, Leo Blakeley, B.A. 1923, University of Southern California		Education	Otis Orchards, Wn.
Carpenter, John Tyer, B.S.(Geol.) 1931, University of Idaho		Petrology	Moscow
Cassell, Irene Mary, M.A. 1930, Drake University			Des Moines, Ia.
Cassell, Robert Calder, B.S. 1930, Iowa State College		Plant Pathology	La Harpe, Ill.
Chamberlain, Lawrence Henry, B.S.(Ed.) 1930, University of Idaho		Political Science	Moscow
Cherrington, Virgil Arthur, M.S. 1930, University of Idaho			Moscow
Cheuvront, Edwin Cecil, B.S.(Ed.) 1928, University of Idaho		Education	Summit
Cody, Edmund Raymond, A.B. 1922, Mt. St. Mary's College		American History	Moscow
Coleman, Edith Abbott, B.S.(Ind.Journ.) 1923, Kansas State Agricultural College			Moscow
Collette, Elsie Jean, B.A. 1928, University of Idaho		English	Burley
*Correll, Theodore Harrison, B.S. 1927, University of Idaho		Education	Moscow
Cuddy, Margaret Elizabeth, B.S.(Ed.) 1930, University of Idaho		Philosophy	Boise
Davison, Elmer Edgar, M.B.A. 1930, University of Washington			Moscow
Davison, Nina Walker, B.B.A. 1923, University of Washington		Education	Moscow
Deane, Sidney Edward, B.C.E. 1907, University of Arkansas		Civil Engineering	Moscow
DeWinter, Gertrude Margeurite B.S.(Ed.) 1932, University of Idaho		Education	Moscow
Diettert, Reuben Arthur, M.S. 1927, Michigan State College			Moscow
Edmiston, Susanna Jean, B.S. 1931, University of Idaho		Chemistry	Spokane, Wn.
Edmiston, Vivian Virginia, B.S. 1931, University of Idaho		Chemistry	Spokane, Wn.
Farmer, May Parks, A.B. 1916, Oberlin College			Moscow
Ficke, Arthur Benjamin, B.S.(Agr.) 1926, University of Idaho		Animal Husbandry	Payette
Finch, Nancy Allen, B.A. 1930, University of Colorado		Bacteriology	Moscow
Fitzgerald, Oren Aram, B.A. 1923, University of Idaho		Philosophy	Moscow
Foskett, Lawrence Wilson B.S.(E.E.) 1925, University of Idaho		Physics	White Bird
*Fox, Mary Elizabeth, A.B. 1919, Dakota Wesleyan University		English	Moscow
*Frazier, Leonard, B.S.(Ed.) 1929, University of Idaho		Education	Lewiston
Fredrickson, Dorothy Mary, B.M. 1930, University of Idaho			Malad
Gale, Clair Edward, B.S.(Bus.) 1930, University of Idaho		Education	Bonnars Ferry
*Garrison, Alta Howe, B.S.(Ed.) 1931, University of Idaho		Education	Moscow
Garver, Ruth Frances, B.S.(Ed.) 1931, University of Idaho		Education	Boise
Gillette, Lee Randolph, B.S.(Bus.) 1931, University of Idaho			Lewiston
Grimm, Gerald Gilbert, B.S.(Ed.) 1931, University of Idaho		Education	Boise
Haegle, Rowland Wells, A.B. 1915, Leland Stanford University		Entomology	Parma
Hansen, Henry Christian, M.S.(Agr.) 1927, University of Idaho			Moscow
Harman, Carey Chris, B.S.(Agr.) 1931, University of Idaho		Horticulture	Moscow
Harper, Willard Whitfield, A.M. 1931, University of Kansas			Moscow
Hauck, Louise Bertha, B.A. 1931, University of Idaho		Education	Moscow

*Students registered in regular session 1931-32 and Summer School 1931.

THE UNIVERSITY OF IDAHO

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
Hepher, William Stanley, B.S.(For.) 1931, University of Idaho	Wood Chemistry	Boswell, B.C.	
Herrick, Don Henry, M.A. 1928, University of Kansas		Moscow	
Hickman, Cuthbert Wright, M.S.(Agr.) 1928, University of Idaho		Moscow	
Hite, Thomas Hugh, M.S. 1930, University of Idaho		Moscow	
Hockaday, James Morrison, B.S.(For.) 1931, University of Idaho	Education	Moscow	
Hollingshead, Lawrence Leonard, B.S. 1932, University of Idaho	Psychology	Boise	
Horning, Theodore Roosevelt, B.S.(Agr.) 1931, University of Idaho			
Houtchens, Lulu Grace, B.S.(Ed.) 1929, University of Idaho	Agricultural Engineering	Moscow	
Howard, Sarah Bridgers, M.A. 1924, University of Texas	Education	Moscow	
Howerton, Dorothy, B.S.(H.Ec.) 1928, University of Idaho	Education	Oklahoma City, Okla.	
Hulbert, Harold Watkins, M.S. 1917, Iowa State College		Moscow	
Isaak, Philip, M.S.(Agr.) 1930, University of Missouri		Moscow	
*Jackson, Alfred Wright, B.S.(Agr.) 1931, University of Idaho	Agricultural Education	Moscow	
*Jacoby, Glenn James, B.A. 1928, University of Idaho	Education	Moscow	
Jahn, Helen Louise, M.A. 1929, McGill University		Moscow	
Johnson, Ernest, B.A. 1931, Illinois College	Zoology	Los Angeles, Cal.	
Jones, Kenneth Paul, B.S.(Ed.) 1930, University of Idaho	Education	Moscow	
Kulp, Mark Rupp, B.S.(C.E.) 1908, Colorado Agricultural College			
Lawrence, Ruth Catherine, B.A. 1926, University of Idaho	Agricultural Engineering	Moscow	
Locke, Mabel, B.S. 1929, Northwestern University	Education	Cottonwood	
Lundquist, Raynard Victor, B.S.(Chem.E.) 1929, University of Idaho		Colorado Springs, Colo.	
McIlhattan, James Alton, B.S. 1931, Montana State College	Dairy Husbandry	Helena, Mont.	
Makara, Frank Russell, B.S. 1932, New York State College of Forestry			
Mark, Frederick Albert, B.S.(Agr.) 1932, University of Idaho	Wood Chemistry	New York, N.Y.	
Maulding, Charles Cecil, B.A. 1929, College of Idaho	Agronomy	Blackfoot	
Melgard, Helen Winifred, M.A. 1931, University of California	Philosophy	Caldwell	
Miller, Douglas Reed, B.S. 1928, Oregon State Agricultural College	Education	Moscow	
Miller, Harry, A.M. 1927, University of Missouri	Forest Pathology	Moscow	
Mlyneck, Frank Leonard, B.S. 1931, Iowa State College		Moscow	
Moore, William Cloud, B.S.(Bus.) 1930, University of Idaho	Dairy Husbandry	Jamaica, Ia.	
Mortenson, Ruth Victoria, B.A. 1931, University of Idaho	Economics	Wallace	
Moser, Alphonse Stephen, B.S.(Ed.) 1932, University of Idaho	Education	Moscow	
*Nelson, Emma Viola, B.A. 1929, University of Idaho	English	Moscow	
Nonini, Francis Vitto, B.S.(Ed.) 1930, University of Idaho	Education	Mackay	
*Norgaard, Floyd Loren, B.A.(Ed.) 1931, Washington State College	Education		
Oliver, Roger Peterson, A.B. 1922, Augustana College	East Stanwood, Wn.		
*Otness, Herman Robert, B.S. 1931, University of Idaho	Philosophy	Moscow	
Otter, Floyd Leslie, B.S.(For.) 1929, University of Idaho	Education	Moscow	
Packenham, Bethel Joy, B.A. 1931, University of Idaho	Silviculture	Moscow	
Packenham, Howard Emerson, B.A. 1920, College of Idaho	English	Boise	
Pangborn, Redmond James, B.S.(E.E.) 1931, University of Idaho	English	Moscow	
Peck, Virginia Inadine, B.S. 1931, University of Idaho	Electrical Engineer		
Pierson, Royale King, B.A. 1931, University of Montana	Zoology	Tacoma, Wn.	
Pontius, Rex Burns, B.S. 1932, University of Idaho	Forest Pathology	Buhl	
Pooler, Henry Gordon, B.S.(Min.) 1931, Case School of Applied Science	Physics	Missoula, Mont.	
Poyneer, Almeda Marie, B.A. 1925, University of Washington	Metallurgy	Lewiston	
Pratt, Walter Earle, B.E. 1930, Milwaukee State Teachers College		Cleveland, Ohio	
Priebe, Melcher Walter, B.S.(Ed.) 1929, University of Idaho	Education	Everett, Wn.	
Raeßer, J. Milford, M.S.(Agr.) 1920, Iowa State College		Milwaukee, Wis.	
Ragan, Ruth Marie, B.S. 1931, University of Idaho	Education	Twin Falls	
Reck, William Herman, B.S.(Met.) 1931, Michigan College of Mining and Technology	Zoology	Moscow	
Reierson, Ellen, M.S.(Ed.) 1926, University of Idaho	Metallurgy	Lewiston	
Remsberg, Ruth Elizabeth, M.S. 1929, University of Idaho		St. Joseph, Mich.	
Rice, Paul LaVerne, B.S.(Agr.) 1931, University of Idaho		Troy	
*Ridge, Susie May, B.S. 1929, University of Idaho	Entomology	Moscow	
*Roberts, Harold Burr, A.B. 1925, Gooding College	Botany	Parma	
Sandmeyer, John Arthur, B.S.(Agr.) 1931, University of Idaho	Education	Moscow	
Schimke, Lawrence Weldon, LL.B. 1931, University of Idaho		Gooding	
*Schock, Benjamin Frank, A.B. 1911, Nebraska Wesleyan University		Buhl	
		Twin Falls	
		Star	

*Students registered in regular session 1931-32 and Summer School 1931.

LIST OF STUDENTS

249

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
*Schock, Eldon Donald, A.B. 1915, Nebraska Wesleyan University		Education	Moscow
Shaw, Alfred O., B.S.(Agr.) 1932, University of Idaho		Dairy Husbandry	Moscow
Sherman, Theodore Allison, A.B. 1924, Stanford University		English	Moscow
Smith, Walter Wayne, M.S.(Ed.) 1928, University of Idaho			Moscow
Sowder, Arthur Merrill, M.S.(For.) 1927, University of Idaho			Moscow
Space, George Christian, B.A. 1921, University of Idaho		History	Orofino
Spence, Liter E., M.S.(For.) 1930, University of California			Moscow
Staley, William Wesley, M.S.(Met.) 1929, University of Idaho			Moscow
St. Clair, Margaret, B.A. 1931, University of Washington			Idaho Falls
Stouffer, David James, B.S. 1926, Michigan State College		Forest Pathology	East Lansing, Mich.
Stowell, Harold Bowman, B.S.(Ed.) 1932, University of Idaho		Education	Pocatello
Taylor, Thomas Ivan, B.S.(Chem.E.) 1931, University of Idaho		Chemical Engineering	Rigby
Theophilus, Donald Richard, M.S. 1924, Iowa State College			Moscow
*Tierney, William Michael, A.B. 1931, Washington State College		Education	Uniontown, Wn.
Tullis, Edward Langdon, Geol.Engr. 1930, Colorado School of Mines		Geology	Moscow
Turinsky, Otto, B.S.(Chem.E.) 1929, University of Idaho		Chemistry	Moscow
Udell, Stewart Harvey, M.S.(Geol.) 1928, University of Idaho			Moscow
Vogel, Harold Aaron, M.S. 1930, University of Minnesota			Howard Lake, Minn.
Wanous, Hildegarde, M.A. 1927, University of Minnesota			Glenview, Minn.
Ward, Marguerite Ruth, B.A. 1929, University of Idaho		History	Moscow
Warren, Theodore Roosevelt, M.S.(Agr.) 1928, Kansas State Agricultural College			Moscow
Wedgwood, George Warren, B.S.(Pre-Med.) 1932, University of Idaho		Zoology	Boise
White, Russell Conwell, M.S. 1931, University of Idaho			Salmon
Williams, James Kenneth, B.S. 1930, Texas Agr. and Mech. College		Agricultural Chemistry	Denison, Tex.
Wilson, James Maurice, B.S. 1931, University of Idaho		Education	Kuna
Wood, Ronald Ellsworth, B.S.(Agr.) 1917, University of Idaho			Payette
*Yost, Ada Martha, B.A. 1926, University of Idaho		English	Blackfoot
Youngstrom, Carol Oscar, B.S. 1928, Oregon State Agricultural College			Moscow
Youngs, Lyman Gustin, B.S.(C.E.) 1931, University of Idaho		Civil Engineering	Moscow
TOTAL RESIDENT GRADUATE STUDENTS.....			142

GRADUATE STUDENTS IN PARTIAL ENROLMENT

Bell, Georgia Mae	Education	Moscow
Bell, Robert Homer	Zoology	Moscow
Byrne, Edward Patrick	Agricultural Economics	Moscow
DeKay, Edwin Roy	Animal Husbandry	Blackfoot
Dodd, Jack Bruce	Entomology	Spokane, Wn.
Fifield, Charles Edward	Education	Lumden Sask., Can.
Greene, Robert Fulton		Culdesac
Isenberg, Edward Hoyt	Education	Troy
McKeirnan, Agnes Cletus	English	Pomeroy, Wn.
Parmer, Karam Singh	Economics	Punjab, India
Robb, Harry Alexander	American History	Nampa
Steele, Ruth Edna	Education	Gooding
Thomas, Georgia Emma	Education	Moscow

UNDERGRADUATE STUDENTS

Symbols in the following lists are to be interpreted thus:	ar. Architecture	me. Mechanical Engineering
Freshman 35-36	b. Business	med. Pre-Medical
Sophomore (or 1st-yr. Law) 34	ce. Civil Engineering	met. Metallurgy
Junior (or 2nd-yr. Law) 33	ch. Chemical Engineering	min. Mining Engineering
Senior (or 3d-yr. Law) 32	ed. Education	m. Music
a. Bachelor of Arts	ee. Electrical Engineering	mus.ed. Music Education
ag. Agriculture	f. Forestry	n. Pre-Nursing
ae. Agricultural Engineering	g. Geology	s. Bachelor of Science
	h. Home Economics	sm. Public School Music
	jc. Junior College	sp. Special
	law. Law	

A

Aas, Alma 33 jc.....Moscow	Adams, Violet Minnie 32 ed.....Twin Falls
Aas, Martha 35 jc.....Moscow	Adams, Virginia Marian 35 jc.....Twin Falls
Adams, Charles Ambrose 32 b.....Boise	Adamson, Isa Mary 34 b.....Carey
Adams, Myra Lea 35 ed.....Nampa	Adkins, Elmer Harold 32 ed.....Kimberly
Adams, Robert Kingsley 35 me.....Boise	Adriansen, Alice 35 jc.....Moscow
Adams, Thomas Russell 35 jc.....Twin Falls	Adriansen, Esther 35 jc.....Moscow
	Afshar, Haji Azadi 36 min.....Rezeyeh, Persia
	Ahlskog, Ralph Hugh 33 f.....Coeur d'Alene

*Students registered in regular session 1931-32 and Summer School 1931.

- Albee, Harold Edwin 35 ag.....Weiser
 Albee, Leslie Raymond 35 f.....Weiser
 Albert, Ethelyn Margery 35 jc.....Boise
 Albertson, Bernard Brande 35 jc.....Parma
 Aldcoa, Maurina Juanita 35 ed.....Boise
 Alden, Andrew Earl 34 ed.....Bovill
 Aldridge, Hollice M. 35 f.....Bonners Ferry
 Alexander, Kathleen Antonia 35 ed.....Bovill
 Allison, John Howard 35 jc.....St. Paul, Minn.
 Altnow, Howard Curtis 33 a.....Spokane, Wn.
 Alworth, Robert Earl 32 ee.....Filer
 Ames, Robert Edgar 35 me.....Emmett
 Amos, Melton Henry 34 law.....Preston
 Amstutz, Helen Coanina 35 ed.....Glenns Ferry
 Anderson, Clifford Gladstone 35 ed.....Moscow
 Anderson, David Alvin 33 a.....Moscow
 Anderson, Ethel Mae 33 h.....Jackson, Mont.
 Anderson, Frank William 35 ee.....Emida
 Anderson, Gilmore 35 ag.....Moscow
 Anderson, Gus Carr 33 law.....Pocatello
 Anderson, James Gordon 35 ee.....Craigmont
 Anderson, Jesse 35 jc.....Idaho Falls
 Anderson, Joel Grant 32 a.....Ogden, Utah
 Anderson, Paul Luther 35 f.....Spokane, Wn.
 Anderson, Raold Leonard 34 ag.....Nezperce
 Andrasen, Velma 32 ed.....St. Anthony
 Andrasen, Venna 32 ed.....St. Anthony
 Andrews, Milton Dale 32 f.....Copeland
 Anell, Arthur Bernard 35 ee.....Moscow
 Angney, David Harry 32 a.....Elk River
 Aram, John Lorenzo 35 jc.....Joseph
 Aram, Rosamond Frances 34 jc.....Joseph
 Archer, Frank 33 ed.....Moscow
 Armour, James Van 35 jc.....Moscow
 Armour, Sue Compton 32 mus.ed.....Moscow
 Armstrong, Doris Lucille 34 jc.....Cascade
 Armstrong, Francis Clarence 34 jc.....St. Anthony
 Armstrong, Keith Hirlinger 34 jc.....Troy
 Armstrong, Williamina Elizabeth 33 h.....Moscow
 Arnett, Howard 35 me.....Wallace
 Arnold, Stanley Dean 32 law.....Prescott, Wn.
 Asal, Donald Eugene 35 f.....Boise
 Ash, Irene Mae 33 a.....Rupert
 Ashbrook, Robert Lewis 35 jc.....Spokane, Wn.
 Ashcraft, Jacob Osborn, Jr. 34 ch.....St. Anthony
 Ashlee, Thomas Reginald 33 s.....Moscow
 Asire, William John 33 ee.....Blackfoot
 Assendrup, Ray Anthony 33 ee.....Twin Falls
 Attridge, William James 32 ce.....Rigby
 Aukett, Daniel Burke 33 ed.....Spokane, Wn.
 Aust, Paul William 32 f.....Spokane, Wn.
 Austin, Robert Barnes 34 min.....Spokane, Wn.
 Axelsen, Milo Clifton 34 law.....Clear Lake, Ia.
 Axtell, Gertrude Mary 34 jc.....Moscow
- B**
- Babcock, Miriam Dorothy 35 jc.....Twin Falls
 Babcock, William Arthur, Jr. 32 a.....Twin Falls
 Bacher, Allan Walker 34 me.....Boise
 Baetkey, William Henry 32 b.....Emmett
 Bailey, George Lee 35 ce.....Kendrick
 Bailey, Henry William 35 me.....Worley
 Baily, Robert Danforth 32 min.....Spokane, Wn.
 Baken, Frances Leora 34 ed.....Moscow
 Baken, Harriet Inegene 34 jc.....Moscow
 Baker, Andrew Francis 33 ed.....Spirit Lake
 Baker, Charles Burnell 34 ed.....Gooding
 Baker, Herman Marion 35 jc.....Potlatch
 Baker, Russell Franklin 35 jc.....Southwick
 Baker, Wallace Edgar 35 jc.....Boise
- Ball, Leona Nessly 32 a.....Moscow
 Ballif, Howard Maurice 32 b.....Whitney
 Bandelin, Betty 35 jc.....Sandpoint
 Bandelin, Glenn Edmund sp law.....Sandpoint
 Barclay, George Edward 33 ce.....Burley
 Barker, Beulah Elizabeth 33 a.....Buhl
 Barker, Edwin Roy 34 ed.....Kellogg
 Barker, Robert Eugene 35 ed.....Weiser
 Barnard, Thomas Albert 34 met.....Anaconda, Mont.
 Barnes, Evelyn Marie 33 h.....Pocatello
 Barrett, Afton 33 ed.....Pocatello
 Barrett, Arthur Clair 32 a.....Pocatello
 Bartholow, Gerald Haynes 32 b.....Lewiston
 Bartlett, Virginia Louise 35 jc.....Boise
 Bateman, Leona Marjorie 32 h.....Moscow
 Bateman, Merle Ellen 35 jc.....Moscow
 Bateman, Winifred 35 jc.....Moscow
 Bauer, Mark Ray 35 f.....Spokane, Wn.
 Bauman, Jack Rudolph 33 me.....Nampa
 Baumgartner, Victor John 33 ar.....Nampa
 Bean, James Robert, Jr. 35 jc.....Wallace
 Bean, Roberta Mabel 34 jc.....Wallace
 Beardmore, George Wolcott 33 law.....Priest River
 Bearss, Ernest Herbert 35 ed.....Grants Pass, Ore.
 Beasley, Robert Gray 33 ag.....Idaho Falls
 Beatty, Thad 35 jc.....Boise
 Beckstead, Myrthan Kenneth 33 ag.....Whitney
 Beers, Francis Davison 33 ed.....Kamiah
 Beimfohr, Casper Van Dyke 35 jc.....Evanston, Ill.
 Bell, Alice Miriam 35 mus.ed.....Moscow
 Bell, Elizabeth Gail 32 h.....Spokane, Wn.
 Bell, Georgia Mae 32 ed.....Moscow
 Bell, Robert Homer 32 med.....Moscow
 Bell, Roberta 33 h.....Spokane, Wn.
 Bell, Thomas Donald 32 ag.....Rupert
 Bellinger, Glenn LaMon 33 law.....Wallace
 Bellinger, Lawrence John 35 jc.....Boise
 Benfer, Hugh William 33 jc.....Weiser
 Bennett, Evelyn Mae 35 ed.....Moscow
 Bennett, Joseph Albert 35 ag.....Boise
 Bennett, Juanita June 35 ed.....Coeur d'Alene
 Bennett, Robert Winston 35 jc.....Mountain Home
 Benett, Ross Aubrey 32 ed.....Prosser, Wn.
 Benson, Benny Bernard 35 me.....St. Maries
 Benson, Fredolph Swen 35 me.....St. Maries
 Benson, Helen Marie 32 b.....Coeur d'Alene
 Benson, Rudolph John 34 f.....St. Maries
 Benson, Valdo Dunkley 35 ag.....Whitney
 Berg, Alfred William 35 ed.....Idaho Falls
 Berg, Howard Edwin 32 ed.....Idaho Falls
 Berg, Lloyd Wesley 33 a.....Pocatello
 Berg, Paul Henry 35 ce.....Idaho Falls
 Bergen, Harold George 35 jc.....Filer
 Bergh, Alberta 35 ed.....Boise
 Berglund, Eleanor Ruth 32 ed.....Coeur d'Alene
 Berreman, Beulah 33 h.....Walla Walla, Wn.
 Berryman, Walter Raymond 35 jc.....Blackfoot
 Bertram, Marie Louise 34 ed.....Payette
 Bessler, William Donald 32 min.....Portland, Ore.
 Best, Gladys Irene 35 jc.....Clarksfork
 Betts, Russell Alonson 34 ed.....Southwick
 Bever, William Payne 34 ag.....Moscow
 Bevis, Vincent Poole 35 ed.....Portland, Ore.
 Bigornia, Andrew Bandayrel 33 a.....Naguilian, P.I.
 Biladeau, Archie Loyd 33 met.....Boise
 Bircumshaw, John Willis 35 ed.....Wallace
 Birondo, Jose Vargas 35 ag.....San Carlos, P.I.

Bjorklund, Edward Morris 34 jc
Coeur d'Alene
Blackburn, Clara Morse 33 b American Falls
Blackburn, Howard 32 med. American Falls
Blair, John Ellwood, Jr. 32 med
Spokane, Wn.

Blair, Robert Earnshaw 34 jc. Spokane, Wn.
Blake, William Johnston 35 jc. McCall
Blattner, Orrin Fredric 36 ag. Weiser
Blewett, Nelson Richard 35 jc. Kooskia
Bloom, Alice Marie 35 jc. Elk River
Bloom, Frances Margaret 32 ed. Elk River
Bockwitz, Dahrl Elizabeth 32 h. Twin Falls
Bodily, Elden 35 ag. Preston
Bodily, Howard Lynn 35 ag. Whitney
Bolingbroke, Dave Henry 33 ag. Malad
Bolton, Arthur Delbert 34 ag. Gooding
Booker, Fred John 32 ed. Potlatch
Boomer, Evelyn Jean 35 jc. Payette
Bopp, Earl Anthony 35 jc. Sandpoint
Boro, Delmont Duncan 35 ed. Enaville
Bourasa, William Joseph 35 jc. Potlatch
Bovey, Franklyn Wesley 33 ed. Craigmont
Bow, Wilson Francis 35 ch. Bowmont
Bowler, Holden 34 jc. Gooding
Bowler, William Bruce 34 jc. Gooding
Bowman, Walter Stephen 35 jc. Lewiston
Boyce, Richard Ellis 35 ee. St. Maries
Boyd, Clayton William 33 mus. ed. Idaho Falls
Boyd, Harold Robert 34 jc. Moscow
Bradshaw, Kenneth Pence 34 jc. Wendell
Bradshaw, Nordahl Albert 34 ee. Wallace
Brailsford, Frederick Marshall 33 b

Twin Falls
Brailsford, William Spencer 34 jc Twin Falls
Brandt, Catherine Margarette 33 ed. Nampa
Brasch, Ernest Frederick 32 me. Nezperce
Braun, Al Edward 33 s. Coeur d'Alene
Breckenridge, Josephine Anna 35 ed. Boise
Breen, James Joseph 34 jc. Coeur d'Alene
Brians, Rayburn Leslie 33 ed. Nampa
Bridwell, William Allan 35 jc. Kamiah
Brigham, Laura Nellie 34 mus. ed. Genesee
Brigham, Maybelle Jones 33 ed. Moscow
Brody, Ruth 34 jc. Moscow
Broemeling, Rose Mary 35 jc. Genesee
Brooten, Kenneth Edward 35 ag
Coeur d'Alene

Brosnan, Mary Helen 32 a. Moscow
Brossard, Enid Cecil 33 ed. Rigby
Brown, Charles Edward 35 ag. Belmont
Brown, Charles Odell 34 ag Los Angeles, Cal.
Brown, Clarence Williams 35 f. Homedale
Brown, Donald Olvir 35 ed. Moscow
Brown, Dott Elizabeth 34 jc. Boise
Brown, Eva Jane 34 jc. Hope
Brown, Harold Forbes 32 ag. Belmont
Brown, Harold Gilson 32 f

Port Townsend, Wn.
Brown, James Pleas 33 f. Hot Springs, Ark.
Brown, Lester Raymond 35 jc. Sandpoint
Brown, Robert Eugene 32 law. Arco
Brown, Wallace Morell 34 me

Port Townsend, Wn.
Brown, Warren Harrington 34 jc. McCall
Brown, Willis James 33 me. Huston
Bruesch, Ada Belle 33 a. Almo
Bruning, Roland John 35 jc. Burke
Buchanan, Owen, Jr. 33 b. Twin Falls
Buckingham, Flora Noyes 33 ed

Hanford, Wn.
Bue, Melius Kenneth 35 jc. Moscow
Bue, Palmer Winslow 32 ce. Moscow
Buell, Carl Monroe 35 jc. Calder

Bull, Alec Lemuel 35 jc. Princeton
Bumgarner, Ruth Ellen 36 jc. Moscow
Bunch, Jeanette Harriet sp a. Moscow
Burdick, Robert 34 jc. Wilder
Burke, Arthur Wayne 34 ed. Montpelier
Burnett, Hugh Benedict 34 ar Newport, Wn.
Burnett, Lois Lenore 34 ed. Moscow
Burnett, Loyd Alvie 34 f. Moscow
Burns, Russell Johnson 33 a. Pocatello
Bush, Mary Louise 34 jc. Moscow
Byrne, Eddie Patrick 32 b. Richfield

C

Cagle, Howard Hughling 34 ag. Boise
Cairns, Charles Nelson 34 ce. Meridian
Calkins, Wesley Emil 33 ag. Moscow
Callahan, Francis Burtram 35 ch. Moscow
Callahan, Michael Byron 35 ed. Moscow
Callahan, Patrick Shannon 33 ed. Moscow
Calvert, Arnold 33 b. Lewiston
Calvin, Oliver Bud, Jr. 35 jc. Greer
Campbell, Andrew Gray 33 ed. Idaho Falls
Campbell, Carol Joy 35 jc. Rosalia, Wn.
Campbell, Dan McCallum 35 jc

Spokane, Wn.
Campbell, Duard Fred 34 ag. Hammett
Campbell, Lionel Thaddeus 32 a. Boise
Carlson, Carl Gunnard 35 ed. Coeur d'Alene
Carlson, Charles Edward Malcolm 35 f
Jamestown, N.Y.

Carlson, Oscar Wilhelm 35 me. Moscow
Carnefix, Wendell Paul 33 ag. Fruitland
Carnes, Donald Pemble 34 met. Salmon
Carney, Helen Elizabeth 32 b. Boise
Carothers, Frank 35 jc. Rosalia, Wn.
Carpenter, Owen Oakley 33 ee. Moscow
Carpenter, Robert Dickerson 35 min. Salmon
Carpenter, Vinnie Elma sp a. Moscow
Carter, Winton Favor 35 ch. Boise
Cartwright, Harry Robert 35 jc. Payette
Cash, Elaine Ellen 34 a. Spokane, Wn.
Chaffins, Clyde Jean 35 jc. Coeur d'Alene
Chamberlain, Dorothy Harriet 34 jc

White Bird
Chandler, Ellen Dorothy 33 ed. Emmett
Chapman, Dorothy Priscilla Alden 33 h

Boise
Chase, Irving Maxon 35 ed. Post Falls
Cheney, Charles Graham 32 b. Montpelier
Chenoweth, Edith 32 a. Moscow
Chenoweth, Mary Elizabeth Anne 33 a

Moscow
Cherutti, Angelin 35 jc. Moscow
Chestnut, Thomas William 34 b. Moscow
Christensen, Bernice Taylor 35 jc Idaho Falls
Christensen, Chester 32 s. Idaho Falls
Christian, Harvey Samuel 35 ce

Port Townsend, Wn.
Christians, Jerome James 33 b. Kellogg
Clagett, William Horace 33 ee. Kellogg
Clare, Bessie Lois 33 h. Cambridge
Clare, Mildred Colen 33 ed. Cambridge
Clark, Arthur Wayne 34 ag. Picabo
Clark, William Benton 35 jc. Moscow
Clarke, C. Worth 35 ch. Rigby
Clayton, Austin Bond 34 g. Sandpoint
Clemons, Dale Darrel 34 ag. Gooding
Cline, Harry Franklin 33 ag. Emmett
Cline, William Henry 34 ag. Hanson
Clough, Jean Emily 35 jc. Weiser
Cobb, Edward Bert 34 ag. Boise
Coffin, Harold Walter 33 law. Spokane, Wn.
Collado, Santiago Mejia 34 me Villasis, P.I.
Collins, Erma Beatrice 33 ed. Moscow

- Collins, Kathryn Janet 33 ed.....Moscow
 Collins, Mildred Lucile 35 jc.....Moscow
 Congdon, Nathaniel Ward 34 med.....Boise
 Conger, Gene Moore 32 b.....Victor
 Connaughton, Teresa Elizabeth 33 a.....Boise
 Connolly, William Thomas 35 min.....Harrison
 Conover, Gillard Osborne 35 jc.....Payette
 Conway, Julia 34 jc.....Boise
 Conwell, Willard Irven 35 f.....Costa Mesa, Cal.
- Cook, Carolyn Ruth 34 jc.....McCall
 Cook, Howard Loren 36 jc.....Coeur d'Alene
 Cook, John Bannister 33 f.....McCall
 Coon, Edris M. 35 ed.....Emmett
 Coonrod, Melvin Arthur 32 f.....Boise
 Coonrod, Simeon George 35 ee.....Boise
 Coppedge, William Harold 35 jc.....Boise
 Cordon, Ralph Douglas 33 med.....Ashton
 Corless, Donald Edward 32 ag.....Paul
 Cornell, Philip Lester 32 b.....Spokane, Wn.
 Cowgill, Linn Duncan 32 s.....Boise
 Cox, Lewis A. 35 ed.....Craigmont
 Craig, Glenn Elmer 34 ch.....Moscow
 Crandall, John Sheridan 33 min.....Salmon
 Crane, Marjorie Jo-Ann 33 h.....Boise
 Cranston, Donald Jack 35 ee.....Sandpoint
 Craven, Dorothy 32 ed.....Boise
 Craven, Francis John 32 ed.....Rupert
 Craven, Leavitt Homer 33 b.....Twin Falls
 Craven, Robert McCullum 35 jc.....Los Angeles, Cal.
- Crawford, Charles Robert 34 f.....Darlington
 Crawford, Kenneth James 35 f.....Darlington
 Crawford, Walter Alexander 32 ee.....Boise
 Creaser, Helen Dorothy 35 jc.....Roberts
 Cremans, Joseph Kenneth 32 min.....Havre, Mont.
- Crist, Lucille 33 h.....Havre, Mont.
 Crombie, Richard Joseph 33 b.....Spokane, Wn.
 Cross, Charles Crego 32 ce.....Spokane, Wn.
 Cross, Edward George 32 law.....Ritzville, Wn.
 Cross, Evelyn Mae 34 jc.....Gooding
 Croy, Wyman William 33 ed.....Clarkston, Wn.
 Cruikshank, Douglas Barton 33 ee.....Moscow
 Cruikshank, Helen DuBois 33 a.....Moscow
 Cruikshank, Murial Leyrer 33 a.....Moscow
 Cuff, Emma Louise 35 ed.....Spokane, Wn.
 Culp, Perry Scott, Jr. 35 jc.....Moscow
 Cummings, Theresa Hight sp a.....Moscow
- D**
- Dahl, Arthur Ingemor 35 ee.....Coeur d'Alene
 Dahlke, Gustav Albert 35 min.....Chicago, Ill.
 Dahlquist, Lillian Sophie 34 ed.....Coeur d'Alene
- Dailey, Hilda Ida 34 ed.....Palouse, Wn.
 Dalberg, Virgil Romaine 34 jc.....Troy
 Dammarell, Howard Taft 35 g.....Kendrick
 Daniels, Kenneth Miles 33 f.....Moscow
 Daniels, Lorin Bolingbroke 33 b.....Malad
 Daniels, Roderick Wilhelm 35 me.....Worley
 Danielson, Fritz William 33 met.....St. Maries
 Danielson, George Green 35 me.....Cambridge
 Dannug, Regino Jose 33 ce.....Canayan, P.I.
 Darrington, Leslie George 35 ag.....Burley
 Daugherty, John Worth 32 ce.....Reubens
 Davenport, Charles Othel 35 f.....Moscow
 David, William Rufus, Jr. 35 ag.....Lascassas, Tenn.
- Davidson, Arthur Jerome 33 ce.....Moscow
 Davidson, Dorothy June 34 jc.....Stites
 Davidson, John Raymond 33 b.....Emmett
 Davidson, Tillmer Elmorise 33 ed.....Moscow
 Davis, Brennan Briggs 35 f.....Bismark, N.Dak.
- Davis, Charlotte Seton 33 b.....Caldwell
 Davis, Clare Ransom 34 jc.....Moscow
 Davis, David James 34 ed.....Sandpoint
 Davis, Emmert Earl 34 ed.....Buhl
 Davis, Louis Dean 35 jc.....Wallace
 Davis, Milton Austin 34 jc.....Miami, Fla.
 Davis, Oliver Thomas 34 ee.....Barber
 Davis, Ray Lewis 33 ee.....Garland, Utah
 Dawald, Clyde 32 ed.....Onalaska, Wn.
 Day, Alfred Bertram 35 ee.....Idaho City
 Day, Carey Lenard 33 ag.....Eden
 Deal, Wilder Angus 34 jc.....Emmett
 Dean, Charles Edward 34 g.....Fruitland
 DeAtley, Albert Delvin 35 ce.....Lewiston
 Deaton, Albert Byron, Jr. 33 ee Soda Springs
 Decker, Ralf Edward 33 jc.....Post Falls
 deGero, Louella Rosalind 33 a.....Spokane, Wn.
 DeKay, Edwin Roy 32 ag.....Blackfoot
 DeLane, Ralph Edison 35 f.....Wardner
 Dell, Robert Alexander 34 f.....Spirit Lake
 Denney, Gertrude Emily 33 ed.....Cambridge
 Devereaux, Ione Mary 35 jc.....Kingston
 Dewald, Betty Homann 34 jc.....Coeur d'Alene
 Dewey, Dorothy Irene 32 b.....Moscow
 Dewey, Harry Maxwell 33 ch.....Coeur d'Alene
 DeWinter, Gertrude Marguerite 32 ed.....Moscow
- DeWinter, Lillian Eberdene 33 h.....Moscow
 DeWinter, Marie Jane 34 jc.....Moscow
 DeWitt, Myrtle Chrystine 35 jc.....Moscow
 Dick, Elizabeth Taylor 32 ed.....Sandpoint
 Diethelm, Florence Nellie 33 ed.....Moscow
 diMiceli, Leonard 34 law.....Los Angeles, Cal.
 Doak, James DeLoren 33 ed.....Page
 Dobler, Clifford Irvin 35 jc.....Worley
 Dodd, Jack Bruce 32 f.....Spokane, Wn.
 Dolan, Marguerite Elizabeth 34 ed.....Clarks Fork
- Dolan, Paul Gerald 32 a.....Peshtigo, Wis.
 Dolan, William Stanley 32 law.....Moscow
 Donaldson, Jean Roberta 34 jc.....Moscow
 Donaldson, Mae Belle 34 mus.ed.....Spokane, Wn.
- Donovan, John Francis 32 ee.....Hope
 Dorsey, Stanley William 35 ed.....Rosalia, Wn.
 Dotson, Charles Crawford 35 me.....New Plymouth
- Doucette, Charles Rebot 35 ee.....Kellogg
 Douglas, Charles Alexander 33 s.....Stanwood, Wn.
- Dowdy, Francis Thomas 35 jc.....Moscow
 Doyle, Clarence James 32 ed.....Genesee
 Drager, Frederick Eugene 33 ce.....Bellevue
 Dresser, Marion Cross 35 jc.....Spokane, Wn.
 Driggs, Percy Ralph 35 ag.....Shoshone
 Druding, Marjorie 35 ed.....Wallace
 Drury, Miriam L. sp m.....Moscow
 DuBois, Donald Lloyd 33 me.....Moscow
 Duedahl, Norman Wililam 35 jc.....Kellogg
 Duerig, Clarence Wynn 32 ed.....Twin Falls
 Dufty, Horton Arthur 36 jc.....Tingley, Ia.
 Dunkin, John Hugh 35 ee.....Carmen
 Dunkley, Legrand Joseph 35 ag.....Whitney
 Dunkley, Willis Robert 35 ag.....Whitney
 Dunn, Henry 34 ag.....Blackfoot
 Dunn, Jane Elizabeth 34 ed.....Wallace
 Durage, Mary Ellen 35 ed.....Seattle, Wn.
 Durbin, Edna Ladine 32 ed.....Troy
 DuSault, Frances Louise 34 jc.....Moscow
 Durham, Ora Lucille 35 jc.....Gooding
 Duspiva, Victor Glenn 33 ag.....Nampa
 Dwight, Harriette 34 ed.....Filer
 Dyer, Jack Newton 35 jc.....Grangeville
 Dyer, Kenneth Roy 34 jc.....Walla Walla, Wn.

Dyer, Rex Monteith 33 jc.....Grangeville

E

Eastburn, Marian Eleanor 34 ed
Coeur d'Alene
Eaton, Mary Harriet 35 jc.....Emmett
Eaton, Vernon Arthur 32 ce.....Boise
Eddy, Helen Mayneen 32 ed.....Spokane, Wn.
Edelblute, Harvey William 32 ch.....Rathdrum
Edwards, Georgia Alberta 33 ed.....Nampa
Edwards, Harold Oliver 34 f.....Watson, Mont.
Eggers, Earl Dean 34 ed.....Post Falls
Ehlinger, Elaine Anne 35 jc.....Spokane, Wn.
Eichelberger, Dean Austin 34 jc.....Ashton
Eiden, Max Albert 34 jc.....Boise
Eimers, Dorothy Wilson 33 ed.....Moscow
Eimers, June Gareth 36 ed.....Grangeville
Eimers, Paul George 33 law.....Moscow
Eisinger, Elsa Suzanna 33 a.....Moscow
Eldridge, Grace Elizabeth 33 a.....Moscow
Eldridge, Hugh Wallace 35 jc.....Moscow
Ellis, Ralph Edgar 33 ed.....Dayton, Wn.
Ellsworth, Marjorie 34 jc.....Lewisville
Elmer, William Wells, Jr. 33 min
Portland, Ore.
Elmore, Ernest Ferrell 35 jc.....Rupert
Elworthy, John Sherman 35 jc.....Seattle, Wn.
Emahiser, Jack Walter 35 jc.....Lewiston
Emery, Doris Christine 34 ed.....Kendrick
Emigh, George Donald 32 min.....Burley
Emmett, Eloise 34 ed.....Genesee
English, Robert Andrew 35 ee.....Emida
Engstrom, Axel Gunnor 35 jc.....Spokane, Wn.
Ennis, William Gordon 33 law.....Pocatello
Equals, Donald Robert 32 b.....Payette
Erickson, Maurice Edwin 33 s.....Spokane, Wn.
Eshelman, Oakly Nass 35 ee.....Spokane, Wn.
Eskeldson, Ivan Christian 34 ag.....Boise
Estes, Murray 33 law.....Moscow
Evans, Arthur 35 ce.....Trail, B.C., Canada
Evans, Carl Reese 33 ed.....Downey
Evans, David Lloyd 35 jc.....Malad
Evans, David Wesley 35 ce.....Scranton, Pa.
Evans, Eugene Darhl 35 jc.....Malad
Evans, Gertrude Anne 33 a.....Boise
Evans, Myrthus W. 32 ag.....Malad
Evans, Virginia 32 mus.ed.....Pocatello
Evans, Virginia Belle 32 a.....Ogden, Utah
Every, Robert Wilson 35 f.....Yakima, Wn.
Ewasen, Olga 34 jc.....Moscow
Ewing, John Dumas 32 law.....Helena, Mont.
Exum, Glenn 35 mus.ed.....Pocatello

F

Fairweather, Irving McCulloch 34 jc Wallace
Farber, Joseph Wilhelm 35 f.....Moscow
Farley, Wayne Howard 32 a.....Boise
Farquhar, John Thomas 33 jc.....Spokane, Wn.
Farris, James Patrick 33 a.....Wallace
Fattu, John 34 ed.....Kellogg
Featherstone, William Sidney 34 f.....Wallace
Featherstone, Wray Wolcott 34 g.....Wallace
Felt, William Mark 35 jc.....Twin Falls
Felten, William Paul 34 ed.....Moscow
Felton, Robert Theodore 35 jc.....Lewiston
Fenton, Grace Ellen 35 jc.....Boise
Ferebauer, Jack Aloise 33 a.....Idaho Falls
Fick, Jack Howard 34 jc.....Harrison
Fickes, DeLos Everett 36 f.....Boise
Fickes, Earl Maurice 34 f.....Boise
Fifield, Charles Edward 32 f
Lunden, Sask., Canada
Fike, Arthur Ray 32 ed.....Moscow

Fikkan, Philip Clague 34 jc.....Emmett
Filer, Paul Osborne 35 f.....Veradale, Wn.
Filseth, Joseph Albert 32 b.....St. Maries
Finlayson, Vern Arnold 33 ee.....Spokane, Wn.
Fischer, Carl Nicholas 35 jc.....Coeur d'Alene
Fish, Earl Stanley 35 me.....Escondido, Cal.
Fisher, Betty Jean 35 ed.....Coeur d'Alene
Fisher, Fred Augustus 34 f.....Newport, Wn.
Fisher, George Morris 32 f.....Perry, Ia.
Fisher, Robert Alexander 33 ag.....Post Falls
Fisk, Bert 33 ed.....Orofino
Fisk, Carl 33 ed.....Orofino
Fitzpatrick, George Albert 35 ag Idaho Falls
Fleming, Rebecca Jean 35 jc.....Neutral Hills,
Alberta, Canada

Florell, Edna May 33 a.....Moscow
Flynn, Raymond James 33 b.....Burgdorf
Fogle, James Gerald 35 ce.....Moscow
Fontanilla, Angel Eugenio 32 ag.....Laoag, P.I.
Forbis, Vera Ruth 32 a.....Lebanon, Ore.
Ford, Frank Robert 35 jc.....Spokane, Wn.
Ford, Philip 33 min.....Weiser
Foskett, Andrew 35 g.....White Bird
Foster, Russell Kohr 35 jc.....Moscow
Fowles, Nels Arave 35 jc.....Burley
Frale, Lyle Jack 34 mus.ed. Coeur d'Alene
Frandsen, Robert Hewes 35 jc.....Coeur d'Alene
Franklin, Noel Leo 32 ed.....Rupert
Frayer, Hume Collar 33 f.....Buffalo, N.Y.
Frazier, Conrad Orville 34 jc.....Sandpoint
Frazier, Ellen Jeanette 35 ed.....Moscow
Frazier, Genevieve Elizabeth 34 ed.....Moscow
Frederic, Jack Lawrence 33 f.....Coeur d'Alene
Frederickson, Lucile May 32 a.....Lewiston
Freece, Herbert John 35 f.....Yakima, Wn.
Freeman, Clair Dominie 35 jc.....Coeur d'Alene
Freis, John Vincent 33 ag.....Twin Falls
Friberg, Walter Raymond 33 me

Coeur d'Alene
Fridley, Don Emerson sp law.....Albion
Friedman, Beatrice Louise 33 b.....Moscow
Fritchman, Neil 33 ed.....Naches, Wn.
Frost, Elijah Vance 32 b.....Caldwell
Fry, Arthur Esher 35 jc.....Bonners Ferry
Fry, Marion Jean 33 ed.....Bonners Ferry
Frye, Oliver Lee 35 jc.....Emmett
Fulton, Anna Thorne 33 a.....Moscow
Funke, George Joseph 33 ag.....Cottonwood

G

Gabbey, Leila 35 jc.....Boise
Gabby, Elizabeth Eleanor 35 mus.ed.
Moscow
Gaffney, Leonard Gillman 35 jc.....Weippe
Gaffney, William Stowell 33 f.....Weippe
Gage, Glenn Edward 32 ee.....Culdesac
Gail, Harold Telford 35 jc.....Moscow
Gailey, Helen Virginia 35 jc.....Boise
Gale, Fulton Gilberth sp ed.....Moscow
Gale, George Culton 35 jc.....Moscow
Galligan, William Bentley 34 jc.....Caldwell
Galloway, Augustus Flournoy 33 med.....Weiser
Galloway, Mary Maude 33 h.....Weiser
Galloway, William Francis 34 jc.....Boise
Galloway, Winifred 34 jc.....Weiser
Gamble, Martha Elizabeth 32 ed.....Moscow
Garces, Geronimo Gabada 35 ch.....Moscow
Gartner, Charles Henry 33 g

Los Angeles, Cal.
Garton, Audrey Pearl 33 ed.....Palouse, Wn.
Gascoigne, Virginia Elias 33 a Spokane, Wn.
Gathe, Theodore Henry Jr. 32 a.....Pocatello
Gau, Herman Fred 35 jc.....Harvard

- Gelinsky, Charles Cogswell 33 jc
Milwaukie, Ore.
Gentry, Helen Frances 34 jc.....Wallace
Geraghty, Cyril Lawrence 34 jc.....Sandpoint
Gerraghty, William Michael 33 med
Spokane, Wn.
Gershman, William 35 f.....Chicago, Ill.
Gibb, John Mason 35 f.....Long Beach, Cal.
Gibbs, Ethelyn Cornelia 33 h.....Moscow
Gibbs, George Karrol 34 ag.....Grace
Gibbs, Raphael Sanford 34 jc.....Moscow
Giffin, Leverett William 35 me.....Boise
Giffin, William Albert 35 jc.....Boise
Giles, George Leroy 34 me.....Coeur d'Alene
Giles, Joseph Gordon 32 a.....Coeur d'Alene
Gilgan, Joseph James, Jr. 33 ee.....Boise
Gillespie, Richard Conroy 33 med.....Spencer
Gillespie, Walter Edward 33 ce.....Spencer
Gillett, Joseph Andrus 32 ag.....Declo
Gilmore, Elizabeth Florence 32 m.....Moscow
Gilmore, John Dorman 35 f.....Payette
Gilmore, Myrtle Verma 34 ed.....Moscow
Ginder, Marian Isabel 35 jc.....Coeur d'Alene
Ginn, Charlotte Rowena 32 a
Walla Walla, Wn.
Ginn, Howard James 36 jc Walla Walla, Wn.
Gjelde, Clara Elvine 34 ed.....Kootenai
Gladhart, Peter Russell 34 ag.....Payette
Gooding, Mary Janet 32 h.....Weiser
Goodsell, Wylie Daniel 33 ag.....Weston
Goodwin, Kathleen Mary 33 h.....Boise
Goss, Dale Marvin 32 a.....Kellogg
Gralow, Bruce Barr 35 ee.....Boise
Grant, Chester Orville 35 jc.....Wardner
Grant, Robert Willis 32 b.....Spokane, Wn.
Gray, Jack Burton 35 jc.....Twin Falls
Graybill, Charles Lillard 32 b.....Nampa
Graybill, Kathryn May 34 jc.....Nampa
Grayot, Don Carlos 34 ed.....Buhl
Greathouse, Cecil Roscoe 35 jc.....Boise
Greco, Verneldo A. 35 f.....Burley
Green, Dorothy Naomi 34 jc.....Troy
Green, Grace Muriel 33 ed.....Troy
Green, Merrill 35 jc.....Moscow
Green, Neva Cecelia 33 b.....Moscow
Greene, Mary Louise 34 jc.....Eagle
Greene, Robert Fulton 32 ed.....Culdesac
Greenway, John Owen, Jr. 34 jc.....Boise
Greer, Morris Cameron 34 jc.....Potlatch
Greggerson, Virgil Kenneth 33 b
Bonners Ferry
Greisser, John Robert 34 ee.....Spokane, Wn.
Grenier, Gilbert Emil 35 jc.....Hammett
Grenier, Howard Joseph 34 ed.....Hammett
Grieser, Edward William 35 f.....Moscow
Grieser, Emeline Rose 35 ed.....Moscow
Griffith, Donald Thomas 34 jc.....Burley
Griffith, Marjorie 32 h.....Burley
Grohosky, Margaret Elizabeth 32 ed.Burley
Grover, Milton Call 33 ag.....Idaho Falls
Groves, Bruce Vernon 35 jc.....Moscow
Groves, Ivy Beth 35 jc.....Moscow
Groves, Richard Eighme 33 med.....Boise
Gudmundsen, Taylor Ivel 35 jc.....Burley
Guello, Samuel James 33 ed.Hibbing, Minn.
Guernsey, Aleck Wilson sp jc.....Moscow
Gustafson, Evon Herbert 32 ed.....Kellogg
Guyot, Fred Marvin 32 ag.....Syracuse, N.Y.
- H**
Hadley, Pearl Snyder 32 h.....Moscow
Hafterson, Harold Donald 35 ce.....Lane
Hahn, John Emil 35 jc.....Twin Falls
Hale, Eileen Wilma 33 a.....McCammon
Hale, Stanton Gudman 32 b.....Boise
Hall, Arthur James 35 ed.....Winchester
Hall, Josie Edith 35 ed.....Moscow
Hall, Russell Charles 34 ag.....Filer
Hall, Stanley Rowland 34 me.....Winchester
Hall, William Jarvis 32 med.....Ontario, Ore.
Hallvik, Carl Clifford 32 ce.....Coeur d'Alene
Hamilton, Hester 32 a.....Filer
Hamlett, Leota Victoria 34 jc.....Moscow
Hammerand, Veral Franklin 34 g.....Harlan
Hammond, Robert Beardsley 34 ed.....Challis
Hampton, Elvon Wallace 32 ag.....Genesee
Hampton, Wayne Wendell 35 jc.....Genesee
Hand, Helen Gwendylon 33 ed.....Nampa
Hanford, Marius Parmelee 33 ed Idaho Falls
Hankins, Lawrence Donald 32 ce
Coeur d'Alene
Hanley, Frances Catherine 34 jc.....Wallace
Hannum, James Gordon 32 ee.....Boise
Hansen, Bernadine 34 jc.....Boise
Hansen, Hallie Maxine 35 ed.....Boise
Hansen, Valarae Maryanne 34 jc
Beaumont, Cal.
Hanson, Burton Morgan 34 ee.....Malad
Hanson, Helen Ethel 32 a.....Boise
Harker, Lawrence Ray 32 ed.....Shelley
Harlan, George 34 f.....Orofino
Harmon, Byron Paul 35 jc Grants Pass, Ore.
Harper, James Arthur 35 jc.....Othello, Wn.
Harper, Wayne Frederick 35 ag.....Emmett
Harris, Camille Angell 32 a.....Sumpter, Ore.
Harris, Don Corwin 33 b.....St. Anthony
Harris, Edward Franklin 33 b.....Moscow
Harris, Emma B. Sands 35 ed.....Plummer
Harris, Joan Marion 32 mus.ed.....Payette
Harris, Raymond Kenoyer 32 ed.....Potlatch
Harris, Robert Howard 33 ch.....Sandpoint
Harris, Robert Winston 35 ed.....Plummer
Harris, Sydney 33 ce.....Payette
Harris, Virginia Graham 35 jc.St. Anthony
Hart, Cecil Elmo 32 b.....Rigby
Hart, Kathryn Ivy 32 a.....Rigby
Hartle, John Franklin 35 ag.....Hayden Lake
Hartley, Margaret Nathalie 35 jc.....Nampa
Hartley, Mary Edna 35 jc.....Payette
Hartman, Herbert Harold 34 jc.....Challis
Harvey, Aretha Lillian 34 ed.....Kamiah
Harvey, Donald Gordon 35 jc.Spokane, Wn.
Harvey, George Orestus 34 ed.....Kamiah
Hasfurther, Wilfrid Martin 33 ag.....Moscow
Hatfield, Henry Victor 35 ag.....Buhl
Hauck, Gordon Walter 32 me.....Moscow
Haugse, Virgil Samuel 34 me.....Boise
Hawe, Floyd Francis 34 a.....Boise
Hawk, William 35 ce.....Spokane, Wn.
Hawkins, Henrietta Jane 33 ed.....Lewiston
Hawkins, William Stark 32 law
Coeur d'Alene
Hayden, John Francis 33 b.....Genesee
Hayes, Earl Thomas 34 met.....Gem
Hayes, George Lloyd 34 f.....Rigby
Hayner, Hazel Florence 34 jc.....Idaho Falls
Haynes, Lester Pemberton 34 b.....Lewiston
Haynes, Milton Freeman 35 jc.....Lewiston
Hays, Glen LaValley 32 med.....Weiser
Heap, Jennie Isabel 36 ed.....Jerome
Hearne, Walter Richard 34 jc.....Boise
Heath, Charles Worth 32 ag.....Rigby
Heath, Flora Effie 35 ed.....Julietta
Heckathorn, Mary Ellen 32 h.....Moscow
Heckert, Elwin Byron 34 ee.....Bellevue
Heger, John W. Herbert 35 f.....Bernard, Ohio
Heinzerling, Jack Milton 35 ag.....Culdesac
Heitman, Herrick Smith 35 ag.....Sandpoint

- Heitmeyer, Elza Alvin 34 law Portland, Ore.
 Heitmanek, Lillian Bessie 32 a.....Buhl
 Helm, Charles Jack Milton 35 ch Twin Falls
 Helmer, Ted Vincent 33 b.....Bonners Ferry
 Henderson, Wanda 33 ed.....Bliss
 Hennen, Waldo Gerhart 32 b.....Moscow
 Hennings, Carl Oscar 33 ag
 La Moure, N.Dak.
 Hensley, Clyde Rolland 35 jc.....Orofino
 Hensley, Helen Virginia 35 ed.....Moscow
 Hensley, Kenneth Robert 32 ed.....Moscow
 Hepworth, Mary Louise 34 jc
 Kansas City, Mo.
 Herbig, Clifford Orville 35 jc.Arcadia, Cal.
 Hereth, Walter Frank 33 ae.....Emmett
 Herman, Edwin Horton 34 jc.Spokane, Wn.
 Herman, Robert Alexander 36 t
 Spokane, Wn.
 Herrick, Mary Isabel 35 jc.....Wallace
 Herrick, Robert Condit 35 jc.....Wallace
 Hersey, Elaine Constance 35 ed.....Lenore
 Heshmati, Ali Guli 35 ag.....Tabriz, Persia
 Heston, Glen Edwin 35 jc.....Nezperce
 Heward, Joseph William 32 ag.....Grace
 Hilding, Raymond Lorimer 35 f.....Asotin
 Hill, Charles Ernest 34 jc.....Spokane, Wn.
 Hill, Frank Richard 35 f.....Seaford, Del.
 Hill, Hugh Wimmer 35 ae.....St. Anthony
 Hill, Joseph Edward 35 ag.....Moscow
 Hill, Margaret Lucile 33 h.....Moscow
 Hill, Roland Obed 33 b.....Moscow
 Hillier, Virginia Gayle 35 ed.....Nampa
 Himes, Ruby Winifred 32 a.....Post Falls
 Hints, Lois Fanny 33 m.....Trinidad, Colo.
 Hints, William Floyd 35 ed.....Trinidad, Colo.
 Hixon, Vernon Harvey 35 jc.....Weiser
 Hjort, Franklin Andrew 35 me.....Kooskia
 Hoback, William Gail 34 jc.....Moscow
 Hobbs, Morgan Forbes 35 f.....Millwood, Wn.
 Hobson, Karl Victor 34 ag.....Sedan, Kans.
 Hodgson, Charles Worth 34 ag.....Cottonwood
 Hodson, Ila Bell 35 jc.....Moscow
 Hoffman, Aldon Melroy 33 a.....Barber
 Hoffman, Maurice Rodric 35 ee.....Greencreek
 Hofmann, Maxine Myra 35 jc.....Moscow
 Hofmann, Velma Marie 34 jc.....Moscow
 Hogaboam, Gilbert Porter 35 ag.....Culdesac
 Hogg, Bess Louise 32 ed.....Payette
 Hoggan, George Call 33 ag.....Lorenzo
 Hogge, Elden Eddington 36 ag.....Rexburg
 Hogue, Carl Lambert 35 min.....Burley
 Hogue, Jack Carlton 34 jc.....Payette
 Hogue, Wilbur Owings 35 ce.....Burley
 Hohnhorst, Henry Charles 32 me.....Hazelton
 Hohnhorst, John Jefferson 32 ag.....Hazelton
 Hoidal, Clarence Raymond 34 ce.....Troy
 Holbrook, Albert Eugene 34 ag.....Ola
 Holland, James Thomas 35 ce.Anaheim, Cal.
 Hollingshead, Lawrence Leonard 32 s.Boise
 Hollingsworth, Max H. 34 jc.....Lewiston
 Holm, Glenn Carlos 32 ag.....Shelley
 Holmes, Donald Clifford 35 ed.....Peck
 Hoover, Harold Franklin 34 jc.....Twin Falls
 Hoover, Julia Elizabeth 34 h.....Blackfoot
 Hopkins, Jesse Kysor 33 f.....Rochester, N.Y.
 Horswill, Harry Lee 32 med.....Spokane, Wn.
 Horton, Agnes Mable 33 ed.....Spokane, Wn.
 Houtchens, Harold Max 33 ed.....Moscow
 Hove, Kermit 35 jc.....Genesee
 Howard, Ward Conrad 34 jc.....Kellogg
 Howells, William Dean 33 b.....Pocatello
 Hudelson, Eunice Marie 33 h.....Cambridge
 Hudson, Wilma Elizabeth 34 jc
 Coeur d'Alene
 Huffman, Avera Constance 35 jc.....Stites
 Hughes, Grace Anne Lee 35 jc.....Donnelly
 Hughes, LeRoy Jesse 33 ed.....Bellevue
 Hulser, Margaret Elizabeth 34 jc.....Boise
 Hultberg, Paul Edward 35 f
 Jamestown, N.Y.
 Hultman, Anders Benjamin 35 f
 Veradale, Wn.
 Humphrey, Elmer Newton 33 ag.....Moscow
 Humphreys, Robert Maxwell 35 min.Moscow
 Humphreys, Ruth Wilson 34 jc.....Moscow
 Hunt, Donnell Hodge 32 s.....Moscow
 Hunt, Esther Edsall 35 jc.....Twin Falls
 Hunt, Georgia Mae 35 jc.....Kingston
 Hunt, William Boland 35 jc.....Ashton
 Hunter, Rollin Wheeler 34 jc.....Boise
 Hurley, Edward Emmett 33 ed.....Montpelier
 Hurst, Howard Allen 35 jc.....Spokane, Wn.
 Hutchinson, Jessie Edith 33 a.....Moscow
 Hutteball, Eugene Eiler 33 ee.....Boise
- I**
- Ingebretsen, Paul Edward 35 f.....Weiser
 Ingebretsen, Shirley Buhl 35 jc.....Weiser
 Ingebretsen, Milford Stephen 34 jc.....Moscow
 Ingle, Gerald Adams 33 b.....Kendrick
 Ingle, William Walter 33 ag.....Kendrick
 Irwin, Nellie Alene 35 jc.....New Meadows
 Isenberg, Edward Hoyt 32 ed.....Troy
 Izatt, John O. 32 ce.....Grace
- J**
- Jack, Ellen Mae 34 b.....Boise
 Jackson, Gladys Pitt 34 jc.....Moscow
 Jacobs, Elinor 33 ed.....Lewiston
 Jacobs, Harold John 32 ed.....Moscow
 Jacobsen, Alvin John 33 ee.....Emmett
 Jacobus, Earle Lyle 35 ed.....Moscow
 Jacoby, Harry Joseph 34 ed.....Bonners Ferry
 Jaggard, Rector Hesse 35 jc.....Wallace
 James, Corland Lehman 33 f.....Spokane, Wn.
 Janssen, Allen Sheeley 32 ce.....Boise
 Janssen, Dorothy May 32 h.....Huston
 Janssen, Mildred Louise 35 jc.....Huston
 Janssen, Winfred Stewart 33 b.....Boise
 Jarboe, Edward William 32 b.....Pocatello
 Jarlett, Oscar Joseph, Jr. 35 f
 Watertown, Conn.
 Jarvis, Francis William 33 law.....McCall
 Jay, Jimmie Wilbur 34 f.....Maryville, Mo.
 Jenny, John Alois 32 b.....Cottonwood
 Jensen, Herman Andrew 32 b.....Orofino
 Jeppesen, Vernon Kermit 33 law.Darlington
 Jepsen, Stanley Marius 35 f.Columbus, Ohio
 Jessup, Clifford Arthur 35 ee.....Moscow
 Jockheck, Carl Frederick 32 b.....Elk River
 Johnson, Alton LaRue 35 jc.....Spirit Lake
 Johnson, Clive Roland 33 med.....Marysville
 Johnson, Constance Alvilda 36 jc
 Spokane, Wn.
 Johnson, Donald Gust 35 f Jamestown, N.Y.
 Johnson, Edward Hale 34 me.Laramie, Wyo.
 Johnson, Evelyn Almeda 33 ed.....Orofino
 Johnson, George R. 32 ee.....Pocatello
 Johnson, Hugo Alfred 32 ee.....Rupert
 Johnson, Jacqueline Rose 33 b.Spokane, Wn.
 Johnson, John Oliver 32 b.....Coeur d'Alene
 Johnson, Jolene 32 ed.....Coeur d'Alene
 Johnson, Mattie LaVerne 33 ed.....Lewiston
 Johnson, Norman Lee 35 ed.....Moscow
 Johnson, Robert Bailey 32 f.....Moscow
 Johnson, Robert Evald 33 b.Anaconda, Mont.
 Johnson, Roy Albert 32 min.....Ritzville, Wn.
 Johnson, Russell Ray 35 ee.....Moscow

Johnson, Ruth Constance Susanna 33 ed
Coeur d'Alene
Johnson, Ruth Hildreth 35 jc.....Moscow
Johnson, S. Lee sp law.....Hagerman
Johnson, Walter Hamilton 35 jc.....Boise
Johnson, William John 35 ee.....Spokane, Wn.
Johnston, Murray John 35 met
Anaconda, Mont.
Johnston, Ray Malcolm 35 me.....Moscow
Johnston, Rodney Porter 35 ee.....Payette
Jones, Claudia Elizabeth 34 jc.....Sandpoint
Jones, Jedd Glenn 34 jc.....Malad
Jones, Edward Morris 35 jc.....Coeur d'Alene
Jones, Margaret Louise 35 jc.....Moscow
Jones, Paul Edward 33 a.....Tigard, Ore.
Jones, Paul Everett 34 a.....Twin Falls
Jones, Phyl 35 jc.....Wallace
Jones, Winston Irving 34 jc.....Twin Falls
Joslyn, Alvin Wilfred 35 jc.....Glenns Ferry
Jossis, Sigfrid Axel 33 b.....Meridian
Jullion, George Paul 32 b.....Boise
Jump, Roy William 35 ee.....Winchester
Justus, Charles Henry 35 min.....Harrison
Justus, Ellen Viola 34 ed.....Harrison

K

Kail, Kenneth Edwin 32 b.....Twin Falls
Kalbus, James Williard 34 jc.....Eagle
Kearns, Helen Elizabeth 33 ed Spokane, Wn.
Kearns, Katherine Mary 32 ed Spokane, Wn.
Keating, Charles Arthur 34 jc.....Wallace
Keating, Mary Elizabeth 35 jc.....Wallace
Keef, Dennis William 33 me.....New Plymouth
Keener, Kathleen Adella 33 a.....Pocatello
Keeney, Jessie Lenore 36 ed.....Moscow
Kehrer, Ruth Eileen 34 jc.....Boise
Keilbach, Helen Marie 34 ed.....Hayden Lake
Keller, William Cleary 35 ag.....Culdesac
Kelley, Ray Hansen 32 med.....Rexburg
Kellogg, Margaret 34 jc.....Payette
Kellogg, Robert Lewis 34 f.....Naches, Wn.
Kelly, Hal Joseph 33 min.....Kalispell, Mont.
Kelly, James Riley 34 jc.....Boise
Kelly, Richard Lewis 35 ag.....Troy
Kendrick, Jay Emerson 32 b.....LaGrande, Ore.
Kennard, Kathryn Isabel 35 jc.....Moscow
Kennard, Patricia Ann 34 jc.....Moscow
Kenworthy, Kenneth Paul 33 ee.....Hansen
Kenworthy, Wayne Arthur 35 jc.....Hansen
Kercheval, Robert Michael 35 jc.....Boise
Kerr, Mary Lucille 32 a.....Farmington, Mo.
Kersey, Mary Martha 33 b.....St. Maries
Kershnik, Frances Christine 33 s.....Burley
Keyser, Louis Schroer 33 s.....Spokane, Wn.
Khalapur, Assad Mohammed 36 ag
Tabriz, Persia
Kildea, York Alphonsus 32 a.....Coeur d'Alene
Kimberling, Margaret Alice 35 jc.....Moscow
King, Lee Kipling 35 f.....Moscow
King, Margaret Alice Rene 35 jc
Malta, Mont.
King, Mildred Grace 32 ed.....Moscow
King, Myna Maxine 35 jc.....Moscow
Kingsbury, Jean Elizabeth 34 jc.....Wallace
Kinney, Fred Walter 35 jc.....Cambridge
Kinney, Janet Rankin 35 jc.....Headquarters
Kinnison, Carl Edward 35 ce Pasadena, Cal.
Kirkpatrick, Allan Elwyn 33 ee.....Moscow
Kirkpatrick, Kenneth Kenwood 35 ch
Moscow
Kjosness, Margrethe Nikoline 35 jc
Spokane, Wn.
Kjosness, Mary Ellen 33 s.....Spokane, Wn.
Klahr, Pearl Vesta 34 ed.....Parma

Kleihaur, Robert Scott 35 ed.....Chicago, Ill.
Klein, George Matthew 35 f.....Oakland, Cal.
Kleiner, William Carl, Jr. 34 min
Des Plaines, Ill.
Klingler, Marion Vorpe 35 jc.....Hailey
Knox, Marvin Seldon 35 jc.....Boise
Koch, Henry Ferd 34 ee.....Hammett
Koontz, Francis Royce 35 jc Fullerton, Cal.
Kosena, Albert Edward 35 met
Anaconda, Mont.
Kraemer, John Hugo 35 f.....Albany, N.Y.
Kraemer, Leo Glenville 35 jc.....Plummer
Krantz, Azalia Gladys 33 jc.....Blackfoot
Krave, Henry Gustav K. 33 s.....Nampa
Kroll, Egon Herbert 35 met.....Coeur d'Alene
Kuckku, Morris Edward 32 med.....Emmett
Kuhn, Merton Dale 33 f.....Union, Ore.
Kunkel, Eugene Lowry 32 b Anaconda, Mont.
Kurdy, Helen Margarie 32 ed.....Winona
Kurdy, John Ronald 35 ed.....Winona
Kurdy, Thomas Jonathan 32 b.....Winona

L

Lacy, Dan Edgar 33 ed.....Buhl
Lacy, Henry Ambrose 32 me.....Buhl
Ladd, Arthur Folk 34 ed.....Cataldo
Lafferty, Elsie Wilma 34 jc.....Kellogg
Lafferty, Robert Jefferson, Jr. 35 jc
Spokane, Wn.
Laidlaw, Sandy 34 jc.....Boise
Laird, Virginia Kathryn 35 ed.....Craigmont
Lambert, Robert Edward 35 me.....Leadore
Lamuth, Joseph Mathew 35 jc.....Kellogg
Lancaster, William Truscott 32 me
Spokane, Wn.
Laney, Francis Towner 35 jc.....Moscow
Lang, Jonathan 35 jc.....Moscow
Lang, Robert Scott 34 min.....Coeur d'Alene
Langbehn, Nicholas Frederic 35 ee
Headquarters
Langford, Bennett Gordon 35 ch
Coeur d'Alene
Langley, Howard Dunham 34 ce.....Boise
Larsen, Loyd Edwin 34 ee.....Portland
Larson, Carl Olaf 32 ce.....Spokane, Wn.
Larson, Frances Detlor 33 a.....Weiser
Larson, Harold Lundgren 32 s.....Blackfoot
Larson, Wallace Olaf 35 ag.....Twin Falls
Larsson, Paul Reynold 33 f.....Sac City, Ia.
LaRue, Ethel King 34 ed.....Moscow
LaRue, Jane 34 jc.....Rupert
Lash, Robert Louis 35 f.....Los Angeles, Cal.
Laskey, Irving Henry 34 min.....Kellogg
Latimore, Helen Dorothea 35 jc
Mountain Home
Latta, Lloyd Maurice 35 min.....Lakeview
Layne, Claude Morgan 32 b.....Buhl
Layne, Clarence Nathaniel 32 b.....Buhl
Ledford, Bryce 34 f.....Manchester, Tenn.
Lee, Charles Albert 33 g.....Lindsay, Cal.
Lee, Eldred 35 ag.....Rigby
Lee, Jack Charles 33 a.....Lewiston
Lee, Kermit Pierce 34 jc.....Clarks Fork
Lees, John Robert 35 f.....Sioux City, Ia.
LeGore, Mary Laone 35 ed.....Coeur d'Alene
Leighton, Jewell Claudia 33 ed.....Boise
Leitch, Mable Margaret 32 h.....Lewiston
Leithe, Carl Clemans 34 b.....Coeur d'Alene
LeMoyné, Charles, Jr. 33 ce.....Boise
Lemp, Bernard Louis, Jr. 32 b.....Boise
Lew, Marie Lee 33 h.....Moscow
Lewis, Edith 35 ed.....Oakley
Lewis, Ellen Elizabeth 35 ed.....Oakley
Lewis, Reed Hunter 32 ag.....Oakley

Lewis, William David 34 jc
San Francisco, Cal.
Lindberg, Fred Alex 32 ee.....Post Falls
Lindroos, Emert William 33 min.....Wallace
Lindsey, Dorothy Margaret 33 ed.....Nampa
Linton, Thomas Byron 35 me.....Priest River
Little, Margaret Janet 35 jc.....Idaho Falls
Livingston, Carroll Clermont 34 min Moscow
L'Herisson, Valetta Agnes 32 h.....Jerome
Locke, Melvin Wallace 35 jc.....Idaho Falls
Lockett, Annette Jane 33 s.....Boise
Long, Elbert Monroe 33 s.....Kendrick
Longteig, Norma 33 a.....Craigmont
Loomis, Elizabeth Eleanora 35 ed.....Orofino
Lopez, Daniel J. 32 b.....Meridian
Lord, Philip Burt 33 f.....Pasadena, Cal.
Loudermilk, Reta 32 ed.....Hermiston, Ore.
Louis, Lilly Evelyn 33 ed.....Coeur d'Alene
Lovette, Adrienne Teyonne 35 ed.....Mullan
Low, Bonita Ruth 33 ed.....Ashton
Lucas, Edward Aquila 35 jc.....Wallace
Lucas, Harriet Elizabeth 35 jc.....Nampa
Lucas, Mary Elinor 35 jc.....Nampa
Luce, Bender Albert 35 ed.....Moscow
Luke, Irene 32 h.....Moscow
Lumpkin, Charles Joseph 35 jc.....Coviche, Wn.
Lund, Edwin Herman 35 jc.....Sandpoint
Lundin, Willard Merrill 32 ed.....Twin Falls
Lundquist, Elmer Clinton 35 me.....Moscow
Lundquist, Mildred Elsie 35 jc.....Moscow
Lundstrum, William Grannis 35 ee.....Lewiston
Lunstrum, Carl Kenneth 33 ag.....Boise
Luttrupp, Edwin Henry 34 ag.....Orofino
Lutz, Benjamin Frank 35 jc.....Kellogg
Lynch, Marie Augusta 35 ed.....Orofino
Lyon, Caumo Walker sp law.....Idaho Falls
Lyons, Daniel Milton 35 jc.....Souhtwick
Lyons, Raymond Donald 35 f.....Southwick
Lyons, Reginald Charles 35 jc.....Kellogg
Lystila, Florence 33 ed.....Clarkston, Wn.

Mc

McBirney, Harold Raymond 33 ee.....Boise
McBirney, Herman Clyde 35 me.....Boise
McBride, John Rogers 35 jc.....Kellogg
McBride, Robertson Lee 32 med.....Kellogg
McBride, Thomas Andrew 35 jc.....Kellogg
McCabe, Josephine June 35 ed.....Chatcolet
McCain, Lorna Doone 34 ed.....Kellogg
McCallum, Herbert Lithgon 35 g
Trail, B.C., Canada
McCarty, Geraldine 34 jc.....Boise
McCarty, Leonard Clinton 35 jc.....Boise
McClain, Donald Elwood 33 ee.....Twin Falls
McClusky, Robert Earl 32 med.....Buhl
McComb, Ruth Margaret 35 jc.....Troy
McConnel, Roger Harmon 32 s.....Caldwell
McConnell, Charles 32 a.....Moscow
McConnell, Frances Elizabeth 34 jc Moscow
McConnell, Wilbur William 34 f.....Tuttle
McCormick, Henry Frances 34 f
Fort Myer, Va.
McCoy, Elvis Wilson 32 ag.....Moscow
McCoy, William Aaron 34 jc.....Rupert
McCrea, Ina Mae 32 ed.....Moscow
McDaniel, Warren Benton 32 ar
Spokane, Wn.
McDonald, George 33 law.....Moscow
McDowell, Jay Carl 35 jc.....Rockford, Wn.
McElroy, Marie Ann 35 jc.....Vale, Ore.
McFadden, Isabella Maria 33 ed.....Hailey
McFarland, Dorothy Eva 33 h.....Spokane, Wn.
McGrath, Lodia Manie 35 jc.....Lapwai

McInerney, Howard Oswald 35 ed
Spokane, Wn.
McIntee, Darell Maurice 35 jc.....Avery
McKay, Hugh Shepard Cameron 35 ag
Aberdeen
McKeirnan, Agnes Cletus 32 a Pomeroy, Wn.
McKeirnan, Irene Vivian 34 ed
Pomeroy, Wn.
McKenna, Martin James 35 jc.....Spokane, Wn.
McKinley, Frank Marvin 34 met.....Wallace
McKinney, Geneal Sweet 35 jc.....Lewiston
McLaughlin, James Daniel 32 ee
Mountain Home
McLean, Wilbert Ray 33 ag.....Muscantine, Ia.
McManamin, John Francis 35 jc
Coeur d'Alene
McManamin, Mary Joan 34 ed
Coeur d'Alene
McMillan, Evelyn Louise 33 a.....Sandpoint
McMonigle, Frances Catherine 33 ed.....Boise
McNaughton, Frances Jean 35 jc
Coeur d'Alene
McNealy, Clarence Tillis 35 ed.....Buhl
McPherson, Ivy Mildred 34 jc.....Boise
McPhillamey, Dorothy Evelyn 34 ed
Sheridan, Wyo.
McPhillamey, Wallace Frederick 32 ee
Sheridan, Wyo.
McQuade, Jack Francis 34 law.....Pocatello
McProud, Gene Elbert 32 ag.....Lewiston
McRae, Robert James 33 min.....McCall
McRoberts, Ruth Eleanor 34 jc.....Twin Falls
McWilliams, Walter Charles 34 jc.....Moscow

M

MacDonald, Donald Joseph 35 jc
Coeur d'Alene
Macdonald, Jessie Edith 33 b.....Pocatello
MacVean, Marjory Elizabeth 35 ed.....Moscow
Mackey, Donald 35 ch.....Wallace
Macy, J. Aldus 35 ag.....Caldwell
Madarang, Servando Abad 34 ag
Rosario, P.I.
Maede, Albert Lain 34 me.....Moscow
Magana, Fidel Torres 34 jc.....S. Juan, P.I.
Magee, Elsie Margaret 35 ed.....Boise
Magnuson, Ralph Lauren 32 ag.....Worley
Maguire, Virginia Lee 33 a.....Spokane, Wn.
Maher, Mary Marguerite 35 jc.....Boise
Mahn, Karam Singh 33 ag.....Udhowal
Punjab, India
Mahngar, Bachittor Singh 32 ag Chamkaur,
Punjab, India
Mains, Keenan Bushnell 34 jc.....Boise
Maki, Kalervo Nestor 35 f.....Gardner, Mass.
Malcolm, Susan Sidona 33 a.....Spokane, Wn.
Malmoe, Marion Andrew 35 jc Spokane, Wn.
Mann, Curtis Whaley 35 jc.....Spokane, Wn.
Manning, Hamor Reynolds 34 law.....Ashton
Manning, Robert Walter 32 b.....Pocatello
March, Clement Clair, 35 g.....Lowman
March, Maurice Winferd 34 ed.....Lowman
Marcus, Claude Virgil 34 law.....St. John, Wn.
Marcus, Vincent Charles 35 ee.....Kellogg
Mark, Frederick Albert 32 ag.....Blackfoot
Marsh, Victoria Louise 35 jc.....Kooskia
Marshall, Jack Alfred 35 jc.....Payette
Marshall, James Norbert 33 ag.....Idaho Falls
Martin, Elenora Margaret 35 jc.....Boise
Martin, Elmer Henry 34 ed.....Moscow
Martin, Paul Henry 32 f.....Mentor, Ohio
Martin, Paris Townsend 32 a.....Boise
Martinez, James Paul 34 s.....Taos, N. Mex.
Martinson, Vernon Eugene 35 me St. Maries

- Massier, John 33 ch.....Pocatello
Matson, George Albert 34 ch.....Coeur d'Alene
Matthaeus, Alfred Henry 33 me.....Boise
Matthews, Margaret Maude 35 ed.....Boise
Matthews, Mildred Gladys 35 jc.....Kellogg
Maurer, Fred D. 33 b.....Moscow
Maus, Fred Paul 33 ed.....Boise
Maxfield, Ray Austin 33 g.....Pasco, Wn.
Maxwell, Jane 32 a.....Twin Falls
Maynard, Earl Myron 33 ag.....Lapwai
Mays, Carl Floyd 33 ag.....Howe
Meeks, Helen Adelia 35 jc.....Potlatch
Mellinger, Ardith Reed 32 h.....Moscow
Mellinger, John Forrest 33 jc.....Moscow
Melzian, Harriet Roberts 34 jc.....Moscow
Membrane, Felipe Nebres 35 ag.....Bacnatan, P.I.
Meneely, Erle Newton 35 me.....Moscow
Menzies, Dorothy Elizabeth 34 a.....Nampa
Merchant, Wilbur Whittaker 35 f.....New Brunswick, N.J.
Mercer, Elwyn Jarvis 35 me.....Moscow
Meredith, Mildred 34 ed.....Ashton
Merriam, Betty 33 b.....Wallace
Merriam, Eleanor 34 jc.....Wallace
Merrick, Charles William 35 jc.....Buhl
Merrick, Jane Rachel 35 jc.....Buhl
Merrick, Virginia May 35 jc.....Buhl
Metzgar, Bud Hawthorne 34 ed.....Kellogg
Metzgar, Edward Harry 35 ed.....Kellogg
Middleton, Arthur Wesley 32 ag.....Weiser
Middleton, Myrtha Rena Homes 33 b.....Boise
Mihelich, Lewis 33 med.....Mullan
Mikkelson, Katherine Caroline 32 b.....Lewiston
Miles, Basil Burns 33 ar.....Coeur d'Alene
Miles, Lewis Clarence 33 ed.....Lewiston
Miller, Celeste Eleanor 35 jc.....Lewiston
Miller, Clyde John 35 ed.....Plummer
Miller, Edna Hedlund 32 ed.....Moscow
Miller, Fred Lewis 34 me.....Moscow
Miller, George Morey, II 34 a.....Moscow
Miller, Heloise Susan 33 a.....Twin Falls
Miller, Kathleen 34 jc.....Sunnyside, Wn.
Miller, Norman Rhodes 35 f.....New York, N.Y.
Miller, Paul Theodore 33 jc.....Oklahoma City, Okla.
Miller, Vaye Grace Hart 35 ed.....Potlatch
Millick, Margaret 35 jc.....Blackfoot
Milner, James Andrew 34 f.....Idaho Falls
Milner, John Gillette 34 jc.....Twin Falls
Minkler, John Douglas 35 ed.....Craigmont
Mitchell, Jack Edwin 33 ed.....Moscow
Mitchell, Ruth Adelaide 32 b.....Boise
Mix, Gainford William 33 ag.....Moscow
Mix, Leslie Boyce 32 ag.....Moscow
Mix, Mary Lucile 33 a.....Moscow
Modie, Donald Leander 34 a.....Colfax, Wn.
Moen, Arnold Johan 34 ee.....Careywood
Moerder, James Gifford 35 ee.....Moscow
Moffatt, Thomas Spencer, Jr. 34 ch.....Boise
Molander, Everett Nelson 34 ch.....Buhl
Molloy, Joseph Mitchell 35 min.....Orofino
Monnett, Wallace Patchin 33 b.....Moscow
Monroe, Harry Carson 35 jc.....Culdesac
Moore, Ardath Carol 32 a.....Ashton
Moore, Bertha Free 32 ed.....Marysville, Mont.
Moore, Dorsey Charles 35 e.....Boise
Moore, George Kenneth 35 jc.....Kellogg
Moore, Helen Elizabeth 33 ed.....Moscow
Moore, Lorna Kerr 33 n.....Marysville, Mont.
Moore, Lucile Blanche 33 a.....Pocatello
Moore, Ralphine Ronald 34 jc.....Moscow
Moore, Robert W. 34 me.....Cascade
Morfitt, Carl Clifford 35 jc.....Twin Falls
Morgan, Daniel, Jr. 35 jc.....Spokane, Wn.
Morgan, Gilbert Edwin 35 ed.....Moscow
Morgan, Jack Ingram 34 ee.....Cabarton
Morgan, Janet Elizabeth 33 b.....Kellogg
Morgan, Lewis Drexel 33 ag.....Pickering, Mo.
Morgan, Ralph Alexander 35 jc.....Kellogg
Morganroth, Earl Simon 32 f.....Moscow
Morley, Louise Astrid 33 ed.....Idaho Falls
Morris, Ruth Mellinger 34 a.....Moscow
Morrow, Marguerite Miriam 34 jc.....Anaconda, Mont.
Moser, Alphonse Stephen 32 ed.....Moscow
Moser, Charles Edwin 33 ch.....Post Falls
Moser, Robert Delmore 35 me.....Rupert
Moss, Virgil Daniel 32 f.....Fairfield, Wn.
Mossman, Lucile 33 ed.....Nampa
Mott, Lucile Zilpha 35 ed.....Boise
Moulton, Margaret Ruth 34 jc.....Kennewick, Wn.
Mulcahy, Flora Estelle 35 ed.....Sandpoint
Mulkey, Marian Frances 34 ed St. John, Wn.
Mullikin, Clifford James 32 mus.ed.....Troy
Mullikin, Mabel Rue 35 jc.....Troy
Mulliner, Louise Clarice 33 ed.....Idaho Falls
Murphy, Donald Merle 35 ag.....Twin Falls
Murphy, Leslie Carlton 34 jc.....Twin Falls
Murphy, Nell Louise 34 jc.....Wallace
Murdock, Brigham Dallas 33 ag.....Ashton
N
Nacke, Cecelia Rose 32 ed.....Cottonwood
Nail, Kenneth Monroe 35 jc.....Spokane, Wn.
Neal, Louise Hallie 34 jc.....Meridian
Neeley, Charles Cormash 35 jc.....Weiser
Neeley, Clark Henry 34 jc.....Weiser
Neilson, Thomas Fenton 32 b.....Los Angeles, Cal.
Nelson, Arthur Paul 35 met.....Boise
Nelson, Arvid Richard 34 law.....Moscow
Nelson, Bernard Anthony 34 min.....Barber
Nelson, Einar Fritjof 33 ed.....Moscow
Nelson, Elvera Victoria 33 jc.....Moscow
Nelson, Ernest Vernon 34 ed.....Moscow
Nelson, James Harold 32 ag.....Shelley
Nelson, Vernon Jerome 34 ee.....Troy
Neveux, Hollis Eugene 35 jc.....Coeur d'Alene
Newcomb, Lawrence Sharp 34 f.....Coeur d'Alene
Newhouse, Pauline Louise 34 jc.....Boise
Nichols, Grace Evelyn 34 jc.....New Haven, Conn.
Nicholson, Donald Eugene 32 b.....Star
Nicholson, Kathryn Margarette 35 jc.....Boise
Nichols-Roy, Vida Theodora 34 jc.....Mountain View, Shillong, Assam, India
Niedermeyer, Harold Oliver 32 ch.....Post Falls
Nixon, Robert Michell 32 b.....Twin Falls
Noble, Harriet Louise 33 ed.....Moscow
Nock, Wesley Stephan 34 jc.....Mesa
Nollie, Kenneth John 34 ce.....Trail, B.C., Can.
Norby, John Heyerdahl 34 ed.....Rupert
Norell, Doris Irene 34 ed.....Mountain Home
Norell, James Alden 32 ed.....Mountain Home
Normington, Bula Bechtel 32 ed.....Moscow
Northby, Walter Latham 33 g.....Minneapolis, Minn.
Northug, Gunvor Pauline 32 ed.....Lewiston
Noyes, Rachael Louise 33 ed.....Orofino
Nunemaker, Jack Coleman 32 med.....Twin Falls
Nutting, Richard Curtice 35 ag.....Rupert
O
O'Brien, Catherine Helen 33 a.....Spokane, Wn.

O'Brien, Robert McCarthy 33 med
Spokane, Wn.
O'Bryan, Gordon Charles 35 me.....Lewiston
O'Connor, Clement James 35 jc.....Moscow
O'Dea, Mary Eileen 35 jc.....Spokane, Wn.
O'Donnell, John Morris 34 law Coeur d'Alene
O'Hara, Alice Katherine 32 b.....Moscow
O'Hara, Dorothy Eveleen 35 ed.....Moscow
O'Leary, Kenneth Webster 33 law
Salt Lake City, Utah
O'Neal, Ethlyn Virginia 35 jc.....Rupert
O'Neil, Catherine Jane 33 a.....Coeur d'Alene
Oberholtzer, William Dick 33 b.....Burley
Obermeyer, Betty 35 jc.....Emmett
Obermeyer, Lewis, Jr. 35 jc.....Emmett
Olmstead, Bessie Pauline 34 ed.....Plummer
Olmstead, Ralph Lee 32 ag.....Plummer
Olmstead, Ralph Webb 32 a.....Minidoka
Olsen, Lillian Rachel 34 ed.....Jerome
Olson, Everett George 35 ee.....Coeur d'Alene
Olson, John Scott 34 jc.....Spokane, Wn.
Olson, Kermit Ferdinand 32 ag.....Nezperce
Olson, Marvin Ardell 33 g.....Coeur d'Alene
Olson, Peter Edward 34 ce.....Coeur d'Alene
Olson, Roy Elmer 35 ag.....Weiser
Opie, Robert Stanley 34 f.....Butte, Mont.
Oreiro, Andres Almojuela 33 ed
Bacnotan, P.I.
Orlandini, Bruno 35 ch.....Kellogg
Orr, Kenneth Dew 34 jc.....Moscow
Osborn, Ralph Ransom 35 ag.....Hailey
Ostermeier, Edwin Charles 35 ag.....Parma
Ostroot, Edwin Earl 33 jc.....Moscow
Ostroot, Norval Theodore 34 jc.....Moscow
Otness, Bernard Milton 32 ag.....Moscow
Otter, Mildred Clayville 32 h.....Paul
Oud, Margaret Elizabeth 33 ed.....Orofino
Owen, Merritt Alfred 34 jc.....Boise
Owens, Herbert Evan 32 ed.....Twin Falls

P

Palmer, Ernest Joseph 32 ag.....Malad
Palmer, George Lowell 33 ag.....Obsidian
Pamatian, Pampilo M. 32 med Malcata, P.I.
Papesh, George Wencil 35 jc.....Kellogg
Pardue, Verna Delia 32 a.....Craigmont
Parish, Harriet Esther 35 jc.....Spokane, Wn.
Parker, Edwin John 32 me.....Moscow
Parker, Gertrude Marlys 33 ed.....Lewiston
Parker, John William 34 f.....Garden Valley
Parker, Ruth Etta 33 h.....Moscow
Parks, Homer William 33 f.....McCall
Parks, Kenneth H. 33 æ.....Culdesac
Parmer, Karam Singh 32 a.....Baddon,
Punjab, India
Parrott, Helen Arlene 32 a.....Twin Falls
Parrott, Irene Grace 35 jc.....Twin Falls
Patch, Jesse Harrison 32 b.....Boise
Patch, Lois Allerton 32 ed.....Payette
Patchen, Mable Ruth 33 ed.....Coeur d'Alene
Patton, Regina Mae 35 ed.....Palouse, Wn.
Paulsen, Fern Marie 34 jc.....Lewiston
Paulson, Paul Edwin 34 me
New Westminster, B.C., Canada
Peach, Darleen Inez 35 ed.....Priest River
Peacock, John Jones 33 law.....Weiser
Pearce, Thelma Bernadine 32 a.....Kellogg
Pearson, Rodney Alma 35 ag.....Moore
Peavey, Frank Harris 35 ce.....Twin Falls
Pechanec, Joseph Frank 32 f.....Nampa
Peck, Lawrence Layne 32 s.....Buhl
Pellum, Milton Barney 35 jc.....Twin Falls
Pence, Albert Lloyd, Jr. 33 ce.....Payette
Pence, James Orville 33 ch.....Mackay

Pence, Peter Munson 32 s.....Payette
Penwell, Park Hugo 34 ag.....Moscow
Perrine, Eugene 34 jc.....Twin Falls
Peterson, Ernest Dean 32 ce.....Aberdeen
Peterson, Evelyn Margaret 35 jc.....Potlatch
Peterson, Helen Elizabeth 34 jc.....Sandpoint
Peterson, Homer Franklin 35 min.....Potlatch
Peterson, Ina Millicent 32 b.....Moscow
Peterson, Joseph Roberts 34 jc.....Boise
Peterson, Lawrence Joseph 34 ee.....Sandpoint
Peterson, Maurine Laura 34 n.....Potlatch
Peterson, Mildred Edna 34 jc.....Viola
Peterson, Vivian Iola 34 ed.....Coeur d'Alene
Phelps, Timothy Guy sp jc.....Moscow
Phinney, Margaret Blair 33 s.....Sandpoint
Pierce, Horace Elburn 35 jc.....Twin Falls
Pierce, Wallace Hamilton 32 med
Cottonwood
Pierson, Emma Lorine 35 ed.....Worley
Pimental, Joseph Edwin 34 ch.....Shoshone
Piper, Ralph James 35 ed.....Buhl
Pizey, Pauline Martha 33 ed.....Boise
Plastino, Benjamin 32 a.....Camas
Plastino, Genio Jene 33 ch.....Camas
Pomeroy, Wray Sanders 35 ce
Anaheim, Cal.
Pontius, Rex Burns 32 s.....Lewiston
Pope, Steven John 34 ee.....Hayden Lake
Potter, James Thomas Mitchell 34 jc
Ontario, Ore.
Poulton, Edward Eli 32 ed.....Churchill
Powell, John William 34 ee.....Rupert
Powers, Helen Marie 32 b.....Rupert
Powers, William Douglas 35 ed.....Sublett
Pratt, Glenn William 32 ag.....Firth
Prichard, John Vogt 35 jc.....Moscow
Proctor, Mary Elizabeth 32 a.....Nampa
Puckett, Dorothy Italy 35 ed.....Potlatch
Puckett, Ruth Miles 35 jc.....Boise
Pugh, Donald Byron 35 b.....Springston
Pugh, Eugene V. 34 jc.....New Plymouth
Pugh, Helen Mae 35 ed.....Harrison
Pugh, Helen Margaret 35 jc.....Springston
Puhl, Jack Richard 32 a.....Moscow

Q

Quarles, William Phinney 35 ed
Coeur d'Alene
Quasdorf, Frank August 33 ee.....Pocatello
Quist, Frederick Fenn 34 ee.....Kooskia

R

Raide, Theodore Emil 34 f.....Enaville
Ramos, Roman Bolompo 32 ce
Bauan, Batangas, P.I.
Ramstedt, Agnes Matilda 33 m.....Moscow
Ramstedt, Bernard Nathaniel 32 b.....Moscow
Randall, Laverne John 34 ed.....Moscow
Randall, Naomi Gladys 33 a.....Lewiston
Rantschler, John Milford 34 ed
Metaline, Wn.
Raphael, Grace Esther 32 ed.....Weiser
Rasmussen, Russell Asoph 32 ag
Soda Springs
Rasor, Charles Alfred 32 g.....Boise
Ratcliffe, Charles Leonard 33 mus.ed.
Twin Falls
Rawls, Lois Alline 34 jc.....Boise
Rawson, Rose Elizabeth 35 jc.....Moscow
Reardon, Catherine Anne 33 ed.....Moscow
Redfield, Marjorie Jean 35 jc.....Spokane, Wn.
Redford, Hugh 34 law.....Rupert
Redman, Elliott Eugene 33 f.....Pocatello
Redmond, Mary Frances 34 ed.....Priest River

- Reed, Philip Peter 35 f.....Coeur d'Alene
 Reese, Blanche Elizabeth 35 jc.....Meridian
 Reeves, Elton Traver 32 s.....Craigmont
 Rehberg, Martha Jean 35 jc.....Kamiah
 Reid, Robert Johnson 35 jc.....Idaho Falls
 Reiersen, Hattie Gunhilda 32 ed.....Troy
 Reiersen, Peter Albert 33 med.....Troy
 Reiger, Bernard Joseph 34 ag.....St. Maries
 Renfrew, Malcolm MacKenzie 32 s.....Potlatch
 Rentfro, Myrl Rosalind 32 a.....Colfax, Wn.
 Requist, Charles Raymond 35 jc.....Gooding
 Reynolds, Gray Dickson 34 f.....Ogden, Utah
 Reynolds, Lois Bernice 34 jc.....Emmett
 Rice, Eldred Alvin 34 ch.....Longview, Wn.
 Rich, George David 35 jc.....Filer
 Richards, Horace 32 f.....Bend, Ore.
 Richards, Mary Larene 34 ed.....Moscow
 Richardson, Dorothy Miranda 32 a.....Moscow
 Richardson, Frederick William 35 jc Orofino
 Richardson, Jean Almira 34 ed.....Moscow
 Richardson, Helen Margaret 35 jc.....Moscow
 Ricker, Jean Alice 35 jc.....Kellogg
 Rieger, George Fred 32 b.....Boise
 Rietze, Florence Ethel 32 ed.....Moscow
 Riggins, Ira Dale 33 s.....Lewiston
 Riley, Alene 35 jc.....Rupert
 Riley, Mary Katherine 36 jc.....Spokane, Wn.
 Riordan, Stephen Michael 35 me.....Parma
 Riutcel, Lloyd Adelbert 34 jc Anaheim, Cal.
 Roark, Rosanne Virginia 35 jc Spokane, Wn.
 Robb, Harry Alexander 32 ed.....Nampa
 Robb, William 34 ed.....Nampa
 Robel, Dorothy Amelia 33 ed.....Lewiston
 Robel, Eugene Frank 34 g.....Lewiston
 Roberts, Frederick Fezer 32 ee.....Parma
 Roberts, Lester R. 34 ed.....Moscow
 Roberts, Norman 35 me.....Parma
 Roberts, Roberta 34 ed.....Spokane, Wn.
 Roberts, William Linn 34 jc.....Idaho Falls
 Robison, Clayne 34 a.....Boise
 Robison, Tom Harry 35 ed.....Deary
 Rodell, Chester 35 ed.....Hayden Lake
 Rodemack, Ira Samuel 33 ed.....Garden Valley
 Rosch, Winston Leigh 34 ed.....Spokane, Wn.
 Rogers, Harold Glenn sp ee.....Moscow
 Rogers, Lena Belle 32 h.....Rupert
 Rohrer, Florence Idaho 32 ed.....Boise
 Roman, Richard 35 ch.....Kellogg
 Romero, Juan Derman 33 a.....Cebu, P.I.
 Rosbach, Frank Joseph, Jr. 35 jc St. Anthony
 Rose, Melvin Truman 32 me.....Spokane, Wn.
 Rosecrans, Dorothy Louise 35 jc.....Rupert
 Rosell, Martin Bernard 32 b.....Elk River
 Rosenau, Marie Marjorie 34 jc.....Genesee
 Ross, Clyde Allen 33 ee.....Moscow
 Ross, George Thomas 34 ee.....Culdesac
 Ruddell, Eunice Sarah 35 ed.....Moscow
 Rudge, Nona Elizabeth 35 jc.....Nampa
 Rusho, Ernest Jay 33 me.....Blanchard
 Rusho, Stanley Frank 32 b.....Blanchard
 Russell, Irene 33 a.....Chewelah, Wn.
 Russell, Maurice Lloyd 35 jc.....Twin Falls
 Rust, Henry George 34 ee.....Coeur d'Alene
 Rust, Paul James 35 jc.....Coeur d'Alene
 Rydholm, Margaret Victoria 34 jc.....Moscow
- S**
- Sachse, Alfred John 33 ce.....Hayden Lake
 Sackett, Melvin Ernest 33 g.....Twin Falls
 Salskov, Jim Franklin 35 jc.....Emmett
 Salskov, Karl Andrew 32 g.....Emmett
 Salvador, Bernardo Secolles 35 ce Loaag, P.I.
 Sanders, Cecil Albert 32 b.....Idaho Falls
 Sanders, Jack Lawrence 36 jc.....Seattle, Wn.
 Sanders, Sheldon Clyde 32 ag.....Roberts
 Sandow, Harry 35 ed.....Blackfoot
 Sasany, Abul Hassan 35 jc.....Tabriz, Persia
 Sather, Bernice Muriel 35 jc.....Moscow
 Sather, Harold Percifer 35 f.....Nezperce
 Sather, Norman John 34 met.....Kellogg
 Saunders, Gene Douglas 35 ed Bonners Ferry
 Scarborough, Charles Roy 33 ed
 Schaller, Maurice Raymond 34 f
 Schallert, Maurice Raymond 34 f
 Schlueter, DeVere Waldo 35 jc.....Moscow
 Schlueter, Mary Caroline 35 ed.....Genesee
 Schmitz, Orville Lillis 35 ed.....Lewiston
 Schneider, Frederick Victor 34 min
 Schneider, George Rudolph 32 ag
 Schneider, Margaret Elizabeth 35 jc
 Schodde, Henry Thomas 34 ag.....Heyburn
 Schofield, Ira Mae 35 ed.....Rupert
 Schoonmaker, Winifred 33 ed Portland, Ore.
 Schumacher, Charles Peter 34 jc.....Moscow
 Schumacher, Keith Albert 33 ag.....Moscow
 Schumacher, Richard Wilbur 35 ag.....Moscow
 Schutte, William Henry 33 ed
 Schwarz, Arthur Roger 34 mus.ed.....Lenore
 Scoggin, Charles Oscar Samuel 34 jc
 Scott, Dorothy Jean 34 ed.....Moscow
 Scott, Edna Louise 34 jc.....Moscow
 Scott, Eugene Connor 33 b.....Idaho Falls
 Scott, Fern Helen 32 ed.....Moscow
 Scott, Mary Margaret 34 jc.....New Plymouth
 Scrafford, Herbert Sanford 33 ed.....Kellogg
 Seatz, Owen Hyder 35 ag.....Winchester
 Selby, Wilbur Rodney 35 jc.....Eagle
 Senften, Leo Henry 35 ag.....Castelford
 Senger, Mary Elizabeth 34 ed.....Boise
 Serafin, Fred Frank 33 b.....Glide, Ore.
 Severine, Raynor Howard 34 ee.....Emmett
 Sexton, Tina Joy 33 ed.....Inkam
 Shanafelt, Paul Merle 35 jc.....Hailey
 Sharp, Lura Lee 32 b.....Filer
 Shaw, Alfred O. 32 ag.....Moscow
 Shaw, Delbert McKean 33 b.....Caldwell
 Shawen, Grace Esther 34 jc.....Pomeroy, Wn.
 Shawen, Martha Mahala 32 ed Pomeroy, Wn.
 Shawver, Cecil Ellis 34 ag.....Jerome
 Shepherd, Margaret Iva 35 jc.....Moscow
 Sherry, Harold Raymond 32 b.....Hailey
 Shih, Hsien-Ju 33 a.....Peichen, China
 Shipman, Horace Jennings 33 ag Twin Falls
 Shissler, Franklyn Bassett 33 min
 Shonts, James Goddard 35 me.....Grangeville
 Shonts, Margaret Adele 35 jc.....Wallace
 Showalter, Francis Harlen 35 min.....Donnelly
 Showalter, Ted Harry 33 me.....Nampa
 Siapoosh, Abbas Sattar 35 min
 Silvey, Edna A. 35 jc.....Tabriz, Persia
 Simmons, Beulah Berniece 32 a.....Moscow
 Simmons, Gayle Joseph 35 ed.....Craigmont
 Simon, William Edgar 35 me.....Cottonwood
 Simpson, Florence 34 jc.....Moscow
 Simpson, Helen Dorothy 32 a.....Pocatello
 Sinclair, Frederick Norman 34 jc.....Rupert
 Singh, Rattan R. S. 32 med.....Davis, Cal.
 Siple, Virgil Arthur 34 ag.....New Plymouth
 Skina, Ansbart George 34 ee.....Wallace
 Skina, Fred Arthur 34 ee.....Wallace

Skinner, Eva Helen 33 ed..... Moscow
Slater, Irvin W. 33 ag..... New Plymouth
Smead, Margaret Adell 35 jc..... Guild
Smith, Anne Henrietta 35 jc..... Salmon
Smith, Bernice Winters 33 mus.ed..... Moscow
Smith, Franklin Edward 34 jc..... Malad
Smith, Fredericka Harper 35 jc Seattle, Wn.
Smith, Glen T. 32 med..... Jerome
Smith, Jack Howard 35 me..... Wilder
Smith, Laurence Nichols 32 law.....
Omaha, Nebr.
Smith, Louis DeSpain 32 med Spokane, Wn.
Smith, Raleigh Webster 34 ee..... Leland
Smith, Ruth Lydia 35 ed..... Lewiston
Smith, Rita Vyola 34 ed..... Moscow
Smith, Wayne Burr 34 ee..... Emmett
Smith, Willis Merton 34 ed..... Pearl
Smith, Zedna Armour 32 ed..... Moscow
Smuin, Frank Delmore 32 law..... Ashton
Sneath, Clifford Ardell 35 ag..... Lapwai
Sneve, Orton Severin 33 b Costa Mesa, Cal.
Snider, Theron Clay 34 ee..... Rupert
Snow, Annie Elizabeth 34 jc..... Rigby
Snow, Nettie Marie 33 ed..... Council
Snow, Roland Verl 35 ag..... Burley
Snyder, Donald Clyde 33 ch..... New Plymouth
Soderquist, Marvin Kenneth 33 med.....
Idaho Falls
Sogard, Erma Deane Carolyn 35 jc Culesac
Sommercamp, James Peyton 32 b..... Weiser
Songstad, Violet Evelyn 34 jc..... Moscow
Sorenson, Lillian Louise Christine 35 mus.ed.....
St. Maries
Sowder, Kenneth Irving 35 ed Coeur d'Alene
Sowder, Raymond William 35 jc.....
Coeur d'Alene
Space, Hazel Mary 33 a..... Kooskia
Spaid, Stanley Sheldon 32 a..... Shoshone
Spaugh, Arthur Earl 32 ed..... Nampa
Spear, Clayton Verne 35 jc..... Clarkia
Speirs, Neil Parker 35 ed..... Moscow
Spence, Ethel May 34 jc..... Moscow
Spence, Robert Leslie 35 min.....
Park Ridge, Ill.
Spencer, Fern Evelyn 33 h..... Princeton
Spencer, Hannah Irene 35 jc..... Moscow
Spencer, Jesse Raymond 32 ag Palouse, Wn.
Spencer, Mabelle Crane 33 ed..... Moscow
Spencer, Mathew Bernard 33 ag..... Victor
Spencer, Walter Earl 32 ce..... Spirit Lake
Spiker, Emmet Elmer 34 s..... Sweetwater
Spoor, Oro Dorothy 33 a..... Sandpoint
Spotswode, Kermit Herbert 35 jc..... Payette
Sprague, Harold Leasure 34 g..... Lewiston
Sproat, Hugh, Jr. 33 ag..... Boise
Squance, William Jaynes 34 jc..... Wallace
Stalker, Lloyd E. 32 ar..... Moscow
Standahl, Josephine Marie 34 ed.....
Coeur d'Alene
Stansell, Earl Raymond 32 ag..... Kimberly
Stanton, Jack Myers, Jr. 35 me..... Eagle
Stanton, Richard Kenneth 34 jc..... Moscow
Stark, Russell Hunter 35 g..... Middleton
States, George Warren 35 jc..... Preston
St.Clair, Eugenia 33 a..... Idaho Falls
St.Clair, Gilbert Clency 34 jc..... Idaho Falls
Stedfeld, Norman Virgil 32 law..... Pocatello
Steele, Ruth Edna 32 ed..... Gooding
Stephens, Amos Russell 33 b..... Nampa
Stern, John Lionel 34 jc..... Moscow
Sternke, Gordon Wesley 34 b..... Idaho Falls
Stetler, Helen Ruth 32 mus.ed..... Payette
Stevens, Courtenay Emal 36 f..... Boise
Stevens, Walter Frank 34 ag..... Richfield
Stevenson, Thayer Benjamin 36 jc..... Rupert
Steward, Virginia Marguerite 34 jc.....
Spokane, Wn.
Stewart, Lorraine Grace 34 jc..... Boise
Stewart, Melvin Flenor 32 b..... Boise
Stewart, Thomas Basil 35 jc..... Moscow
Stilwell, Clarence Edmund 33 f Granger, Wn.
Stivers, Hubert Charles 35 jc..... Moscow
Stoehr, Karl Frank 33 ag..... Boise
Stokes, Wayne Ira 33 ag..... Hill City
Stone, Marjorie Helen 33 h..... Ashton
Stone, Samuel James, Jr. 34 mus.ed.....
Coeur d'Alene
Stone, Vivian Lavina 35 jc..... Moscow
Storch, Dick Henry 34 min..... Omak, Wn.
Stowell, Harold Bowman 32 ed..... Pocatello
Strang, James Everett 35 me..... Moscow
Strawn, Raymond Emory 35 ch..... Boise
Strom, Arnold Granville 34 me..... Troy
Strom, John Wolfgang 36 f..... Rathdrum
Strong, Joseph Ernest 35 jc..... Montpelier
Stuart, Mary Louise 35 ed..... Kamiah
Studebaker, Claude Harold 34 ce..... Sagle
Sturman, Roland Benjamin 32 ed..... Tensed
Sullivan, Lloyd 33 ed..... Twin Falls
Sullivan, Samuel Arlo 33 ee..... Jerome
Summerfield, Carlotta Marie 35 jc..... Moscow
Sumpter, Pauline 35 ed..... Tensed
Swann, Herschell Wallace 35 jc..... Orofino
Swanson, Carl Edward 35 ed..... Bellevue
Swanson, Robert Samuel 32 me Idaho Falls
Swanson, Theodore William Erhard 33 g.....
Moscow
Swayne, Allen Parke 32 f..... Melba
Swayne, Rhoda Hollingsworth 33 a..... Melba
Swayne, Samuel Fothergill 34 law..... Melba
Sweeney, David Mann 33 b..... Idaho Falls
Swindaman, George Robert 32 s..... Burley
Syme, Betty Harriette 35 ed..... Watson, Ore.

T
Taft, Frank Andrew 34 min..... Athol
Talbot, Gerald Orton 33 ed..... Caldwell
Talbutt, John 35 ee..... Moscow
Talbutt, LeVera May 34 jc..... Moscow
Talbutt, Loyal Elmer 34 s..... Moscow
Talbot, Marjorie Ruby 34 jc..... Weiser
Talley, Keith Timmerman 35 me..... Nampa
Tallington, Catherine Elizabeth 32 a.....
Lewiston
Tanghe, George Washington 35 ed St. Maries
Tanner, Marthalene Ellen 33 a..... Twin Falls
Tanner, Mildred Hogg 34 ed..... Moscow
Tannler, Walter Frederick 35 jc..... Buhl
Taylor, Curtis Ray 35 ag..... Rigby
Taylor, Cyprian Douglas Neufville 32 f.....
Nelson, B.C., Canada
Taylor, Morton Casady 34 jc..... Nampa
Taylor, Paul Frederick 33 ed..... Twin Falls
Tedford, Jean Marie 32 s..... Priest River
Teed, William Edward 35 jc..... Coeur d'Alene
Tegland, Constance Janice 35 jc..... Genesee
Telfiero, Helen Virginia 34 jc.....
Browning, Mont.
Temby, Phyllis Mildred 35 ed..... Kellogg
Tendall, Arlene Virginia 34 ed Coeur d'Alene
Tenney, Rosamond 35 jc..... Ogden, Utah
Terwilliger, Harry Willard 32 s..... Nampa
Theriault, Helen Catherine 34 jc. St. Maries
Thomas, Georgia Emma 32 ed..... Moscow
Thomas, John Herold 34 ed Los Angeles, Cal.
Thomas, LaVernon Grace 32 a..... Kellogg
Thomas, Lois Geraldine 34 ed..... Ashton
Thomas, William Bond 35 min..... Twin Falls

Thomason, Howard Baker 35 jc.....Sandpoint
 Thompson, Charles Hinds 34 ce.....Gooding
 Thompson, Eldred Virginia 34 jc.....Gooding
 Thompson, Elizabeth Ann 34 jc.....Moscow
 Thompson, Lois Marian 32 mus.ed.

Post Falls

Thompson, Roy Edward 35 jc.....Orofino
 Thompson, Virgil Nelson 32 ce.....Moscow
 Thoms, Katharyn Mary 34 ed.....Spokane, Wn.
 Thornber, Merrill Strickland 34 f.....Lewiston
 Thornhill, Evelyn Mae 34 jc.....Kellogg
 Thornhill, Helen Margaret 34 ed.....Kellogg
 Thornhill, Maxine 32 h.....Kellogg
 Thorsen, Martin Tollef 32 ag.....Nezperce
 Throckmorton, Sara Louise 34 jc.....Boise
 Thurman, Isaac Kern 33 ed.....Buhl
 Tibbs, Olive Florence 34 ed.....Potlatch
 Tierney, John Jacob, 35 jc.....Uniontown, Wn.
 Tierney, Mabel Catherine 35 ed

Uniontown, Wn.

Tierney, Richard Anthony 36 ed
 Timken, Howard Woodrow 35 g.....Kellogg
 Tobin, Edward Thomas 35 jc.....Idaho Falls
 Todd, Glenn Clayton 35 jc.....Troy
 Tomlinson, Erwin Mortimer 33 b.....Buhl
 Tompson, Ross Bartlett 33 s.....Troy
 Torgerson, Dorothy Clara 32 ed.....Moscow
 Torrey, John Stephen 34 jc.....Glendale, Cal.
 Town, Merton Herington 35 ee.....Moscow
 Towns, William Lionel 34 f.....Sioux City, Ia.
 Tracy, Orrin Ardeen 34 jc.....Moscow
 Trail, Floyd Watson 33 ag.....Caldwell
 Trenhaile, Stanley Irving 35 ag.....Rupert
 Trimble, George Richard, Jr. 35 f

Seaford, Del.

Trimble, Mary Elizabeth 34 jc
 Trueman, John Wiman 33 b.....Aberdeen, Wn.
 Tucker, Dudley Grant 35 ag.....St. Maries
 Tucker, Leonard John 33 ee.....Parma
 Tucker, Robert Clifton 34 jc.....Kathdrum
 Tulley, Miriam Gladys 32 ed.....Emmett
 Tumelson, Floyd Orville 35 f.....Worley
 Turabi, Sadig T. 35 me.....Peck
 Turner, Edmond L. 35 jc.....Tabriz, Persia
 Turner, George Thomas 35 f.....Twin Falls
 Turner, Ida Mae 35 jc.....Kimberly
 Turner, Thomas Samuel 33 ed.....Wallace
 Tuson, William L. 35 jc.....Caldwell
 Tussing, Franklin Arthur 35 ae.....Kellogg
 Tuttle, Mary Ann 35 jc.....Fruitland
 Tyrrell, Hubert Leander 34 ed.....Moscow

U

Underdahl, Ruth Caroline 34 ed.....Moscow
 Upchurch, Ashbrook 35 jc.....Lapwai
 Utt, Eldred Earl 33 ed.....Kellogg

V

Vandegrift, Marjorie Anne 34 ed
 Van Sicklin, Roy 34 jc.....Mountain Home
 Van Uden, Robert Thomas 33 b.....Weiser
 Varian, Nina Louise 35 jc.....Wallace
 Verberkmoes, John Gates 34 jc.....Boise
 Vetter, Milton Elmer 32 s.....Kooskia
 Vincent, Elizabeth Alice 34 jc.....Spokane, Wn.
 Vincent, Robert Clarence 32 a.....Moscow
 Virgin, Walter James 35 ag.....Moscow
 Virtanen, Miriam Irene 35 jc.....Aberdeen
 Voigtlander, Theodore William 35 jc.....Mullan
 von Bargaen, John Herman 34 f.....Kellogg
 von Bargaen, John Herman 34 f.....Grangeville

von Ende, Carl Ankeney 33 ch.....Moscow
 Voshell, Robert Ellwood 32 law Colfax, Wn.

W

Wade, Ralph Mason 35 jc.....Lewiston
 Wade, Roger Kingman 34 ae.....Lewiston
 Wadsworth, Mary Abigail 34 a.....Kellogg
 Waggoner, Walter Lowell 32 ch

Walla Walla, Wn.

Wagner, Herman Edward 35 jc.....Lewiston
 Wahl, Tom 33 ee.....Genesee
 Wakeley, Sherman Earl 36 met Spokane, Wn.
 Wakeman, William Woodrow 35 jc.....Boise
 Walden, Harry Arthur 32 ed.....Bonners Ferry
 Walden, Sidney Philip 32 b.....Boners Ferry
 Wales, Ernest Law 33 ed.....Spokane, Wn.
 Walker, James Robert 35 ag.....Moscow
 Walker, Anne Margaret 35 jc.....Twin Falls
 Walker, Charles Linnaeus 33 b.....Boise
 Walker, Harvie Ellis 34 ed.....Scranton, Pa.
 Walker, Roland Cecil 34 b.....Santa
 Walker, Samuel Branch 35 ch.....Boise
 Wallace, Harriet Leslie 34 jc.....Boise
 Wallace, Robert Earl 35 jc.....Spirit Lake
 Wallis, Harry Randall 32 a.....Blackfoot
 Walter, Ione 33 ed.....Caldwell
 Walters, Pearl Hazel 32 a.....Moscow
 Walton, Delia May 33 ed.....Kootenai
 Walton, Lucille Slater 33 ed.....Moscow
 Wamsley, Russell Carol 34 ag.....Lapwai
 Wamstad, Charles Oscar 33 ce.....Parma
 Ward, Paul Coburn 34 ch.....Lewiston
 Warner, Charles Knight 35 jc.....Boise
 Warner, James Martin 33 b.....Boise
 Warner, Victor Eugene, Jr. 35 jc.....Boise
 Warren, Grace Margaret 32 ed.....Boise
 Wedgwood, George Warren 32 med.....Boise
 Weidman, Eva Lorraine 34 s.....Boise
 Weipert, Roy Harvey 34 jc.....Reardon, Wn.
 Welchko, Charles Louis 35 jc Bonners Ferry
 Wellhousen, Edwin John 32 ag.....Twin Falls
 Wellhousen, Harry William 34 ag Twin Falls
 Wellner, Charles August 33 f.....Twin Falls
 Wells, Wade Glen 34 ag.....Gooding
 Wendle, Chud Woods 33 b.....Sandpoint
 Wendt, Carl Benjamin 35 g.....Boise
 Werner, Ervin LaVerne 32 ce.....Moscow
 Wernette, Bernice Elizabeth 34 jc

Coeur d'Alene

Wernette, Frances Catherine sp law
 Wesler, Lillian Maude 32 a.....Coeur d'Alene
 West, Ruth Regina 32 a.....Burley
 Westberg, John Orville 34 f.....Shoshone
 Westerlund, Helmer 35 ee.....Chicago, Ill.
 Weston, Raymond Arnold 35 ee.....Coeur d'Alene

Spokane, Wn.

Wetherall, William Bascom 33 a
 Wetherell, Robert Miles 35 jc.....Des Moines. Ia.

Mountain Home

Weyermann, George Ferdinand 35 f

St. Maries

Wheeler, Frances Carolyn 34 jc.....Boise
 Whipple, Galt L. 34 jc.....Idaho Falls
 White, Elizabeth McLaren 35 ed.....Lewiston
 White, Fred Beardsley 33 ed Bonners Ferry
 White, J. Austa 32 h.....Colfax, Wn.
 White, Joseph Clarence 35 jc Coeur d'Alene
 Whitelaw, Howard Melvin 35 f

Nespelem, Wn.

Whitlock, Lloyd Elmer 34 jc Newberg, Ore.
 Whitney, Gerald Metier 33 ag.....Norwood
 Wicks, Alensen Heath 33 ed.....Pocatello

Wickwire, Parker Everington 32 ee	Spokane, Wn.	Witwer, Sheldon Russell 35 jc	Bonnars Ferry
Wilburn, Bertha Mae 35 ed	Jerome	Wolfe, Don Murray 33 s	Palouse, Wn.
Wilcox, Benjamin Gene 34 jc	Declo	Wolfe, Helen Lucile 35 jc	Spokane, Wn.
Willkie, Fred Whiffin 32 a	Idaho Falls	Wolfe, Ruby Lavina 35 jc	Potlatch
Williams, Alden Earl 33 ed	Burley	Wolff, Verona Wilhelmina 32 ed	Genesee
Williams, Donald Wallace 33 b	Omaha, Nebr.	Wood, Amelia Beth 34 ed	Boise
Williams, Dorothy Clara 34 ed	Bellevue	Wood, Beth Lois 32 h	Weiser
Williams, Dorothy Gerardine 34 jc	Spokane, Wn.	Wood, Joseph Gibson 34 med	Filer
Williams, Elizabeth Steward 32 ed	Twin Falls	Wood, William Travers 34 jc	Coeur d'Alene
Williams, Elton Vernon 35 ee	Moscow	Woodard, Don Audley 34 me	Spokane, Wn.
Williams, Jack Lloyd 34 ed	Malad	Woods, Constance Helen 32 a	Spokane, Wn.
Williams, Joyce Vivien 36 ed	Twin Falls	Woodward, George Kermit 35 jc	Moscow
Williams, Melborn Max 35 jc	Grangeville	Woodward, Ira Richard 34 jc	Payette
Williams, Milton Morse 33 ag	Boise	Woodworth, Horace Jerome 34 ed	Ferdinand
Williams, Otis Clyde 33 ed	Burley	Worley, Henry Howard 32 ch	Pocatello
Williamson, Harry Alexander 34 jc	Moscow	Wormward, Marcella Elizabeth 34 ed	Kellogg
Williamson, Robert Marvin 35 jc	Spokane, Wn.	Worth, Lawrence Wilbur 34 min	Melrose, Mass.
Willis, John William 35 jc	Opportunity, Wn.	Wright, Beulah Hester 32 ed	Rupert
Wilson, Catherine Jean 34 jc	Moscow	Wright, Charles Emmett 35 f	Greer
Wilson, George Green 34 ed	Moscow	Wright, Loren Hugh 34 f	Moscow
Wilson, Gladys May 33 a	Pocatello	Wright, Telpher Espa 34 ed	Plummer
Wilson, Harry Alfred 34 ed	Coeur d'Alene	Wunderlich, Jack Arthur 34 jc	St. Maries
Wilson, Ronald Brazee 33 ag	Burley	Wurster, Marjorie Bell 35 mus.ed.	Rogerson
Wilson, Vivian Mildred 35 jc	Moscow	Wyatt, Harriet Louise 35 mus.ed.	Spokane, Wn.
Wimer, Frances 35 mus.ed.	Wallace		
Wines, Jeanette Eda 35 ed	Boise		
Winn, Nita 34 jc	Buhl		
Winward, Wilbur Whitney 35 ag	Whitney		
Wiseman, Donald Miller 32 ee	New Plymouth		
Wiseman, Howard Leonard 33 s	Twin Falls		
Wiseman, Virginia Curtiss 33 b	New Plymouth		
Wishart, Harry Clarence 33 ed	Weiser		
Wiswall, John Wisdom 34 ag	Jerome		
Witherspoon, Charles Dwight 35 jc	Nampa		
Witter, Donald Kenneth 35 f	Moscow		
Witter, Harry Benjamin 34 ed	Moscow		

Y

Yager, William Edgar, Jr. 34 f	Dayton, Ohio
Yanik, Carl Boyce 32 ed	Boise
Yeomans, Clay Branstetter 36 jc	Boise
Yost, Max 35 jc	Boise
Young, Arthur Edward 33 b	Pocatello
Young, Burton Henry 33 ee	Rathdrum
Young, Harry Lloyd 32 b	Nampa
Young, Howard James 35 jc	Wallace
Yturri, John 34 jc	Mountain Home

Z

Ziminski, Henry Victor 35 f	Gardner, Mass.
Zimmerman, Katherine 35 jc	Palouse, Wn.
TOTAL UNDERGRADUATES.....1814	

STUDENTS REGISTERED FOR IN ABSENTIA
WORK ONLY

*Allen, James Kenneth	Endicott, Wn.	*Palmer, William Wendell	Malad
*Beasley, Hubert Harrison	Pocatello	Paul, Howard W.	Boise
*Benson, Ezra Taft	Boise	*Provost, Louisa Martin	Cottonwood
*Bjorkman, Swen Robert	Sugar	*Rinehart, Edward Franklin	Boise
Corlett, Edith R.	Nampa	Roberts, Rachel Ann	Twin Falls
*Deane, Luna Athen	Juliaetta	*Rowe, Clifford Paul	Kimberly
*Dick, Kenneth Andrew	Moscow	Ruiz, Fred	Nampa
*Drobish, Harry Everett	Boise	Sargent, Farmer Lacey	Sterling
*Hansen, Josie Bernice	Moscow	Sessions, E. B.	Malad
*Hansen, May Florence	Moscow	*Spence, Harry Lowe	Boise
Hoffman, Homera Vera	Pocatello	Standeford, W. F.	Burke
*Hollister, Frederic D.	Nezperce	*Stredder, Charles Albert	Hamer
Hostetler, Adelia Lillian	Nampa	*Young, Erma Lillian	Gooding
*Jacobson, Norman Jacob	Albion	STUDENTS IN ABSENTIA ONLY.....32	
Johnson, James	Nampa	STUDENTS IN ABSENTIA AND SUMMER	
*Lacy, James V.	Hubbard, Ore.	SCHOOL.....66	
Morrison, John Alfred	Preston	TOTAL STUDENTS REGISTERED FOR	
Morton, Lucy B.	Nampa	WORK IN ABSENTIA.....98	
*Olson, Marvel	Palouse, Wn.		

*Graduate Students.

SPECIAL STUDENTS IN MUSIC

Anderson, Robert	Potlatch	Lee, Alice	Moscow
Armour, Jean	Moscow	Mitchell, Norma	Moscow
Bolles, Marguerite Lee	Moscow	O'Dell, Myrtle	Moscow
Brannock, Lois	Bovill	Peterson, Albert Dean	Moscow
Claus, Emma J.	Moscow	Samm, Carol Jean	Moscow
Cox, Joe	Moscow	Scott, Helen	Potlatch
Craig, D. Faith	Moscow	Smith, Judson	Moscow
Cummings, Jean L.	Moscow	Walton, Charles	Moscow
Hollada, Artyle	Moscow	Walton, Dorothy S.	Moscow
Houx, Marvel	Orofino	Wheeler, Leora	Potlatch
Kienholz, Helen	Moscow		TOTAL 21

COMMERCIAL DAIRYING

Baker, Andrew T.	Orofino	Merritt, J. M.	Idaho Falls
English, J. Orville	Parma	Neibaur, Leonard	Emmett
Forsell, Landen C.	Twin Falls	Rogers, Lester H.	Moscow
Greif, Al	Cashmere, Wn.	Trout, Charles Ross	Troy
Kasper, Phillip	Moscow		TOTAL 9

MOTOR MECHANICS

Altig, Ralph E.	Caldwell	Kidder, Philip W.	Plummer
Anderson, Palmer Marion	Genesee	Koontz, Francis R.	Fullerton, Cal.
Fogle, James Gerald	Moscow	Odenburg, Delas Clinton	Genesee
Foster, Russell K.	Moscow		TOTAL 8
Johnston, Albert	Moscow		

SUMMER SCHOOL, 1931

Graduate Students

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
Abrahamson, Gust Emil, B.S. 1926, University of Minnesota		Education	Eden
Albertson, Ruthella Marjorie, B.M. 1929, University of Idaho			Blackfoot
Allen, Cyril Stanford, B.S.(Agr.) 1929, University of Idaho		Agricultural Education	Idaho Falls
*Allen, Vada Hazel, B.S. 1927, University of Idaho		Botany	Moscow
Anderton, Edwin Cadwell, B.S. 1922, Oregon State Agricultural College		Education	Ricanland, Ore.
†Andrews, Howard Thomas, B.S.(Ed.) 1929, University of Idaho		Education	Parma
Armstrong, Ray Dean, B.S.(C.E.) 1913, University of Idaho		Education	Rupert
Baird, Thomas Orville, B.A. 1930, University of Idaho			Peck
†Barclay, Mary Louise, B.A. 1928, College of Idaho		Education	Burley
*Barnard, Berenice Nellie, B.M. 1930, University School of Music, Nebraska		Education	Superior, Nebr.
†Barrett, Alice Allegra, A.B. 1920, College of Idaho		Education	Lewiston
†Barrus, Benjamin Harrison, B.S.(Ed.) 1926, University of Idaho		Education	Mackay
Becker, Margaret Claire, B.S.(Mus.Ed.) 1930, University of Idaho			Genesee
†Bedford, Mary Dresser, B.A. 1913, Whitman College		Education	Lewiston
Bell, Margaret Joy, A.B. 1924, Asbury College		Education	Moscow
*Bell, Vinnie John, B.S.(Ed.) 1931, University of Idaho		Education	Farmington, Wn.
*Benjamin, Lester Vance, B.S. 1920, Michigan State College		Agronomy	Moscow
†Black, Pearl Kitch, B.S.(Ed.) 1931, University of Idaho		Education	St. Maries
†Bowdish, Avis, B.S. 1928, University of Idaho		Psychology	Pierce
†Brebner, Edith Alice, B.S.(Ed.) 1924, University of Idaho		Education	St. Maries
Brigham, Burnis Burton, B.S.(Ed.) 1931, University of Idaho		Education	Moscow
Brigham, Forest Lewis, B.M. 1929, University of Idaho			Moscow
†Bristol, Ralph Scott, B.S.(Agr.) 1924, University of Idaho		Agronomy	Salt Lake City, Utah
†Brown, Agnes Mae, B.A. 1922, University of Idaho		Education	Moscow
†Brown, Clifford Clarence, B.S.(Ed.) 1928, Washington State College		Education	Pocatello
†Buchholz, John Jacob, B.S.(Ed.) 1926, University of Idaho		Education	Glenns Ferry
Burton, Miriam, B.S.M. 1929, University of Idaho			Moscow
†Busby, Clifton George, B.S. 1911, Utah Agricultural College		Education	Pocatello
*Calland, Leo Blakeley, B.A. 1923, University of Southern California		Education	Moscow
†Campbell, Harlow Henry, B.S.(Ed.) 1926, University of Idaho		Education	Lind, Wn.
Campbell, Oren Floyd, B.S.(Ed.) 1925, University of Idaho		Education	Wallowa, Ore.

*Resident in Summer School 1931 and regular session 1931-32.

†Resident in Summer School 1931 and registered in absentia 1931-32.

LIST OF STUDENTS

265

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
†Campbell, Raold Fay, A.B. 1930, Brigham Young University	Education		Moore
†Carlson, Carl Robert, A.B. 1928, University of Washington	History		Ketchikan, Alaska
†Carlson, Lenus LeRoy, B.S.(Ed.) 1924, University of Idaho	Education		Lewiston
Carter, Andrew Vincent, A.B. 1926, Gooding College	Education		Gooding
Carter, Lucile Ella, B.A. 1929, Gooding College	Education		Gooding
†Charrey, Thomas Howard, B.S. 1926, Whitman College	Education		St. Anthony
†Chedzoy, David Charles, B.A. 1925, Washington State College	Education		Wallace
Clark, Laura Alice, B.S.M. 1930, University of Idaho			Filer
Cole, Orby David, B.S.(Ed.) 1931, University of Idaho	Psychology		Emmett
†Condie, John William, B.S.(Ed.) 1920, University of Utah	Education		Preston
†Conrad, Wilhelmina, B.A. 1926, College of Idaho	Education		Nampa
†Coil, Clarence James, B.A. 1912, Washington State College	Education		Cheney, Wn.
*Correll, Theodore Harrison, B.S. 1927, University of Idaho	Education		Moscow
†Cowden, Ralph William, B.S.(Ed.) 1925, University of North Dakota	Education		Murtaugh
†Cowin, Cleon Clement, B.A. 1921, William Jewell College	Education		Nampa
Craner, William Richard, B.S.(Agr.) 1930, University of Idaho	Agricultural Education		
Davis, Evelyn Lee, B.A. 1926, University of Montana			Sugar City
†Davison, Gifford, B.S.(Ed.) 1927, University of Idaho	Education		Bozeman, Mont.
Decker, John Franklin, B.S.(Agr.) 1930, Utah State Agricultural College	Education		Nampa
Denman, George Ernest, B.S.(Agr.) 1916, Kansas State Agricultural College	Animal Husbandry		Aberdeen
†Derr, Alfred Morley, B.S.(Agr.) 1925, University of Idaho	Education		Burley
†Doane, Emery David, A.B. 1915, Willamette University	Education		Twisp, Wn.
†Doane, Emma Minton, A.B. 1917, Willamette University	Education		Grangeville
Dolan, Beatrice Dayton, B.S. 1926, University of Idaho	Psychology		Grangeville
†Downey, Harold Finley, B.S.(Ed.) 1930, University of Idaho	Education		Moscow
DuBois, Carol Jean, B.A. 1927, University of Idaho	English		Wendell
Dunlap, Eleanor Angeline, B.A. 1929, Whitman College	English		Moscow
Edwards, Harry Orman, B.S.(Agr.) 1923, University of Idaho	Education		Craigmont
†Erickson, Everett Russell, B.A. 1926, University of Idaho	Education		Snohomish, Wn.
Exelton, Lula Moore, B.S.(Ed.) 1927, University of Oklahoma	Education		Idaho Falls
Fattu, Nicholas Albert, M.S.(Ed.) 1931, University of Idaho	Education		Twin Falls
†Figley, Charles Currie, A.B. 1915, College of Idaho			Kellogg
†Flack, Gordon Lester, B.S.(Ed.) 1929, University of Idaho	Education		Hailey
Flack, Jean Fanning, B.S.(Ed.) 1931, University of Idaho	Education		Hailey
Foster, Edward Harold, B.A. 1929, Walla Walla College	Education		Kooskia
Fowler, Leroy Chestney, B.A. 1930, University of Idaho	Education		Twin Falls
*Fox, Mary Elizabeth, A.B. 1919, Dakota Wesleyan University	English		Wendell
Fox, Richard Anthony, B.S.(Agr.) 1925, University of Idaho	Education		Moscow
*Frazier, Leonard, B.S.(Ed.) 1929, University of Idaho	Education		Moscow
†Fridley, John Blaine, B.A. 1916, University of Kansas	Education		Lewiston
Fry, Hiram Durward, A.B. 1926, Gooding College	Education		Heyburn
Gardner, Leonard Martenis B.S.(Ed.) 1928, University of Idaho	Education		Jerome
*Garrison, Alta Howe, B.S.(Ed.) 1931, University of Idaho	Education		Seaside, Ore.
Gehrke, Maybelle Marie, B.A. 1925, University of Idaho			Moscow
Giles, Edith Rebecca, B.S.(Ed.) 1928, University of Idaho	Education		Moscow
Gillespie, James Clark, A.B.(Ed.) 1927, University of Washington	Education		Spirit River, Alta., Can.
†Gilmore, Lloyd, B.A. 1914, Macalester College	Education		Reubens
Gish, Alva Edwin, B.A. 1930, Walla Walla College	History		Rupert
Goudzward, Donald Martin, B.S.(Ed.) 1929, University of Idaho	Education		Twin Falls
Grabner, Frances Gallet, B.A. 1930, University of Idaho			Leland
†Grabner, Kenneth McCoy, B.S.(Ed.) 1930, University of Idaho	Education		New Plymouth
†Graf, Albert John, LL.B. 1922, University of Idaho	Education		New Plymouth
Hardman, Lillian Hazel, B.S. 1924, University of Idaho	Mathematics		Kellogg
†Hardy, Thomas Nicholas, B.A. 1920, University of Oregon	Education		Amsterdam
Harland, Josephine Amy, B.A. 1929, University of Idaho			Ashton
Harris, Nancy Welby, B.A. 1929, Whitman College			Troy
Hatch, Ernest W., B.S.(E.E.) 1931, University of Idaho	Education		Payette
Hill, John Logan, B.S.(Ed.) 1928, University of Idaho	Education		Weiser
Hoisington, Carl Wallace, B.S.(Ed.) 1929, University of Idaho	Education		Coeur d'Alene
†Hollingshead, Martha Mary, B.A. 1921, University of California	Education		Emmett
Holmes, Alvin Carl, B.S.(E.E.) 1931, University of Idaho	Education		Boise
†Hudson, George Taylor, B.S.(Agr.) 1926, University of Missouri	Agricultural Economics		Rupert
Hughes, Loren LaVerne, B.S.(Ed.) 1932, University of Idaho	Education		Moscow
Hulme, Mary Louise, M.A. 1929, Stanford University			Boise
Humphreys, Josephine Elizabeth, B.S.(Bus.) 1931, University of Idaho	Education		Palo Alto, Cal.
			Moscow

*Resident in Summer School 1931 and regular session 1931-32.

†Resident in Summer School 1931 and registered in absentia 1931-32.

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
Hunter, Elra Loren, B.S.(Ed.) 1925, University of Idaho		Education	Spokane, Wn.
Hunter, Julia Glenn, B.A. 1931, University of Idaho		English	Boise
Irwin, Leland Samuel, B.S.(Ed.) 1927, University of Idaho		Education	New Meadows
* Jackson, Alfred Wright, B.S.(Agr.) 1931, University of Idaho		Agricultural Education	Moscow
* Jacoby, Glenn James, B.A. 1928, University of Idaho		Education	Moscow
Jensen, Ernest Caleb, B.S.(Agr.) 1924, University of Idaho		Education	Moscow
† Johnson, Lloyd Gilmore, B.S.(Ed.) 1931, University of Idaho		Education	Lenore
† Johnson, Norman Edwin, B.S.(Ed.) 1928, University of Idaho		Education	Sandpoint
† Jones, Will James, B.S.(Agr.) 1906, Washington State College		Education	Wallace
Jungstrum, Charles Richard, B.S.(Ed.) 1928, University of Idaho		Education	Bliss
Keane, Josephine Johanna, B.S.(Ed.) 1927, University of Idaho		Education	Moscow
Keith, Florence, B.S. 1923, South Dakota State College			Ellingson, S. Dak.
† Kelly, Thomas Burt, B.S. 1910, South Dakota State College of Agriculture and Mech. Art		Education	Kellogg
Klink, Evelyn Rose, B.A. 1929, Whitman College			Burley
Lackey, Harold Wirth, B.A. 1924, Sioux Falls College		Education	Troy
Lame, Charles Calvin, B.S.(Ed.) 1927, University of Idaho		Education	Winchester
Langdon, Alwilda, B.A. 1929, University of Idaho		English	Lewiston
† Laughlin, Kyle Emmett, B.S.(Pre-Med.) 1931, University of Idaho		Education	Moscow
† Long, Rolla Edwin, B.S.(Ed.) 1916, Kansas State Teachers College		Education	Gifford
Longenbough, Dillon Alvin, B.S. 1926, Colorado Agricultural College		Agricultural Education	Malad
McCabe, Sister Mary Carmel, B.A. 1929, University of Idaho		English	Moscow
McKenna, Mary Agatha, B.A. 1920, University of Idaho		English	Spokane, Wn.
† Maeser, Karl Gilbert, A.B. 1915, Brigham Young University		Education	Shelley
Mason, Lowell Wesley, B.S.(Ed.) 1930, University of Idaho		Education	Endicott, Wn.
Mennett, Earl Frank, B.S.(Ed.) 1931, University of Idaho		Botany	Lewiston
Messenger, Dorothy Elizabeth, B.S.(Mus.Ed.) 1931, University of Idaho			Moscow
Minden, Edna Henrietta, B.S.(Ed.) 1928, University of Idaho		English	Oakland, Cal.
Mink, Chester Long, B.S.(Agr.) 1927, University of Idaho		Animal Husbandry	Gooding
Mitchell, Lutie Mae, B.S.(Mus.Ed.) 1931, University of Idaho			Nezperce
Moulthrop, Lena Verna, A.B. 1925, University of Washington			Emmett
† Murray, Milton James, B.S. 1924, Oklahoma Agr. and Mech. College		Education	Nampa
* Nelson, Emma Viola, B.A. 1929, University of Idaho		English	Moscow
Newman, Nina Kelso, B.S.(Mus.Ed.) 1931, University of Idaho			Twin Falls
Nielsen, Carl M., B.A. 1928, State Teachers College, Nebraska		Education	St. Maries
Nixon, Grace Virginia, B.A. 1930, University of Idaho		English	Genese
* Norgaard, Floyd Loren, B.A.(Ed.) 1931, Washington State College		Education	Stanwood, Wn.
Oliver, Mary Elizabeth, B.S.(H.Ec.) 1928, University of Idaho		Education	Moscow
† Olmstead, Sarita Madeline, B.S. 1922, Dakota Wesleyan University		Education	Nampa
* Otness, Herman Robert, B.S. 1931, University of Idaho		Education	Moscow
Otness, Olga Gertrude, B.A. 1927, University of Idaho		Education	Moscow
Pace, Maurice David, B.S. 1906, Denison University		Education	Bonniers Ferry
Parish, Bernice Aldene, B.A. 1930, University of Idaho		English	Buhl
Paroz, Marguerite Henriette, B.A. 1930, University of Idaho		French	Potlatch
† Payer, Josephine, B.S. 1908, Northwestern University		Education	Nampa
† Paylor, Mary Elizabeth, A.B. 1923, Northwest Nazarene College		Education	Nampa
† Peterson, Ralph Nicholas, B.A. 1930, University of Idaho		Education	Harrison
Peterson, Robert William, B.A. 1931, University of Idaho			Moscow
† Porter, Ralph Milton, A.B. 1920, Colorado State Teachers College		Education	Moore, Mont.
† Provost, Leo Gordon, B.S.(Ed.) 1924, University of Idaho		Education	Cottonwood
Ramstedt, Lucile Victoria, B.M. 1927, University of Idaho			Moscow
Redford, Wilma Agnes, B.A. 1925, University of Utah			Glenns Ferry
† Riddle, William Dixie, B.S. 1928, University of Idaho		Education	Creston, Wn.
* Ridge, Susie May, B.S. 1929, University of Idaho		Botany	Moscow
Rindy, Myrtle Angeline, B.A. 1928, University of Idaho		Education	Moscow
Roberts, Cyrus Elmer, B.S.(Agr.) 1921, University of Idaho		Education	Emmett
* Roberts, Harold Burr, A.B. 1925, Gooding College		Education	Gooding
† Rowe, Ross Thomas, B.S.(Agr.) 1915, Utah State Agricultural College		Education	Arco
† Rowell, Ruth Lois, B.S.(Ed.) 1929, University of Idaho		Psychology	Lewiston
Salisbury, Harold Albert, B.S.(Ed.) 1925, University of Idaho		Education	Twin Falls
† Sanders, Everett Claude, B.S.(Ed.) 1930, University of Idaho		Education	Rathdrum
† Schaplowsky, Andrew Benedict, B.S.(Ed.) 1924, University of Kansas		Education	Boise
* Schock, Benjamin Frank, A.B. 1911, Nebraska Wesleyan University		Education	Star
* Schock, Eldon Donald, A.B. 1915, Nebraska Wesleyan University		Education	Moscow
Selman, Alva Catherine, B.A. 1923, Grenada College		Education	Kingston

*Resident in Summer School 1931 and regular session 1931-32.

†Resident in Summer School 1931 and registered in absentia 1931-32.

NAME	PRESENT DEGREE	MAJOR DEPARTMENT	RESIDENCE
Shamberger, William David, B.S.(Mus.Ed.) 1931, University of Idaho			Payette
Shawen, Carroll Grant, B.S.(Ed.) 1930, University of Idaho	Education		Pomeroy, Wn.
Shepherd, Mary Ann, B.A. 1914, Amity College	Education		DeSmet
Shoun, Herbert Maine, B.A. 1922, Carson Newman College	Education		Jerome
†Skold, Clair Arthur, A.B. 1929, Colorado State Teachers College	Education		Fleming, Colo.
†Smith, Robert Wayne, B.A. 1924, University of Kansas	American History		Wallace
Smitham, Sylvia Theresa, B.S.(Ed.) 1924, University of Idaho	English		Pocatello
Specht, Edward John, B.S.(E.E.) 1923, University of Idaho	Education		Coeur d'Alene
Speck, Gordon Loren, B.S.(Ed.) 1927, University of Idaho	Education		Spokane, Wn.
Stevens, Alexander Chilson, B.A. 1923, College of the Pacific			Hilman, Cal.
Stivers, Vernon Theodore, B.S.(Ed.) 1925, University of Idaho	Education		Nampa
Stone, Daniel James, A.B. 1928, College of the Pacific			Los Gatos, Cal.
Storie, Helen Gwendolyn, A.B. 1926, Spokane University	English		Dayton, Wn.
Thomas, Florence Higbee, A.B. 1918, Whitman College	Philosophy		Nezperce
†Thomas, Frank Heinrich, B.S. 1919, University of Idaho	Education		Gooding
Thomas, Joseph Jefferson, B.S.(Ed.) 1926, University of Idaho	Education		Moscow
Thomas, Ormond J., B.S. 1930, University of Idaho	Education		Castelford
Thornber, Jessie Beatrice, B.S. 1906, South Dakota State College	Education		Moscow
Throckmorton, Marjorie, B.S.(Ed.) 1931, University of Idaho	Education		Moscow
*Tierney, William Michael, A.B. 1931, Washington State College	Education		Uniontown, Wn.
†Tomlin, James Edgar, A.B. 1923, Gooding College	Education		Twin Falls
Tulley, Cecil Roosevelt, B.S.(Agr.) 1929, University of Idaho	Dairy Husbandry		Emmett
†Wakem, Dale Judson, B.A. 1929, Linfield College	Education		Twin Falls
†Walsh, John Edward, B.A. 1922, College of Idaho	Education		Nampa
Walsh, Stephen Kelly, A.B. 1927, Colorado State Teachers College	Education		Casper, Wyo.
Waterman, Laura Adelle, B.A. 1922, University of Idaho	Psychology		Moscow
†Waters, Silas Arthur, B.S.(Ed.) 1929, University of Idaho	Education		Moscow
Werner, Violet Myrtle, B.S. 1931, University of Idaho	Botany		Moscow
Whitman, Eugene Winfield, M.S.(Agr.) 1929, University of Idaho			Pocatello
Williams, Lewis M., B.S.(Agr.) 1925, University of Idaho	Agricultural Education		Rexburg
Williams, Martha Graveley, A.B. 1920, Stanford University	Education		Boise
Williamson, Mary Elizabeth, B.S.(H.Ec.) 1926, University of Idaho	Home Economics		
Willmorth, Harold Fulton, B.A. 1926, College of Idaho	School Administration		Shoshone
†Wilson, Elmer Earl, A.B. 1922, Peru Teachers College	Education		St. Anthony
†Winn, Inez Lanelle, B.S.(Ed.) 1931, University of Idaho	Education		Buhl
Wiseman, Charles Leonard, B.S.(Agr.) 1931, University of Idaho	Agricultural Education		Hansen
Woods, Joseph Ross, B.S.(Bus.) 1927, University of Idaho	Education		Coeur d'Alene
Yaggy, Elinor May, B.A. 1929, University of Idaho	English		Rupert
*Yost, Ada Martha, B.A. 1926, University of Idaho	English		Blackfoot
TOTAL GRADUATES IN SUMMER SCHOOL			199

Undergraduate Students

Allen, Vera Irene	Moscow	Carpenter, Hubbell	Boise
Ames, James William	Boise	Chadbourne, Florence Elizabeth	Carlin Bay
Anderson, Pearle Lelah	Genesee	Chandler, Ellen Dorothy	Montour
Anderson, Raymond Albert	Princeton, Minn.	Chenoweth, Edith	Moscow
Armour, Jean	Moscow	Chenoweth, Mary Elizabeth Anne	Moscow
Armstrong, Williamina Elizabeth	Moscow	Christopher, Musetta Mary	Moscow
Aschenbrenner, Carl Edward	Bonnors Ferry	Clemons, Emmett Clair	Gooding
Axtell, Gertrude Mary	Moscow	Click, Leo Ennes	Reubens
Baird, Mary Mayenschein	Peck	Cobb, Lavilla Grace	Boise
Ball, Leona Nessly	Moscow	Coffin, Harold Walter	Spokane, Wn.
Bates, Adena Dorothea	Cocclalla	Collins, Kathryn Janet	Moscow
Bliler, Ruby Bohart	Bozeman, Mont.	Craney, Nell	Potlatch
Booker, Frederick John	Potlatch	Craven, Dorothy	Boise
Boyd, Sue Florietta	Kellogg	Crawford, Doris Maybelle	Lewiston
Brigham, Laura Nellie	Genesee	Croft, Charles Wesley	Moscow
Brigham, Maybelle Jones	Moscow	Crombie, Richard Joseph	Spokane, Wn.
Briscoe, Dewey	Burley	Cross, Charles Crego	Spokane, Wn.
Brosnan, John	Moscow	Cruikshank, Helen DuBois	Moscow
Brosnan, Mary Helen	Moscow	Cuddy, Katherine Louise	Boise
Bulfinch, Kate Gardner	Fairfield	Curtiss, Virginia Ellen	New Plymouth
Burke, Joseph William	Moscow	Davis, Clare Ransom	Moscow
Bush, Mary Louise	Moscow	Dawald, Clyde	Lewiston
Calkins, Wesley Emil	Moscow	Dean, Mary Alice Sherman	Hayden Lake
Campbell, Della	Moore	Dewey, Dorothy Irene	Moscow

*Resident in Summer School 1931 and regular session 1931-32.

†Resident in Summer School 1931 and registered in absentia 1931-32.

DeWinter, Gertrude Margeurite.....	Moscow	King, Loren Thomas.....	Wallace
DeWinter, Lillian Eberdene.....	Moscow	King, Ruby Carol.....	Moscow
Donaldson, Jean Chalmers.....	Moscow	Knowlton, Berenice Augusta.....	Fairfield
Drummond, Robert.....	Kellogg	Kurdy, Helen Marjorie.....	Winona
Drury, Miriam Leyrer.....	Moscow	Lawrence, Pauline Elizabeth.....	Cottonwood
Drury, Neva Ann.....	Moscow	Lee, Alice.....	Moscow
Eddy, John Courtney.....	Rupert	Lee, Marie Margaret.....	Moscow
Eisinger, Elsa Suzanna.....	Moscow	Leistner, Lillie M.....	Palouse, Wn.
English, Lena Criswell.....	Geraldine, Mont.	Lindsley, Samuel Ervin.....	Cottonwood
Equals, Donald Robert.....	Payette	Long, Elbert Monroe.....	Kendrick
Farrelly, Bertram Charles.....	Gem	Lowe, Caroline.....	Blackfoot
Fattu, John.....	Kellogg	Luke, Irene.....	Moscow
Fifield, Charles Edward.....	Lumsden, Sask., Canada	Lundin, Willara Merrill.....	Twin Falls
Florell, Edna Mae.....	Moscow	Lundquist, Armand Hilmer.....	Moscow
Fontanilla, Angel Eugenio.....	Laoag, P.I.	Lyons, Ruth E.....	Idaho Falls
Forbis, Vera Ruth.....	Lebanon, Ore.	McComb, Jane Marian.....	Troy
Ford, Eleanor.....	Weiser	McDonald, Ruth Jeanette.....	Lewiston
Foreman, Ava Ithene.....	Kamiah	McKeirnan, Agnes Cletus.....	Pomeroy, Wn.
Fowler, William Sherman.....	Wendell	McKenna, Martin James.....	Spokane, Wn.
Fricke, Albert William.....	Rupert	McKinnis, Judith Lenore.....	Wallowa, Ore.
Gale, Fulton Gilbert.....	Moscow	McMonigle, Frances Catherine.....	Boise
Gamble, Martha Elizabeth.....	Moscow	McWilliams, Walter Charles.....	Moscow
Gamble, Grayce Ann.....	Moscow	Mahn, Karam Singh.....	Udhowal, Punjab, India
Garnett, Maude Estelle.....	Enid, Okla.	Megenity, Lena Marie.....	Craigmont
Gleason, Gladys Elizabeth.....	Jerome	Mellinger, Ardith Reed.....	Moscow
Goodliffe, Edna B.....	Rexburg	Merwin, Evelyn Steven.....	Moscow
Goodliffe, Francis J.....	Rexburg	Metzgar, Edward Harry.....	Kellogg
Green, Dorothy Naomi.....	Troy	Miller, Paul Theodore.....	Moscow
Green, Grace Muriel.....	Troy	Mitchell, Jack Edwin.....	Moscow
Greene, Robert Fulton.....	Culdesac	Mitchell, Ruth Adelaide.....	Boise
Hadley, Pearl Snyder.....	Moscow	Mix, Leslie Boice.....	Moscow
Hall, Oliver William.....	Moscow	Modie, Donald Leandor.....	Kellogg
Halliday, Catherine Archibald.....	Moscow	Mossman, Lucile.....	Nampa
Harris, Joan Marion.....	Payette	Moulton, Margaret Ruth.....	Kennewick, Wn.
Harrison, Bert A.....	Coeur d'Alene	Mullikin, Clifford James.....	Troy
Hart, Dorothy.....	Moscow	Murray, Allie Beatrice.....	Nampa
Hawk, Milan Elven.....	Shelley	Neely, Anna McHenry.....	Moscow
Hawkins, Henrietta Jane.....	Lewiston	Netzel, Harold Edward.....	Lewiston
Headrick, Garland Shirley.....	Moscow	Nilson, Oscar N.....	Moscow
Hinkly, Francis Ray.....	Orofino	Normington, Bula Bechtel.....	Moscow
Hordemann, Dorothy Ann.....	Moscow	O'Connor, Clement James.....	Moscow
Hudson, Earl C.....	Castleford	O'Dell, Myrtle.....	Moscow
Humphreys, Ruth Wilson.....	Moscow	O'Hara, Alice Katherine.....	Moscow
Hunt, Donnell Hodge.....	Moscow	Olmstead, Bessie Pauline.....	Plummer
Hunt, Thomas Albert.....	Moscow	Olson, Kermit Ferdinand.....	Nezperce
Irwin, Gladys Dale.....	New Meadows	Olson, Matilda Bertina.....	Bovill
Isenberg, Edward Hoyt.....	Troy	Otter, Joyce Harriet.....	Moscow
Ison, John Melvin.....	Blackfoot	Parmer, Karam Singh.....	Baddon, Punjab, India
Ison, Leta Wells.....	Blackfoot	Paterka, Pauline Harriet.....	Spokane, Wn.
Jackson, Gladys Pitt.....	Moscow	Pechanec, Joseph Frank.....	Nampa
Janssen, Dorothy Mae.....	Huston	Perrine, Eugene.....	Twin Falls
Jensen, Joy Schnebly.....	Moscow	Peterson, Ernest Dean.....	Moscow
Johnson, Jerome.....	Moscow	Peterson, Ellen.....	Moscow
Johnson, Olga Mary.....	Payette	Pontius, Rex Burns.....	Lewiston
Johnson, Sylvia.....	Genesee	Porterfield, Lois Marie.....	St. Maries
Johnson, Virginia.....	Moscow	Pratt, Louise Millman.....	Weippe
Johnston, Paul Emigh.....	Kuna	Ramstedt, Agnes Matilda.....	Moscow
Johnston, Ruth Vivienne.....	Moscow	Ratcliffe, Charles Leonard.....	Twin Falls
Jones, George Andrew.....	Peck	Reardon, Catherine Anne.....	Moscow
Jones, Lewis Paul.....	Twin Falls	Redford, John Edgar.....	Rupert
Justice, George Edwards.....	Lewiston	Redford, Keith Deal.....	Glenns Ferry
Kehrer, Ruth Eileen.....	Boise	Redford, Viola.....	Rupert
Keller, Duane Dudley.....	Mink Creek	Reed, Alice Margaret.....	Clarkston, Wn.
Keller, Leslie Floyd.....	Mink Creek	Reeder, Helen Mary.....	Moscow
Kelley, Ray Hansen.....	Rexburg	Reid, Norine Cecelia.....	Bonnors Ferry
Kellom, Ralph Waldo.....	Bovill	Richardson, Dorothy Miranda.....	Moscow
Kelly, Artie Ellen.....	Pullman, Wn.	Robel, Dorothy Amelia.....	Lewiston
Kennard, Kathryn Isabel.....	Moscow	Ross, David Theodore.....	Deary
Kennard, Miriam.....	Moscow	Ross, Ethelinda Sadena.....	Deary
Kennard, Patricia Ann.....	Moscow	Schnell, Katharyn Frances.....	Boise
Kildea, York Alphonsus.....	Coeur d'Alene	Scott, Margaret Mary.....	New Plymouth
Kimball, Stuart Fairchild.....	Orofino		

LIST OF STUDENTS

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Shaw, Alfred O.....	Moscow	Thompson, Lois Marian.....	Post Falls
Shawen, Martha Mahala.....	Pomeroy, Wn.	Tierney, John Jacob.....	Uniontown, Wn.
Shawen, Ralph Arthur.....	Pomeroy, Wn.	Tierney, Mabel Catherine.....	Uniontown, Wn.
Shea, Doris Naoma.....	Moscow	Timken, Gladys Ione.....	Kellogg
Shira, Ruth Elizabeth.....	Grangeville	Tomlin, Betty Lee.....	Lewiston
Siapoosh, Abbas Lattar.....	Tabriz, Persia	Trenary, Irene Simon.....	Kooskia
Simpson, Florence.....	Moscow	Von Bargaen, George Lester.....	Fenn
Skold, Beatrice Wood.....	Fleming, Colo.	Voris, Nina.....	Caldwell
Smith, Bernice Winters.....	Moscow	Walter, Jenny Wren.....	Filer
Smith, Harold.....	Moscow	Walton, Charles W.....	Moscow
Smith, Judson.....	Moscow	Walton, Dorothy S.....	Moscow
Smith, Norman Meyer.....	St. Maries	Walton, Jack.....	Moscow
Smith, Ronald Martin.....	Moscow	Walton, Lucille Slater.....	Moscow
Sogard, Vernon Reginald.....	Culdesac	Walton, Richard S.....	Moscow
Solberg, Nora Alene.....	Kamiah	Warner, Frank Amel.....	Boise
Spaagy, Arthur Earl.....	Nampa	Warren, Grace Margaret.....	Boise
Specht, Velma White.....	Coeur d'Alene	Watkins, Helen Dorothy.....	Moscow
Spence, Ethel Woody.....	Moscow	West, Dessie Estelle.....	Wendell
Steele, Julia.....	Coeur d'Alene	Wheeler, Leona.....	Potlatch
Stedler, Helen Ruth.....	Payette	Whitesides, Vance W.....	Burley
Stevens, Loretta.....	Woods Cross, Utah	Williams, Elizabeth Steward.....	Moscow
Stewart, Forrest Virgil.....	Emmett	Wilkie, Richard Francis, Jr.....	Firth
Sullivan, Grover Cleveland.....	Carey	Wilson, Hugh Edward.....	Castleford
Suppiger, Eleanor Ballard.....	Moscow	Wilson, Mildred Williams.....	St. Anthony
Swanson, Theodore William Erhard.....	Moscow	Wormell, Margaret Eva.....	Craigmont
Tedford, Jean Marie.....	Priest River	UNDERGRADUATES AND SPECIAL STUDENTS	
Theriault, Helen Catherine.....	St. Maries	IN SUMMER SCHOOL.....	
Thomas, Georgia Emma.....	Moscow	GRADUATES IN SUMMER SCHOOL.....	
Thomas, LaVernon Grace.....	Kellogg	TOTAL IN SUMMER SCHOOL.....	
Thomas, Margaret Jean.....	Ashton		
Thompson, Elizabeth Ann.....	Moscow		

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

SUMMARY

STATES OTHER THAN IDAHO

	College	Non-Resident	Special Courses	Summer School	Students in Absentia
Idaho	1626	278	36	394	89
States other than Idaho	223	53	2	47	9
Territories and Foreign Countries	29	1	...	5	...
Total	1948	332	38	446	98

COUNTIES IN IDAHO

	College	Non-Resident	Special Courses	Summer School	Students in Absentia
Ada	157	16	...	20	9
Adams	3	2	...	3	...
Bannock	36	24	...	4	3
Bear Lake	5	...	...	...	...
Benewah	27	5	1	8	1
Bingham	18	5	...	9	2
Blaine	12	2	...	2	1
Boise	7	1	...	...	...
Bonner	40	8	...	3	1
Bonneville	32	2	1	3	1
Boundary	18	1	...	3	...
Butte	7	1	...	3	2
Camas .....	...	1	...	2	...
Canyon	62	22	2	15	15
Caribou	2	1	...	...	...
Cassia	29	4	...	6	4
Clark	2	1	...	...	...
Clearwater	26	6	2	5	2
Custer	5	2	...	1	1
Elmore	15	2	...	3	2
Franklin	11	2	...	3	2
Fremont	21	5	...	5	4
Gem	24	2	...	7	...
Gooding	17	11	...	11	3
Idaho	34	7	...	12	5
Jefferson	18	5	...	...	1
Jerome	11	7	...	4	...
Kootenai	115	15	...	12	2
Latah	426	33	29	152	5
Lemhi	6	2	...	...	...
Lewis	31	5	...	9	1
Lincoln	7	1	...	1	...
Madison	2	2	...	5	1
Minidoka	27	5	...	10	1
Nezperce	78	25	...	24	5
Oneida	11	2	...	1	1
Owyhee	1	2	...	...	...
Payette	35	3	...	10	1
Power	2	3	...	...	...
Shoshone	102	4	...	17	6
Teton	2	...	...	...	...
Twin Falls	97	23	1	20	7
Valley	13	4	...	...	...
Washington	32	2	...	1	...
Total	1626	278	36	394	89

	College	Non-Resident	Special Courses	Summer School	Students in Absentia
Arizona .....	...	1	...	...	...
Arkansas	1	...	...	...	...
California	29	6	1	...	...
Colorado	3	2	...	2	1
Connecticut	2	2	...	...	...
Delaware	2	...	...	...	...
Florida	1	...	...	...	...
Illinois	7	1	...	...	...
Iowa	10	...	...	...	1
Massachusetts	3	1	...	...	...
Michigan	2	...	...	...	...
Minnesota	5	...	...	1	...
Missouri	3	1	...	...	...
Montana	17	...	...	4	1
Nebraska	3	2	...	1	...
New Jersey	1	...	...	...	...
New Mexico	1	...	...	...	...
New York	8	1	...	...	...
North Dakota	2	...	...	...	...
Ohio	4	...	...	...	...
Oklahoma	1	...	...	1	...
Oregon	21	3	...	5	...
Pennsylvania	2	...	...	...	...
South Dakota .....	...	...	...	2	...
Tennessee	2	...	...	...	...
Texas .....	...	1	...	...	...
Utah	1	...	...	1	...
Virginia	1	...	...	...	...
Washington	156	31	1	24	6
Wisconsin	2	1	...	...	...
Wyoming	3	...	...	1	...
Total	293	53	2	47	9

TERRITORIES AND FOREIGN COUNTRIES

	College	Non-Resident	Special Courses	Summer School	Students in Absentia
Alaska .....	...	1	...	1	...
Canada	8	...	...	1	...
China	1	...	...	...	...
India	3	...	...	1	...
Persia	6	...	...	1	...
Philippine Islands	11	...	...	1	...
Total	29	1	...	5	...

CONSOLIDATED ENROLMENT TABLE, YEAR 1931 TO FEBRUARY, 29, 1932

COLLEGE, COURSE, OR CURRICULUM	Graduates			Seniors			Juniors			Sophomores			Freshmen			Unclassed			Total by Curricula			Total by Colleges		
COLLEGE	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
COLLEGE OF LETTERS AND SCIENCE.....	27	26	53	53	51	104	36	61	97	11	7	18					4	4				127	149	276
Arts	9	18	27	21	31	52	14	33	47	5	4	9					3	3			49	89	138	
Science	18	8	26	13	2	15	10	5	15	3	1	4									44	16	60	
Pre-Medical Studies				17		17	11		11	2		2									30		30	
Home Economics					17	17		20	20		1	1										38	38	
Music (B.M.)					1	1		2	2								1	1				4	4	
Architecture				2		2	1		1	1		1									4		4	
Pre-Nursing								1	1			1									2		2	
COLLEGE OF AGRICULTURE.....	20		20	35		35	39		39	30		30	50		50							174		174
COLLEGE OF ENGINEERING.....	4		4	40		40	47		47	51		51	88		88	1		1			231		231	
Civil Engineering	2		2	14		14	10		10	8		8	15		15						49		49	
Electrical Engineering	1		1	14		14	21		21	22		22	29		29	1		1			88		88	
Mechanical Engineering				8		8	8		8	13		13	31		31						60		60	
Chemical Engineering	1		1	4		4	8		8	8		8	13		13						34		34	
COLLEGES OF AGR. AND ENGR.....	3		3				2		2	1		1	3		3							9		9
Agricultural Engineering	3		3				2		2	1		1	3		3						9		9	
COLLEGE OF LAW	1		1	10		10	12		12	11		11				4	1	5				38	1	39
SCHOOL OF MINES	7		7	7		7	16		16	21		21	27		27						78		78	
Mining Engineering				5		5	7		7	10		10	15		15						37		37	
Geology	4		4	2		2	7		7	6		6	7		7						26		26	
Metallurgy	3		3				2		2	5		5	5		5						15		15	
SCHOOL OF FORESTRY	8		8	15		15	16		16	28		28	54		54									
SCHOOL OF EDUCATION	27	16	43	30	45	75	46	52	98	39	50	89	43	64	107	1		1			181	213	394	
Education	27	16	43	29	40	69	44	51	95	38	48	86	42	58	100	1		1			5	14	19	
Music Education				1	5	6	2	1	3	1	2	3	1	6	7									
SCHOOL OF BUSINESS ADMINISTRATION	3		3	45	9	54	37	12	49	5	2	7	1								91	23	114	
JUNIOR COLLEGE							8	3	11	87	92	179	189	120	309	2		2			286	215	501	
Arts							6	1	7	14	40	54	38	37	75	1		1			59	78	137	
Science										4	6	10	10	2	12						14	8	22	
Pre-Medical Studies										10	2	12	21	3	24						31	5	36	
Home Economics							2	2		23	23		34	34								59	59	
Music (B.M.)											1	1	2		2						2	1	3	
Architecture							1		1	4	1	5	7		7						12	1	13	
Pre-Nursing										2	2			1	1							3	3	
Pre-Law							1		1	7	1	8	24	2	26						32	3	35	
Business										46	16	62	81	35	116						127	51	178	
Not Designated										2		2	6	6	12	1		1			9	6	15	
TOTAL IN REGULAR CURRICULA.....	100	42	142	235	105	340	259	128	387	284	151	435	455	184	639	8	5	13				1341	615	1956*
SPECIAL COURSES.....																						23	15	38
Music																					6	15	21	
Motor Mechanics																					8		8	
Commercial Dairying																					9		9	
Non-Resident (College Credit).....																								
SUMMER SCHOOL	125	74	199				men, 88;	women, 136;	Tot. 224	Special Music	9	14	23								222	224	446	
STUDENTS IN ABSENTIA	66	20	86							Special.....	7	5	12								73	25	98	
GRAND TOTAL																								
Deduct for names entered more than once																								
NET TOTAL																								

*Deduct seven men and one woman for midyear graduates taking graduate work.

CONSOLIDATED ENROLMENT TABLE. UNIVERSITY OF IDAHO, SOUTHERN BRANCH—1931-32

DIVISIONS, COURSES, OR CURRICULA	3rd Year			Sophomore			Freshman			Unclassed			Total by Curricula			Total by Division		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
February 27, 1932																		
DIVISION OF LETTERS AND SCIENCE																277	292	569
Junior College	8	8	16	63	69	132	95	107	202	8	12	20	174	196	370			
Music					1	1		1	1	1	1	2	1	3	4			
Agriculture				9		9	17		17	1		1	27		27			
Forestry				6		6	30		30				36		36			
Education	1	1	2	14	42	56	24	47	71		3	3	39	93	132			
Vocational																		
Accounting																		
Merchandising																		
Secretarial																		
DIVISION OF ENGINEERING																122		122
Civil Engineering				6		6	21		21	1		1	28		28			
Electrical Engineering	1		1	22		22	28		28				51		51			
Mechanical Engineering				7		7	7		7				14		14			
Chemical Engineering	1		1	11		11	6		6				18		18			
Mining Engineering	1		1	6		6	4		4				11		11			
Agricultural Engineering																		
DIVISION OF PHARMACY	16	4	20	16	2	18	21	3	24	4th Year 8 2 10 Spec. & Adv. 1 1 1						63	11	74
TOTAL IN REGULAR CURRICULA																462	303	765
SPECIAL COURSES																66	22	88
Auto Mechanics										29		29	29		29			
Special Music										37	22	59	37	22	59			
GRAND TOTAL																528	325	853
Deduct for students entered more than once																5		5
NET TOTAL																523	325	848

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