Summer 1952

General Catalog 1952, Summer

Utah State University

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Utah State Agricultural College

ANNOUNCES FOR 1952

A National Summer School

FIRST SESSION
June 10 to July 18

SECOND SESSION
July 21 to Aug. 22

Utah State Agricultural College Bulletin
Vol. 52            March, 1952            No. 3
The Art Workshop, under the direction of the State Curriculum Committee on Art Education, will be continued in the summer of 1952.

Below is a scene from "The Wingless Victory," a recent Summer Theatre workshop production directed by Dr. Harold I. Hansen.
SUMMER SCHOOL
ANNOUNCEMENT FOR 1952

JUNE 10 — August 22

FIRST SESSION
June 10 — July 18

SECOND SESSION
July 21 — August 22

Please Bring This Bulletin With You
When You Come to Register
A Message from the President of the College

It was back in 1924 that the expression "A National Summer School" was first used to describe the summer offering at Utah State Agricultural College. Distinguished educators from all parts of the United States were invited to supplement the resident staff in what turned out to be a brilliant Summer School.

Since that time every effort has been made to maintain this great tradition. This year will be no exception. The resident faculty in the many departments of the seven schools have planned their course offerings with the particular needs of summer students in mind. Guest professors and lecturers have been chosen to fill vital areas where most needed.

Basic courses in R.O.T.C. Air Force, as well as other courses for freshman students, are again available. Upper division and graduate courses for students working toward advanced degrees have been carefully planned. The work in international education, particularly that related to the Point-4 program, will be continued because the College is being called upon to render ever-increasing service in this important field.

The needs of teachers getting their schooling under provisions of the G.I. legislation have been carefully considered. Either of the two sessions will qualify to keep the teacher's educational entitlement in force. The enriched graduate program in Education and related fields contains many opportunities for such teachers. Major professors in all departments will be on hand to guide thesis work.

The need for an intelligent, well educated citizenry was never more important than now. We hope that students, teachers, and the public generally will cooperate in helping us to make the 1952 Summer School contribute most effectively toward these worthy goals.

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TEACHER PLACEMENT — Carlisle, Richardson, Cawley, Mortimer.

PERSONNEL AND GUIDANCE—Egbert, Symons, Daniel, Bell, Stone, Burns, C. J. Skidmore, Lewis.

Summer School Fees for 1952

<table>
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<tr>
<th>Description</th>
<th>Fee</th>
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<tr>
<td>Registration for Summer Quarter</td>
<td>$15.00</td>
</tr>
<tr>
<td>Tuition for Summer Quarter</td>
<td>20.00</td>
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<tr>
<td>Registration for either session</td>
<td>10.00</td>
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<tr>
<td>Tuition for either session</td>
<td>10.00</td>
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<tr>
<td>Materials and Laboratory Fee Summer Quarter</td>
<td>3.00</td>
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<tr>
<td>Either session</td>
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<tr>
<td>Student Body Activity Fee</td>
<td>3.00</td>
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<tr>
<td>Student Body Activity Fee—Second Session only</td>
<td>1.50</td>
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<tr>
<td>Registration for three credits or less</td>
<td>10.00</td>
</tr>
<tr>
<td>Registration for five credits or less</td>
<td>15.00</td>
</tr>
</tbody>
</table>
SUMMER SESSION

Coaching School fee .................................................. 10.00
   Students who pay the regular $35 or $20 may attend the Coaching School without additional charge.
Drivers Training Institute ........................................... 10.00
Piano Teachers Conference .......................................... 10.00
Auditor's fee (per course) ........................................... 3.00
   (Does not apply to regularly registered students who may secure visitor's permits from Registrar's Office.)
P.E. 176—Camping Trip Packing and Equipment Rental ............ 16.00
   Transportation ...................................................... 7.00
Aeronautics—37, 137, 138, 139—$10.00 per clock hour for dual instruction and $8.00 per clock hour for solo instruction.
Registration and Tuition ............................................ 35.00
Laboratory fee .......................................................... 25.00
   (Board provided on cost basis)
Forestry 96, 97; Range 98; Wildlife 99: $5.00 lab fee in each course.
Music Clinic (non-credit) .......................................... 7.50
Physical Education 73 (golf) fee ................................... 3.00
Diploma Fee ............................................................. 5.00
Social Work Certificate .............................................. 5.00
Master's Degree Fee for binding and proofing Thesis .......... 5.00
Special Examination—per credit hour ................................ 2.00
Cap and Gown Rental:
   Bachelor of Science .............................................. 2.25
   Master of Science .................................................. 5.00

PRIVATE INSTRUCTORS IN MUSIC FOR SUMMER SESSIONS

Mrs. Wallace Odd ..................................................... $12.00 $10.00
N. W. Christiansen ................................................... 21.00 17.50
Mrs. N. W. Christiansen ............................................ 18.00 15.00
S. E. Clark ............................................................. 18.00 15.00
Mrs. Maxine Greenwood ............................................. 15.00 12.50
Thelma Lundquist ..................................................... 12.00 10.00
George Pahitz .......................................................... 18.00 15.00
Micha Poznanski ....................................................... 18.00 15.00
Mrs. G. W. Thatcher .................................................. 21.00 17.50
Patience Thatcher ..................................................... 18.00 15.00
Eldon Tobensen ........................................................ 18.00 15.00
Mrs. Walter Welti ...................................................... 18.00 15.00
Walter Welti ............................................................ 21.00 17.50
Irving Wasserman ..................................................... 18.00 15.00
John Phillip Dalby .................................................... 18.00 15.00

PRIVATE INSTRUCTORS IN SPEECH

Harold Hansen ......................................................... $17.50 per credit hour either session
Chester J. Myers ..................................................... 17.50 per credit hour either session
Rex E. Robinson ....................................................... 17.50 per credit hour either session
Gwendella Thornley ................................................... 17.50 per credit hour either session

Each session consists of 10 lessons per credit hour.
Utah State Agricultural College

Utah State Agricultural College was established in 1888 under the provisions of the Land-Grant College Act. It serves the people of Utah and the intermountain west through three main divisions: (1) the instructional service of the college, (2) the Agricultural Experiment Station, and (3) the Cooperative Extension Service. The instructional services are organized in seven schools: Agriculture; Arts and Sciences; Commerce; Education; Engineering and Technology; Forest, Range, and Wildlife Management; and Home Economics. The Graduate School and the Summer School are also organized to render special services. Through all these schools, it is the policy of the college to make available to students opportunities for a broad program of collegiate education, including vocational, technical, scientific and so-called liberal education. The object is to foster all that makes the right living, good citizenship, vocational efficiency, and general culture. Fundamentally, the college has always considered the main function of education in its broadest sense to be the preservation and improvement of the democratic way of life.

All departments offer curricula leading to the B.S. degree; many offer the M.S.; and some the Ph.D. Detailed requirements for these requirements are listed in the general catalog.

The college is located one mile east of the center of Logan on the brow of a hill overlooking Cache Valley. One mile still further to the east is the entrance to scenic Logan Canyon through which Highway 89 leads on to Bear Lake and points east, or north through Wyoming to the south entrance of Yellowstone Park.

With its population of sixteen thousand, Logan serves as a delightful center of student life. The climate in the summer time seldom becomes oppressively warm, while the evening canyon breeze makes summer nights especially comfortable. Student enrollment at the college during the regular academic year has in recent years exceeded five thousand. Enrollment in the Summer School ranges from fifteen hundred to two thousand.

The Summer School

Summer quarters have achieved a significant place in American collegiate institutions, partly because they are organized to meet the needs of many different groups of people. There are always some students who carry on with their regular scholarship program; there are the elementary and secondary teachers meeting certification requirements or proceeding toward advanced degrees as they continue in their regular teaching positions, and finally there are many special groups who spend a week or two weeks or longer in short courses specifically adapted to their professions or avocations.

The Utah State Agricultural College Summer School is organized to meet these diverse needs. For many years it has been a significant part of the institution. Since 1924 the program has been expanded to include visiting professors from different parts of the nation who supplement the regular faculty in various departments in giving advanced courses, conducting institutes, or giving one or more special lectures. Lyceum numbers in music and drama are also a significant part of the summer program.

A full quarter of study is available this summer, divided into two sessions, the first of six weeks from June 10 to July 12, and the second
SUMMER SESSION

from July 21 to August 22. Some courses in the first session are arranged to terminate in three weeks, thus making it possible for individuals to complete an intensive program for college credit if they cannot be on the campus for a longer period.

In general, the 1952 summer offering has been planned to meet the needs of the groups indicated above. First, many regular students of undergraduate standing will wish to use the summer quarter to complete requirements earlier than otherwise possible. Similarly, many high school graduates may want to enroll in college this summer in order to get their advanced schooling started without delay. Most departments are offering freshman courses to meet these needs, as well as more advanced courses meeting graduation requirements. Second, teachers planning to renew certificates or meet certification requirements for Utah and surrounding states will find that specific courses have been listed to meet their needs. Course needs for other special groups have also been kept in mind, and suitable offerings made available. A third group which the Summer School seeks to serve directly is the large number of graduate students who find it advantageous to pursue their school work in the summer time. A detailed description of the policies of the graduate school is included later in this bulletin.

The list of short courses, workshops, and institutes is especially impressive this year. Each is described in some detail in a later section of this catalog.

REGISTRATION

The student load during the Summer Quarter is determined by the deans of the various schools. A maximum of nine credits may be taken in the first session, and eight the second. Students are reminded that this number cannot be exceeded without the special approval of the dean of the school concerned. Nor will completion of correspondence study or extension class work paralleling Summer School be permitted if the combined total of credits exceeds the above figures unless special approval has been granted.

Students who desire to register for credit in research problems or field studies should make the necessary arrangements with the Registrar's Office at the beginning of the session in which the work is done. Credits allowed and fees charged for this type of study will depend on the time spent and the work accomplished.

Registration for the Summer Quarter will take place Tuesday, June 10 in the Main Reading Room of the Library, beginning at 8 a.m. and continuing to 3 p.m. Classes will begin Wednesday morning, June 11. Students who fail to complete registration on Tuesday may do so any succeeding afternoon from 1 to 4 p.m. in the Summer School office (M276). The first step in registration is to call at the Registrar's Office to obtain registration forms and instructions. Students will find it to their advantage to send in the registration request form on the last page of this bulletin before registration day. Although this is not necessary it will insure that all previous records as well as registration forms will be ready for them on June 10.

The student's attention is called to the fact that regular classes will be held on Saturday, June 14, to make up for the day missed on Monday of this week.

There will be no special registration period for the second session. New students or students making changes or additions can complete the registration process any time during the first week of the second session. Regularly scheduled second session classes will begin Monday, July 21, and continue five weeks, to August 22. The same rules as
apply in the first session limit the amount of credit a student may take. Any regular college course which is not definitely scheduled for the second session in the catalog or the schedule bulletin will be given in that period if ten students petition the Summer Quarter Dean and join the class. Credit in the second session is computed on the basis of one hour of credit for 10 one-hour lecture periods or 10 three-hour laboratory periods. Registration forms for any session period will not be accepted after the period has ended.

Scheduled classes, whether first or second session, may not be given if fewer than eight students register. If it is possible to do so, any course listed in the general catalogue will be given if eight or more students request it. Requests should be directed to the head of the department concerned.

All graduate students must register with the Dean of the Graduate School, Dr. J. Stewart Williams, who will be in the Main Reading Room of the library on Tuesday, June 10; thereafter, at his office in the Main building.

CLASS SCHEDULE

It is anticipated that all classes will meet at the time and place listed in this catalog. If changes are necessary, a corrected schedule will be available on registration day, June 10. Some classes will begin at 7 a.m. throughout the Summer Quarter. Four periods are scheduled during the morning hours: 7, 8, 9, and 10. Bells ring on the hour and classes begin immediately and continue for fifty minutes to 7:50, 8:50, 9:50, etc. The 11 a.m. hour is kept open as a lecture period during the first session and no classes are scheduled at that hour. Afternoon classes begin at 1 p.m. and continue on the hour until 5 p.m. During the second session meeting hours of classes not listed in the schedule bulletin may be arranged by agreement with students and teachers.

SPECIAL CONFERENCES, INSTITUTES, SHORT COURSES, AND WORKSHOPS

Coaching School—June 2-6

The twenty-sixth annual Coaching School at Utah State Agricultural College will feature Clarence "Biggey" Munn, head football coach of Michigan State College; and Branch McCracken, head basketball coach of Indiana. Discussion groups, demonstrations, and regular class work will be held for five consecutive days, June 2 through June 6. Individuals may enroll for either football or basketball or both.

If possible, reservations for enrollment in the Coaching School should be sent in before the opening date, June 2. Registration in the School carries 1 1/2 credits for the week. Free playing privileges at the Logan Golf and Country Club are extended to those who are enrolled.

Art Education Workshop—June 10-27

Through the cooperation of the State Department of Public Instruction, an art education workshop for teachers is again being held on the campus through the first three weeks of the summer session, June 10 to June 27. Four members of the State Curriculum Committee in Art are listed as special instructors for this course, although other members of the committee will cooperate. The workshop is planned for the regular classroom teacher. It is anticipated that theory and background
material will be discussed but the major emphasis will be upon learn­ing how to do what is called for in providing good art experiences for the child. Five credits may be earned by participating in the workshop and it is anticipated that this will take the full time of the teachers for the first three weeks. Students who enrolled in the workshop last year may do so again for more advanced work. New students, of course, may also enroll.

Drivers Training Teachers Workshop—June 2-6

Through the cooperation of the American Automobile Association, Dr. Amos E. Neyhart, administrative head, Institute of Public Safety of the Pennsylvania State College, will again conduct a Drivers Training Workshop for a week on the campus of the Utah State Agricultural College. This particular workshop is designed for advanced instructors who plan to train teachers in the field. Courses will also be conducted for high school teachers of Driver training.

Girls' State—June 8-14

This annual conference is under the direction of the state organ­ization of the American Legion Auxiliary. It will be held on the campus during the week of June 8. Faculty members will cooperate by giving lectures and conducting course work.

Conference for Business Teachers—June 16-20

Professor T. James Crawford, faculty member from the School of Business, University of Pittsburgh, and co-author of 20th Century Type­writing, will conduct a conference for Business Teachers during the week ending June 20.

In addition to his work at Pittsburgh, Professor Crawford has taught at Indiana University and the University of North Carolina. His appearance in Utah this summer will provide High School and College Teachers with an unusual opportunity to obtain help from an out­standing leader in Business Education.

The 1952 Health Education Conference—June 11-14

Again the Summer School presents one of America's outstanding health educators, Delbert Oberteuffer, Professor of Physical Educa­tion, Ohio State University, editor of the Harper & Brothers' series in School and Public Health Education, Physical Education, and Recrea­tion, and author of School Health Education. Dr. Oberteuffer was a visitor to the 1951 meetings of the Utah Education Association where he was enthusiastically received by Utah educators.

He will be supported in this conference by specialists from the Utah Department of Public Instruction, the Utah Department of Health, School of Medicine of the University of Utah, The National Tuberculosis Association, and other education leaders in administration, health, and physical education.

The tentative plan calls for three series of meetings, (1) How to improve Health Education in Utah, (2) How to improve the Health Aspects of the Physical Education program in Utah, and (3) Areas of Recent Advance in Health Knowledge and Health Programming. Two credits, upper division, may be earned for participation in the conference and the completion of additional study. (See Public Health 158.)
Conference on Civilian Defense—June 16-20

Through the cooperation of the Utah State Organization for Civilian Defense and the Utah State Department of Public Instruction a special conference dealing with the obligation and opportunity of the public schools for civilian defense will be held June 16 through 20. Public announcements will be made of the detailed program. Delegates from school systems throughout Utah will take part and similar delegates from school systems outside the State are invited to attend. The general public and interested Summer School students are also invited to take part in the sessions of the conference.

Book Review Conference—June 19-20

This conference is designed particularly for librarians, teachers of English, and "book review" club members who wish to participate in a series of discussions dealing with literature suitable for group programs. Though major emphasis will be placed upon current publications, it is anticipated that the total field of literature will be given some consideration.

School Lunch Program—June 23-27

The seventh annual school lunch-room course will be conducted for the supervisors and managers of the School Lunchrooms in Utah. Daily class schedules and group meetings to be announced.

Miss Helen Crane, Supervisor, Foods Service Section, Student Body Services Branch, Los Angeles City Schools, will be the special consultant. She will be assisted by leaders from the Utah State Department of Public Instruction.

Utah State Theatre Workshop—June 10-July 18

Utah State's Theatre Workshop is now in its fourth year. Plays that have been produced in the past summers are: "The Miser," Moliere; "Antigone," Anouilh; "The Importance of Being Earnest," Wilde; "Thunder Rock," Ardrey; and "The Wingless Victory," Maxwell Anderson.

The actors and production crews are members of the class in Practical Theatre, Speech and Drama 66 and 166, and other interested students. Anyone connected with the College is invited and encouraged to participate. The plays are presented before college and local audiences in a well-equipped plant. An attempt is made to produce drama as near the professional level as possible.

Plans for this summer include three different productions, indicating a well-balanced program. Two of these are "Death of a Salesman," Arthur Miller, and "Cyrano de Bergerac," Rostand.

High school students as well as college students are invited to participate. Those who do may elect whether they will receive college credit or not. This summer offering will be valuable to the teacher, the drama director in community or church organizations, the recreational director as well as Speech and Drama majors and minors.

Language Arts Conference—June 23-27

An intensive conference for elementary teachers and teachers of English in the junior and senior high school will be conducted for one week. Dr. Matilda Bailey, editorial consultant of the American Book Company and joint author of a series of English books for elementary
and secondary schools, will be the consultant. The conference will be conducted along workshop lines. One and one-half credits may be earned by participants, if so desired.

**Family Life Institute—June 23, 24, and 25**

The annual Family Life Institute is scheduled for Monday, Tuesday, and Wednesday, June 23, 24, and 25, respectively. Dr. Douglas Kelley, M.D., psychiatrist and Professor of Criminology at the University of California, will be the leader. The Institute will deal particularly with problems of adolescent behavior. It is planned this year to organize some discussion groups, including representative adolescents for different areas of Utah. No charge is made for the Institute and both students and the adult public of surrounding communities are invited to participate.

**Conference on Criminology and Law Enforcement—June 26-27**

With Dr. Douglas Kelley of the University of California as chief consultant, a two day conference will be held dealing with problems of criminology and law enforcement. Cooperating in sponsoring the conference are The Utah Peace Officers Association, The State Board of Corrections, and the State Juvenile Court. The general public is invited to participate.

**Conservation of Natural Resources**

Through the cooperation of the United States Conservation Service and other agencies interested in conservation, special attention is being given to problems in this field as part of the Summer School. A regular course in Conservation Education, Ed. 163, is scheduled for secondary school teachers. For elementary school teachers, a three weeks' workshop has been planned to begin June 30. Director of the workshop is Miss Mildred S. Kiefer, advisor of intermediate grades at Phoenix, Arizona. Miss Kiefer has conducted such institutes in various parts of the United States, and it is planned that participants will develop teaching materials for use in their own elementary schools.

**Music Camp—July 6-18**

The Music Camp is one of the oldest in the West. Band, orchestra and chorus are included. It should be of interest to all music directors as well as high school students who qualify as performers. Directors and students are given an opportunity to perform and study under the direction of eminent music educators.

Dr. Frank Simon, internationally known soloist and conductor, returns for the second summer as band director. In addition to receiving professional instruction, students are afforded an excellent opportunity of learning the Sousa tradition from its foremost authority.

James Sample, conductor of the Portland Symphony and guest conductor of several other major symphony orchestras, will direct the summer orchestra.

The chorus will be directed by Professor Walter Welti, head of the vocal music division of the U.S.A.C.

Students will be housed under supervision in the Rural Arts Building. Housing and board will be provided at cost. Students may participate in one or more of the programs. Numerous activities are planned
for the students, permitting them to enjoy a vacation and at the same
time improve their musical performance. Registration fee covering ad-
mission to the entire course, plus housing, is $14.00. Students who do
not require housing pay $7.50 registration fee. Since registration in the
Clinic is limited, interested students and teachers should send in notifi-
cation early concerning their intentions to enroll.

Rural Education Leadership Conference—July 7-11

The 1951 Conference for Rural School Administrators proved so suc-
cessful that it is being continued as an annual feature of the Summer
School. Two guest consultants will appear on the program this year.
Dr. Alexander J. Stoddard, Superintendent of Schools of Los Angeles
and one of America’s leading men in public education, will address the
Summer School audience each day on the 11 o’clock lecture series and
in addition will participate in sessions of the Rural Education Leader-
ship Conference.

Conference leader is Dr. Shirley Cooper, assistant secretary of the
American Association of School Administrators, formerly assistant di-
rector of the Department of Rural Education of the National Education
Association. Dr. Cooper is well acquainted with problems of educa-
tion in the West and will guide the Conference in considering immedi-
ate problems facing the administrators of schools in the Intermountain
area.

The Utah Department of Public Instruction is co-sponsor of this con-
terence. School leaders from Utah and the surrounding states are in-
vited to participate in the five-day sequence of events.

Piano Teachers Workshop—July 7-11

A special workshop for teachers and students of piano in the inter-
mountain area has been scheduled for the week beginning July 7. In-
tstructors at the conference will be Miss Frances Clark and Miss Louise
Goss, of Kalamazoo, Michigan, co-workers of Dr. Guy Maiier. Sessions
will be conducted through the day and evening, dealing with teaching
principles and materials including the works of the great composers.
A special fee for this workshop has been set at $10 to cover all instruc-
tion for the week. One and one-half credits may be earned, if so desired.

Dance Festival

The Physical Education Department will present a public dance
festival performance, “Revelry is Rhythm,” near the close of the first
summer session. Students interested in the field of dance are invited to
take advantage of the opportunity for extensive dance training which
will lead to this production. Interested inquiries should be directed to
the Department of Physical Education.

Aggie Ranger Hike—July 21-August 2

The annual Summer School Hiking and Camping trip (Aggie
Rangers) will take place during the two weeks immediately following
the first session of Summer School, July 21 to August 2. Course work
in camp preparation, packing, and other details will be held in the first
few days before July 21. The primitive area of Yellowstone Park in
Wyoming has been selected for a ten-day laboratory experience in
camping and hiking.
SUMMER SESSION

SUMMER SCHOOL AT BRANCH AGRICULTURAL COLLEGE

The Branch Agricultural College at Cedar City, Utah, also operates a Summer School for one session, scheduled this year from June 9 through July 18. Individuals interested in information concerning this session should address their inquiries to Director Daryl Chase, Branch Agricultural College, Cedar City, Utah.

GRADUATE SCHOOL

J. STEWART WILLIAMS, Dean

Organization

Graduate study is supervised by the Dean of the Graduate School, assisted by the Graduate Council. This Council consists of one representative from each of the seven schools of the college, the Division of Social Work, and the Libraries. Members of the council are appointed by the President in December of each year to serve a one-year term commencing the first of July following.

The Graduate Council for 1951-52 is as follows:

| School of Agriculture—Professor Thorne |
| School of Arts and Sciences—Professor Gardner |
| School of Commerce—Professor Murray |
| School of Education—Professor Frandsen |
| School of Engineering—Professor M. Greaves |
| School of Forest, Range and Wildlife Management—Professor M. Greaves |
| School of Home Economics—Professor Wilcox |
| Social Work (Division of)—Professor Don Carter |
| Libraries—Professor Hendricks |

Admission to Graduate School

A graduate with a Bachelor's degree from Utah State Agricultural College or from any other accredited college or university may be admitted to the Graduate School. Seniors in this college who have an average of "B" or better in all their courses in the junior and senior years, and who at the beginning of any quarter lack not more than five quarter credits to complete all requirements for the Bachelor's degree, may be allowed to register in the Graduate School.

An application for admission accompanied by transcripts of all previously earned credits and letters of recommendation, should be presented as far in advance of the day of registration as possible. All successful applications must receive the approval of the department in which the student proposes to work.

Students who cannot qualify for the degree program in a particular field may be admitted to the Graduate School as non-candidate students. Admission to the Graduate School does not imply admission to candidacy for a higher degree.

Students are admitted to graduate studies in social work who have taken a bachelor's degree with (1) a major in social work; (2) a major in sociology, economics, political science or psychology, and who have a total of not fewer than 36 credits in these four departments; or (3) a major in child development, physical education, public health or education, and who also have 25 credits in one of the four social sciences.
listed above with a fair balance among them. Students over 35 years of age are admitted only by special arrangement.

Master’s Degree

Majors for the Master of Science degree are offered in all the basic biological, physical, and social sciences and in various educational, industrial, and professional divisions of the college. The specific departments in which the Master of Science degree is given, together with the course service provided by the departments, may be determined by consulting the departmental statements provided in the catalogue under the various undergraduate schools of the college.

Qualifying Examinations: A qualifying examination is required by the Graduate School. This examination and any qualifying examination required by the student's department must be taken as soon as possible after registration. The results of these examinations become part of the student's file in the graduate office. If a student is found to be deficient in the work basic to the field in which he proposes to study, he may be required to take undergraduate courses, which do not count in the minimum requirements for the Master's degree, to satisfy the deficiency.

Supervisory Committee: When it has been determined that a student is acceptable as a possible candidate for a higher degree, the major professor will suggest a committee to assist him in guiding the student’s program and in conducting necessary additional qualifying examinations and the final examination. When the student's program has been determined and approved by his committee, he will be advanced to candidacy for a degree. Advancement to candidacy must be accomplished before the end of the winter quarter if the student is to graduate at the following commencement. When the student's research is best supervised by a federal collaborator, or other person who is not a member of the regular teaching staff, such collaborator or other person may be designated as thesis director. The thesis director is a member of the student's committee.

Student Program: The student program for the Master of Science degree must include:

1. At least three quarters of residence;
2. At least 45 credits in courses numbered 100 or above which are approved for graduate credit;
3. At least 10 credits, exclusive of thesis, in courses numbered 200 or above;
4. A thesis with 9 to 15 credits.

Thesis: Each candidate for a Master of Science degree must present a thesis on a topic within the field of his major subject which must represent from 9 to 15 hours of the credit presented for his degree. The thesis must represent a contribution to the field of knowledge, based on the student's own research, or a treatment and presentation of known subject matter from a new point of view. After final approval by the department, the thesis must be typewritten in standard form; and a copy must be submitted to each member of the student's Advisory and Examining Committee at least two weeks before the date of his final examination. After approval by the committee and the department, and after the student has successfully passed the final examination,
four copies of the final draft of the thesis must be deposited in the graduate office. Two copies will be deposited in the library, another sent to the department, and the fourth returned to the student.

**Thesis Alternate:** "Plan B" Reports: The supervisory committee may permit the substitution of three advanced reports, valued at 6 to 10 credits, for the regular thesis. These are known as "Plan B" reports. The Master's program is otherwise the same under the "Plan B."

**Final Examination:** Each candidate for a Master of Science degree is required to pass a comprehensive final examination on the subjects of his graduate study and on his thesis. This examination may be oral or written or both as his committee may decide, and is open to all faculty members and officials of the Graduate School. Arrangements for the time and place of the examination are made by the Dean of the Graduate School. A member of the Advisory and Examining Committee, other than the major professor, or a representative of the Graduate Council is appointed to act as chairman of the examination and submits to the Graduate Council the results of the examination. For candidates who are to receive their degree at the June commencement, the date of the final examination should be not later than May 10.

**Time Limit:** Work for a Master of Science degree must be completed within six years from the date of matriculation as a regular student in the Graduate School if the work is done wholly or in part during the regular academic year. If the work is done entirely in summer sessions, a maximum of seven years is allowed. Older work may be revalidated by examination.

**Extension Course Credit:** The amount of extension credit to be allowed will be determined in consideration of the student's entire course program. In no case will more than nine quarter hours of extension credit be allowed as counting toward a degree. All extension courses for which graduate credit is sought must be regularly registered for through the Graduate School, and must have the sanction of the head of the department in which the student is doing his graduate work. Credit toward a Master of Science degree is not granted for correspondence study.

**Transfer Credit:** A maximum of 9 quarter credits of graduate work satisfactorily completed at another approved Graduate School may be allowed toward a Master of Science degree.

**Credit Load:** Maximum load for full-time graduate students is 16 credits. Maximum for assistants engaged in teaching or research is 12 credits.

**Master's Degree in General Agriculture Under “Plan B”**

The Dean of the School of Agriculture acts as major professor to students working for this degree. The student's program must include a minimum of 6 credits each in the fields of Plant Science, Animal Science, and Agricultural Economics.

**Degree of Irrigation Engineer**

The School of Engineering and Technology offers a two-year graduate program in Irrigation Engineering leading to the degree of Irri-
Irrigation Engineer. The plan of study for this degree is similar in many respects to plans at other western institutions for degrees of Civil Engineer, Mechanical Engineer, etc.

**Special Requirements:** The student program for the degree of Irrigation Engineer includes:

1. A minimum of 6 quarters of study, of which at least 3 quarters must be in residence at Utah State Agricultural College.
2. Completion of 90 credits of approved courses.
3. Completion of a minimum of 30 credits of graduate courses (200 series), exclusive of thesis.
4. Completion of an adequate thesis based on a research program for which a maximum of 30 credits may be allowed by the committee.

For candidates who present the Master of Science degree in an appropriate field of engineering, and who have completed a thesis project for this degree, the requirements will be modified as follows:

1. A minimum of 3 quarters in residence.
2. Completion of a suitable program of study of not less than 45 credits, of which
   (a) at least 30 credits must be graduate courses (200 series), and which may include
   (b) a maximum of 20 credits for thesis.

The suggested curriculum for this degree is detailed in the section on engineering.

**Degree of Doctor of Philosophy**

**General:** The degree of Doctor of Philosophy (Ph.D.) is awarded by the Utah State Agricultural College in recognition of high attainment and productive scholarship in a special field of learning. Admission to the Graduate School to work toward the degree of Doctor of Philosophy is obtained in the same manner as for the Master's degree. Qualifying examinations are similarly required, and the student's program is likewise directed by a supervisory committee.

**Student Program:** The student program for the Doctor of Philosophy degree must include:

1. Three years of full-time graduate study above the Bachelor's degree. If the student has a Master's degree, then two years will be required. The student's supervisory committee may recommend that part of this program be taken at other schools, but the last year must be spent in residence at Utah State Agricultural College;
2. A minimum of 135 credits of approved graduate study beyond the Bachelor's degree, 90 credits beyond the Master's degree;
3. A major field to which approximately two-thirds of the program is devoted, and a minor field to which approximately one-third of the time is devoted;
4. A research problem on which a thesis will be presented. Credits for this thesis may not exceed 45, and work on the thesis should ordinarily occupy most of the third year.
Language Requirement: A reading knowledge of at least one foreign language is required of all candidates. The particular language required will be that which meets best the applicant's needs. Requirement of a second language will be optional with the department in which the student is taking his major. The degree of proficiency of the applicant to use the required language in his chosen field and his knowledge of the grammar and structure of the language will be determined by a committee appointed by the Dean of the Graduate School from members of the Language departments.

The language examination should be taken before the beginning of the third year of study.

Preliminary Examination and Candidacy: Written and oral examinations are conducted by the supervisory committee and the departments concerned, usually in the last quarter of the second year of the student's work, to determine his fitness for admission to candidacy for the degree of Doctor of Philosophy.

Thesis: A completed dissertation approved by the department must be presented to the supervisory committee not later than May 1 of the year in which the student will graduate. The dissertation must show ability to do critical and independent research. It must present a contribution to knowledge in scholarly fashion.

Final Examination: The final examination in defense of the candidate's thesis will be conducted by the supervisory committee not later than two weeks before the date of commencement.

Teaching and Research Assistantships

A number of teaching and research assistantships in various departments of the college are available each year to graduate students. Teaching assistantships carry a stipend of $810 for one-third teaching service on a nine-month basis. Remuneration for research assistantships may vary from $810 to $1,200 dependent upon the time of service involved. All assistantships are arranged so as to allow the student to complete work for his Master's degree in two years. At present, assistantships are available in the following departments: Animal Husbandry, Accounting and Business Administration, Agricultural Economics and Marketing, Agricultural Engineering, Agronomy, Art, Auto Mechanics, Bacteriology and Public Health, Biochemistry, Botany and Plant Pathology, Chemistry, Child Development and Parental Education, Civil Engineering, Clothing and Textiles, Dairy Industry, Economics, Education, English, Entomology, Forest Management, Foods and Nutrition, Geology, Horticulture, Home Economics Education, History, Irrigation and Drainage, Music, Mathematics, Modern Languages, Physical Education, Physiology, Physics, Poultry, Psychology, Range Management, Sociology, Speech and Drama, Technology, Veterinary Science, Vegetable Crops, Wildlife Management, and Zoology. Research Fellowships are available in: Animal Husbandry, Agricultural Economics and Marketing, Agronomy, Bacteriology, Botany and Plant Pathology, Chemistry, Dairy Industry, Entomology, Foods and Nutrition, Irrigation and Drainage, Physiology, Range Management, Sociology, Vegetable Crops, Wildlife Management, and Zoology.

POULTRY CONFERENCE

The nineteenth Annual Training School for the training and qualifying of poultry flock-testing and pullorum disease-testing agents will
be held at the College during the month of August. Dates will be announced early in the summer. Those interested should write to the Department of Poultry Husbandry for detailed information.

**NURSERY SCHOOL**

The college Nursery School will operate for the benefit of college students who bring their children and desire a means of caring for them during school hours. Enrollment, limited to 15 children, will be made up of 2, 3, and 4 year old children. Those students enrolled in Child Development classes will use the Nursery School as a laboratory for observing and working with preschool children. School sessions: Monday through Friday 8-11 a.m., first summer session only. Application for enrollment should be made in writing on or before registration day. Children will be accepted in order of application. Admission is by application only. Tuition: $5 for six weeks.

**DEMONSTRATION SCHOOL**

A demonstration school including the middle grades of the elementary school will be conducted during the first session. Classes will start on June 16 and continue through July 1. Children of fourth, fifth, and sixth grades will be enrolled, with special preference being given to the children of Summer School faculty and students. Enrollment will be accepted in advance. Inquiries should be directed to Mrs. Edith Shaw, Principal of Whittier School, U.S.A.C.

The demonstration school will be conducted in connection with the class in Ed. 195, *Workshop in Elementary School Curriculum*. It will also serve as a laboratory for the Art Workshop and other courses dealing with special aspects of the elementary school curriculum.

**SPEECH CLINIC**

The Speech Clinic provides special classes to meet the needs of foreign students. Both group and individual instruction at the Speech Clinic can be obtained by foreign students so that they can learn the use of American English as rapidly as possible.

Remedial training is available for those individuals possessing speech handicaps. The types of problems handled include stuttering or stammering, stage orders of articulation, cleft palate and hare lip, paralytic speech, foreign accent and dialectic speech, "nervous" speech conditions, nasal speech, high or thin voices, etc. All college students who have defective speech should register with the Speech Clinic where they will receive immediate attention. This training is also available to non-college students, by special appointment with the Clinic.

**SUMMER SCHOOL "STUDENT LIFE"**

"Student Life," student weekly newspaper, is issued during the summer. It carries, in addition to general campus news, announcements of lyceums, concerts, and other special activities provided by the Summer School.

**TEACHERS' CERTIFICATES**

By attending the Summer Quarter of Utah State Agricultural College, students may meet any of the requirements for Utah certification.
with the exception of practice teaching; and, since the College is fully accredited, credit will be accepted in other states for any subject completed in the Summer Quarter that forms part of the certification requirements of these states.

**TEACHERS' PLACEMENT BUREAU**

The College Teacher Placement Bureau functions in connection with the Summer School. All teachers seeking employment may register in this bureau. Superintendents and others who employ teachers will find it to their advantage to consult the list of applicants which will be furnished upon request. Interviews with applicants will also be arranged. The Bureau is located in the Main Building, Room 276.

**GRADUATION**

Requirements for graduation in the various schools and departments of the College are listed in the general catalogue. In most cases students can complete many of these requirements by attendance during summer quarters. In every department, one or more advisers are assigned to guide the student's work leading toward graduation. Students planning to attend during the summer are invited to write to the departments in which they are interested for evaluation of credits and other such guidance services.

Graduation exercises are held only once during the year—at the end of the spring quarter. Students who complete all requirements during the summer may receive official statements of completion by applying to the chairman of the Graduation Committee. Their degrees will be conferred at Commencement the following spring.

**VETERANS' ADMINISTRATION**

The College maintains a veterans' bureau on the campus where all GI students may receive guidance service and where provisions for the clearance of veterans for registration and so forth is made. In this connection, it should be pointed out that veterans who completed the Spring Quarter may attend Summer School under the GI Bill, or they may take the usual summer vacation and in either case their entitlement will be active for the Fall Quarter.

Veterans who attended Summer School last year and who have been teaching school during the regular school term may continue to attend Summer School under the GI Bill. In fact, they must attend at least one session of five weeks duration in order to keep their entitlement active. Either the first or second session at U.S.A.C. will thus qualify. It will be necessary for such veterans to submit a statement from some responsible official of their school stating that they are employed as teachers and giving the beginning and ending dates of the school term.

Veterans who plan to take graduate work under the GI Bill must make application for graduate work while they are still in training in undergraduate work. Applications made after graduation will not be granted.

Further information may be obtained by addressing:

Office of Veterans' Affairs
Utah State Agricultural College
Logan, Utah
LIVING ACCOMMODATIONS

The housing situation is better at Utah State than it has been for years. Nearly any type of accommodation desired can be obtained through the College Housing Office or private home owners. Many Logan City residents list their apartments, rooms, or board and room accommodations with the College Housing Office, Room 107, Main Building. Such listings may be had by anyone who wishes to call for them. The Housing Office has the following accommodations available for Summer School students:

Lund Hall, offers campus dormitory accommodations for women.

Kerr Hall, located in downtown Logan, offers housing for men students. Both of these halls have served summer school students satisfactorily for several summers.

"Pre-fab" and quonset apartments are available for couples or families on a monthly basis.

Lund Hall because of its size will also be available for some teachers or married couples who wish to remain on the campus. Some limitation in reservations for this hall is made so those desiring to live there should make reservations as early as possible.

On page 70 in this catalog there is a form for use in making application for housing. A five dollar deposit should be forwarded with the request for a dormitory reservation. A ten dollar deposit is required for a couple or family unit reservation.

AGRICULTURAL ECONOMICS AND MARKETING

W. P. THOMAS, Professor; V. L. ISRAELSEN, Professor; R. H. ANDERSON, Associate Professor.


162. Marketing Agricultural Products. Economic principles underlying the production, demand, and distribution of agricultural products. Required of all students majoring in the School of Agriculture. 3 credits. First session. M178. Anderson

AGRICULTURAL EDUCATION

STANLEY S. RICHARDSON, Professor
S. S. SUTHERLAND, Visiting Professor

289. Special Problems. For teachers of vocational agriculture who desire to develop a more practical program for future, young, and adult
farmers. Held during Agricultural Teachers Summer Conference. 8 to 11 and 1-4 daily for 1 week. 2 credits. First session. Rural Arts Building.

Sutherland and Richardson

Note: If there is a need, the following courses will be offered during the four weeks after the completion of course #289.

225. Special Problems in Agricultural Education. A consideration of needs of individual students and special types of service. 8 to 9 daily for 5 weeks. 1-2 credits. First session. P105.

Richardson

124. Methods of Teaching Farm Mechanics. Scope of mechanics in agriculture, lesson planning, course of study preparation, shop equipment and management, skill requirements, and supervised practice. 9 to 11 daily except Friday. 3 credits. First session. A-220.

Richardson

AGRONOMY

D. W. THORNE, D. W. PITTMAN, D. C. TINGEY, H. B. PETERSON, Professors; W. H. BENNETT, S. A. TAYLOR, Associate Professors; D. R. McALLISTER, Assistant Professor.

103. Forage Crops. Alfalfa, clovers and other farm forages; classification and methods of production, harvesting and storage; meadow and pasture management are discussed. Attention is given to the place of these crops in rotation, soil conservation, and erosion control. An assessment is made for field trips. 4 credits. Daily at 7. Second session.

Lab M. T. 2-5, P204.

Bennett


Staff

160. Livestock Production Problems. Problems in livestock production, particularly in Utah. Students are expected to apply knowledge acquired in previous courses in the solution of problems they will face in the field after graduation. Prerequisites: A.H. 110 and 125. 3 credits. Daily at 7. First session. AH203.

Staff

218. Special Problems in Agronomy. Special problems in crop production, crop breeding, soil fertility or other phases of agronomy work are investigated. Students review literature on the problem and conduct experiments in the laboratory or on field plots. Credit and time arranged. Both sessions.

Staff


Staff

ANIMAL HUSBANDRY

J. A. BENNETT, L. E. HARRIS, Professors; HYRUM STEFFEN, Assistant Professor.

40. Fitting and Showing Livestock. 1 credit. T.Th. 2-5. Judging

ART

FLOYD V. CORNABY, H. REUBEN REYNOLDS, Professors; JESSIE LARSON, Associate Professor; WARREN B. WILSON, Instructor; CALVIN FLETCHER, Professor Emeritus.
Visiting Faculty

PAUL A. BONIFAS, J. ROMAN ANDRUS, HERBERT BARTLETT, DELBERT NAPPER, GAYLEN HANSEN.

1. Art Structure and Design. Creative approach to line, mass, form, pattern, texture, color, and their combined relationship to design construction. Room M335A. Daily 10. 3 credits. First session. Wilson


Larsen

Second session. Daily 8-10.

111. Fabric Design and Application. Projects in creating designs of character and beauty and applying them to suitable textiles in techniques of block print, stencil, hooked rug, tie and dye, freehand painting batik. Room M333. Daily 2-4. 3 credits. First session. Larsen

112. Ceramics. Art of making pottery, tiles, figurines, etc. Studio. First session. Section 1. Daily 8-10. Section 2. Daily 1-3. 3 credits. Bonifas


153-154. Art Education Workshop. This course is designed to give teachers a chance to explore the field of art experiences, to work with many types of art media, to explore the background material and to develop a philosophy of art suited to the learning needs of the growing child. The course will introduce the recently completed Art Supplement to the Teaching Guide for the Elementary Schools of Utah. This course is designed to give help to the regular classroom teacher. Whittier School. 3-5 credits. First session, June 10-June 27, Daily 9-12-1-4. Reynolds


BACTERIOLOGY AND PUBLIC HEALTH

W. WHITNEY SMITH, KENNETH R. STEVENS, Professors; C. DAVID McGUIRE, Assistant Professor.

Bacteriology

1. Elementary Bacteriology. Basic concepts and practical applications. 4 credits. 7 to 9 M T W Th. P-302. 1st Session. Stevens

7 to 9 daily. 2nd Session. P-302. McGUIRE

197. Bacteriological Problems. Closely supervised library and/or laboratory work in selected problems. Prerequisite: Two laboratory courses in Bacteriology. Thirty three clock hours per credit. Time arranged. 1-3 credits. Both Sessions.
SUMMER SESSION

297. **Advanced Bacteriological Problems.** Special assignments, reports, and discussions. Preparation of a comprehensive and critical review. Time and credit arranged. Both Sessions. **Staff**

299. **Thesis Research.** Time and credit arranged. Both Sessions. **Staff**

**Public Health**

141. **Control of Communicable Diseases.** Mechanisms of transmission, prevention, and control of the more contagious diseases: Prerequisites: P.H. 50 and Bact. 1 or 70. 3 credits. 8 daily with 5 class hours to be arranged. P-302. 2nd Session. **Smith**

143. **Public and School Health Administration.** Administration, organization, and functions of health agencies. Prerequisite: P. H. 50. 3 credits. 10 daily with 5 class hours arranged. P-302. 2nd Session. **McGuire**

155. **School Health.** Health training for state certification requirements in health education. 3 credits. 9 daily. P-302. 1st Session. **Stevens**

9 daily with 5 class hours arranged. P-302. 2nd Session. **Smith**

156. **School Health Methods.** Objectives, methods, curricula, and materials. Prerequisite. P.H. 155. 3 credits. 7 daily with 5 class hours arranged. P-202. 2nd Session. **Stevens**

257. **Advanced Public Health Problems.** Special assignments, reports, and discussions. Preparation of a comprehensive and critical review. Time and credit arranged. Both Sessions. **Staff**

158-258. **Workshop in Health Education.** Students will attend all sessions of the Health Education Conference, hand in notes based on each session, and submit a work project calling for further study built on one of the conference sessions and agreed to by the instructor. 1½ credits. June 11-14. **Staff**

**BOTANY**

W. S. BOYLE, ARTHUR H. HOLMGREN, Associate Professors.

20. **Common Plants of Utah.** A study of plants characteristic of the valleys and canyons of Utah. Wherever possible plants will be studied in their native habitats. Especially designed to aid teachers in the grades and secondary schools. 5 credits. M.T.W.Th. 1. P-105. Lab M.T.W.Th. 2-5. P-103. First session. **Holmgren**


**BUSINESS ADMINISTRATION**

V. D. GARDNER, L. MARK NEUBERGER, Professors; NORMAN S. CANNON, Assistant Professor; STANFORD L. JOHNSON, Instructor.

12. **Social Security and Payroll Accounting.** Offered in response to a need for more explicit information regarding laws affecting labor and accounting practice incident to observation thereof, in connection with such matters as Federal Old Age and Retirement Benefits, Workman's Compensation, Fair Labor Standards Act, Withholding Taxes, etc. First session. 3 credits. Daily 8. M353. **Cannon**
63. **Salesmanship.** The history, development and opportunities in sales work. The necessity and methods of securing proper preparation for sales work in order to meet problems encountered in both direct selling and retail selling are analyzed. The principles of preparing for interviews, proper presentation, gaining favorable attention, arousing the desire to buy, meeting objections, and creating acceptance are studied. For those who desire, special projects can be carried out in relation to a particular type of selling. Lectures and assigned cases. Second session. 3 credits. Daily 10 and M9. M354.  

Johnston


Cannon

155. **Personnel Administration.** A critical analysis of the problems of labor management which confront the manager of a business enterprise, and policies and methods of dealing effectively with these problems. Lectures, problems, and selected cases. First session. 3 credits. Daily 9. M308.  

L. M. Neuberger

161. **Problems in Retail Distribution.** Presents the marketing process from the viewpoint of the retail distributor. The problems given major attention are: types of retail institutions, accounting and statistics, pricing, brand policies, buying, merchandise control. Second session. 3 credits. Daily 8 and F 7. M354.  

Johnston

179. **Methods of Teaching, Typewriting and Bookkeeping.** (See Secretarial Science or Education 179.)  

Neuberger

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**CHEMISTRY**

REUBEN L. HILL, SHERWIN MAESER, DELBERT A. GREENWOOD, Professors; MELVIN C. CANNON and HARRIS O. VAN ORDEN, Associate Professors.

10-11. **General Chemistry.** Fundamental principles of inorganic chemistry. Both terms. 5 credits each term. Open to any matriculated students. Lecture daily at 10. Lab MTWTh. 2-5. W205.

14. **Qualitative Analysis.** For students who have completed Chemistry 10 and 11 or similar descriptive courses and wish to prepare to take quantitative analysis. This duplicates much of the work done in Chemistry 4 and 5. Three lecture and two 3-hour laboratory periods weekly. Credit 5 hours. Lecture M.W.F. 9 Lab. arranged. S. Maeser

17-117, 18-118. **Quantitative Analysis.** Theory and practice of gravimetric and volumetric analysis. Prerequisite Chem. 5. The course is so designed that it presents a terminal course for majors in agriculture, home economics and premedical or predental students. Both terms. Lecture MTWTh.—1, Lab MTWTh. 2-5. 4 credits each term. W205.

90-190. **Elementary Biochemistry.** Both Sessions. Lectures M.W.F. 9, M.W. 2-5. 5 credits. W103. Greenwood

189-289, 192-292, 193-293. **Biochemistry.** For senior and graduate students only. Time and credit arranged. Greenwood

125-126. **Applied Organic Chemistry.** Biological applications are emphasized. Designed especially for students in Agriculture, Home Economics, and Nutrition. Both terms. 5 credits each term. Lecture Daily 8, Lab Daily 2-5. Prerequisite Chemistry 10 and 11, or equivalent. W205.

Staff

198-298. **Research.** Senior or Graduate Students in Chemistry may register for research in any branch of the subject. Time and credit arranged. Staff
CHILD DEVELOPMENT

HELEN L. PORTER, BRUCE GARDNER, Assistant Professors.

67s. The Child in the Family. To help students develop a philosophy of family living as a desirable background for the child; understanding of reproduction, prenatal care, and care of the mother and baby during the first year of the child's life; fundamentals of growth and development; and a beginning concept of guidance. Either the 9 or 10 o'clock hour must be free to allow for scheduling observation in the Nursery School. 4 credits. Daily 8 and one additional hour arranged. First Session.

Gardner

174s. Nursery School Methods. Must parallel practice teaching. Special consideration will be given to understanding the needs of individual children in the nursery school, and evaluating the principles used in guiding them. 3 credits. Daily 7. First session. Nursery School.

Porter

175s. Practice Teaching in the Nursery School. Open to qualified senior students. Check prerequisites with instructor before enrolling. Time and credit arranged.

Note: Students must see instructor before registering for either of the above.

CIVIL ENGINEERING

J. E. CHRISTIANSEN, E. M. STOCK, Professors; WILLIS A. TINGEY, REYNOLD K. WATKINS. Assistant Professors.

Summer Surveying Camp

C. E. 87. Summer Surveying Camp. This camp is conducted each year during the three weeks preceding the opening of the fall term. The offerings include: Highway curves and earth work, geodetic procedure in layout, and field establishment of triangulation nets, methods of precise chaining and leveling, triangulation and closing of the quandrangle. Special problems in topographic mapping and location of canals and highways follow the general phases to complete the course. The camp is conducted from the Utah State Agricultural College campus, which makes it possible for students to live at home or on the campus and affords the facilities of the Engineering School for lectures, drafting rooms, instrument storage, and office space. The field laboratory consists of a large area to the east of the campus on the Provo bench of old Lake Bonneville, and the steep and rugged west slope of the Wasatch Range. The area extends east to include mountain peaks which afford excellent triangulation station, locations, and north and south a distance of some two and one-half miles each side of beautiful Logan Canyon. In this outdoor laboratory is included terrain ideal for all types of surveying work, including hydrographic work on Logan River and reservoir. Two hydro-electric plants are within areas; one high head type and one low head type, with a combination hollow buttress dam and storage reservoir adjacent to it. Sheer canyon walls, steep slopes, rolling hills, and flat bench lands, all within a three mile radius of the Utah State Agricultural College campus, make this an ideal outdoor laboratory. The excellent climate helps make this an outstanding surveying camp.

The student is responsible for his own transportation to the field and return each day, his living expenses, and the registration fee.
Prerequisite, C.E. 85 and immunization for Rocky Mountain Spotted Fever. 4 credits. First Three Weeks. Daily 8 to 5. Tingey & Staff

Note: Any course listed in the General Catalog, not in sequence order, will be taught during the regular summer session upon the request of 8 or more students. Such request must be submitted in writing before May 15, 1952.

CLOTHING, TEXTILES AND RELATED ARTS

FLORENCE GILMORE, MIGNON PERRY, Assistant Professors

25. Clothing, Selection and Construction. Consideration is given alteration commercial pattern, fitting of a basic pattern in muslin, and techniques of designing from a basic pattern. One garment is constructed with emphasis upon selection, fitting, good procedures and finishes. 3 credits. Daily 8-11. First Session. C214. Gilmore

115. Costume Design. Art elements and principles of design related to dress for the individual. Application and ability to achieve beauty and art, quality in dress, in the home, and daily life are aims. Prerequisites for Home Economics Education and Clothing Textiles, and Related Arts majors: Art 1 and 2; Clothing, Textiles and Related Arts 5, 6, or 9, 24 and 25. Art and Clothing to satisfy the instructor for others. Outside work required. 3 credits. Daily 1-4. First session. C206. Gilmore 115.

41 or 141. Weaving. Designing and weaving of personal and household articles. Aim of the class is to develop an understanding of basic fabric construction and skill in the various techniques of hand weaving. C206. Daily 1-4. Second session. Credit arranged. Staff

169. Newer Developments in Textiles. Designed for teachers and advanced students of Clothing and Textiles. Class includes a study of fibers, finishes, and materials being placed on the market and economic conditions affecting their production as well as factors influencing choice and care of present-day materials. Prerequisite, Textiles 24 or equivalent. 2 credits M.W.F. 7. First session. C208. Gilmore

190. Special Problems. Independent study under direction of professor of a problem in the area of clothing or textiles. Time and credit arranged.

Sec. 1—Miss Gilmore
Sec. 2—Miss Perry

DAIRY INDUSTRY

GEORGE B. CAINE, A. J. MORRIS, Professors; PAUL B. LARSEN, LLOYD HUNSAKER, Associate Professors

1. General Dairy Husbandry. History and present status of the dairy industry; starting dairy herds; breeds of dairy cattle; cow testing associations; club work; study of herd records; and calf feeding. 3 credits. Daily at 9 with lab. arranged. First session. AH103. Caine and Hunsaker

7. Plant Practice. For special or short course students only. Practice in plant manufacture emphasized. Time and credit arranged. Both sessions. Morris and Larsen

keeping, selection, care, and management of the herd sire. 3 credits. Daily 10. 1 hr. arranged. AH103.

Caine & Hunsaker

150. Special Problems in Dairy Production. Arranged for a limited number of students. Time and credit arranged. Both sessions.

Staff

154 or 254. Special Problems in Dairy Manufacturing. Time and credit arranged. Both sessions.

Morris and Larsen

216. Research in Dairy Production. Arranged for a limited number of students. Time and credit arranged. Both sessions.

Staff

217. Research in Dairy Manufacturing. Time and credit arranged, Both sessions.

Morris and Larsen

ECONOMICS

EVAN B. MURRAY, Professor LEO M. LOLL, Assistant Professor

W. L. WANLASS, Professor Emeritus

51. General Economics. For the general college student regardless of field of specialization. Principles and institutions underlying operations of the economic system. 5 credits. Daily 7. Both sessions. Staff


165. Money, Credit, and Prices. Structure and operations of money and financial institutions. Special attention given bimetallism, the gold standard, the money market, and the relation of money and credit to prices. Prerequisites: Econ. 51, 52. 3 credits. Daily 9. First session. M357. Wanlass

102. Workshop in Conservation Education for the Elementary School. Meeting for two or more hours per day for the second three weeks of the summer school, this course will deal with how to include the study of conservation in the elementary school. Consultants from various departments of the College will be used as resource persons for basic information on problems of conservation and natural resources and their significance at the present time. The workshop will be coordinated with the class in Ed. 163 Conservation Education in the Secondary School. 3-5 credits. Daily 8 & 9. Additional hours arranged. Second 3 weeks of first session. F104.

108. Student Teaching in Elementary School. Credit arranged. Enrollment only on consultation with instructor.


113. Principles of Guidance. Major emphasis given to organization of guidance as a service, including individual and occupational differences, tests, measurements, and counseling. 3 credits. Daily 2. First session. M354.


115. Secondary School Curriculum. The course will be concerned with new approaches to “program planning” in the secondary school. Different viewpoints respecting the curriculum and examples of new-type curricula attracting attention in various parts of the country will be considered. 3 credits. Daily 9. First session. M280.

117. Extra Curricular Activities. A practical course designed to emphasize ways and means of making the extra-curricular program of the junior and senior high school contribute more effectively to the educational purposes of the school. 3 credits. Daily 10. Second session. B280.

124. Methods of Teaching Farm Mechanics. Scope of mechanics in agriculture, lesson planning, course of study preparation, shop equipment and management, skill requirements, and supervised practice. 3 credits. 9 to 11 daily except Friday. First session. M220.

129-130. Student Teaching in Secondary School. Credit arranged. Enrollment only on consultation with instructor.

136. Improvement of Teaching in Elementary Schools. An analysis of the newer concepts of method and the basic factors affecting learn-

138. Improvement of Teaching in Secondary Schools. Designed to meet the needs of teachers, supervisors, and administrators. Emphasis will be upon recent developments in the improvement of teaching-learning situations and activities from the junior high school to the junior college. 3 credits. Daily 10. First session. M305. Budge


161. Audio-Visual Aids in Education. Emphasizes the importance of audio-visual aids in the school program. Building a workable program in which are utilized the newest materials and techniques. 3 credits. Daily 9. First session. M83. Oakes


Sampson

163. Conservation Education in the Secondary Schools. A course dealing with the practical application in the secondary schools of the principles, methods and materials of conservation of natural resources. Representatives of conservation agencies will describe the work of their agencies and consultants from the various departments in the College will assist as resource persons for basic information on problems in the field of conservation. Coordination will be made with Education 102, Workshop in Conservation Education for the Elementary School. 3 credits. Daily 2. First session. F101.

Noble


182. History of Education. A study of major educational movements from early Greek to the present with special emphasis on purposes, organization, instructional procedures, curriculum, etc., and their bearing on today's education. 3 credits. Daily 1. First session. M356. Jacobsen

194. International Folklore in Education. Emphasis will be placed upon the customs and traditions of western civilization which have become incorporated into school systems, curricula, and procedures of the various nationalities. The aim of the course will be to increase inter-cultural understanding. 3 credits. Daily 10. First session. M280.

Dengler


205. Readings and Conference. Credit arranged. Staff

207. Elementary School Administration. A practical course dealing with the operation and management of the elementary school. Designed for elementary school principals, supervisors or advanced students in

Snyder

208. Elementary School Supervision. An intensive study of problems in the field of supervision of the elementary school. Interrelationships among the staff members and cooperation with community leadership in developing the school program will be considered. Designed for elementary school principals, supervisors, and students in education preparing for such positions. 3 credits. Daily 9. First session. C101.

Snyder

215. Practicum in Secondary School Curriculum. Course will deal with the development of curriculum guides in the various areas of the junior and senior high school. Special attention will be given to emphasis upon the common learnings. Each member of the class will be expected to develop one or more courses of study or curriculum outlines. Designed for school administrators, and experienced teachers. 3 credits. Daily 9. First session.

Snyder

221. School Administration. A general study of the work of the school administrator and the principles upon which the profession of school administration is practiced. Federal, state, and local relations to education are discussed. 3 credits. Daily 8. Second session. M280.

Gordon

225. Special Problems in Agricultural Education. A consideration of needs of individual students and special types of service. 1-2 credits. Daily 8 for five weeks. First session. P105.

Richardson


Oakes

236. Secondary School Administration. Selected topics in secondary school administration will be considered including problems of teacher-pupil personnel, the principal as supervisor, managing the activity program and so forth. Designed for experienced school principals and those preparing for the administrators certificate in secondary education. 1 1/2 credits. Daily 9. Second three weeks of first session. M287.

Jacobson

237. Problems in Secondary Education. An intensive consideration of selected problems in the field of secondary education. Prospective class members are invited to communicate with the instructor in advance to recommend problems for consideration. 1 1/2 credits. Daily 10. First three weeks of the first session. M287.

Oakes

240b. Evaluating the Secondary School. Using the 1950 edition of the Evaluating Criteria for Secondary Schools, developed by the Regional Associations of Secondary Schools and Colleges, the course is designed to help teachers understand the basis of these criteria and ways and means of using them effectively in evaluating the present high school. 1 1/2 credits. Daily 10. Second three weeks of first session. M287.

Staff

250-51-52. Master’s Essay. Individual guidance in the preparation of research papers as part of research requirement for the Master of Science degree. Time and credit arranged. Either session.

Staff


Carlisle

271. Research and Thesis Writing. Provides for individual work in thesis writing with the necessary guidance and criticism. Enrollment only on permission of instructor with whom the student will work. Time and credit arranged. Either session.
Any course listed in the regular catalog will be given in the summer sessions upon petition of a sufficient number of students who may need and desire such a course.

ENGINEERING DRAWING

G. MERRILL SHAW, Associate Professor

61, 62. Engineering Drawing. The use of drafting instruments, graphic solutions, applied geometry, lettering principles of shape and size description, sectioning, and standard elements and symbols which make up working drawings used in industry. Problems are included in sketching, and pictorial illustrations are made from orthographic views. 3 credits. Both sessions. Time arranged. TC 1. Shaw

93. Mechanical Drawing. An advanced course primarily for Technology students and those interested in drafting minor. Includes basic work in industrial drawing, including machine fasteners, developments for patterns, and the fundamentals of architectural, structural, welding, piping, and electrical drawings. Prerequisite: E.D. 62. 3 credits. Both sessions. Time arranged. TC 1. Shaw

ENGLISH

WALCCE J. VICKERS, Professor; WENDELL M. KECK, MOYLE Q. RICE, HUBERT W. SMITH, Associate Professors; STANLEY P. ANDERSEN, MAXWELL D. EDWARDS, Assistant Professors; J. LYNN MORTENSEN, Instructor.

5. Scientific Vocabulary. A study of word formation and derivation as a means of understanding scientific terms and of increasing vocabulary. 3 credits. Daily 8. First session. L309. Andersen

10. Sophomore Composition. Required of all students not offering its equivalent. May not be taken in the freshman year. Emphasizes correctness and effectiveness in sentence, paragraph and theme; gives practice in organization and outlining of material, and in expository writings; demands clear, forceful expression, and requires a full third of a student's time. 5 credits. Daily 10. Both sessions. L305. Rice & Mortensen


33. Contemporary Short Story. The technique of the short story. English, American, and European stories are analyzed. Encouragement is given students who wish to write. 3 credits. Daily 9. First session. L301. Mortensen

53. **American Literature.** Survey of American literature from the beginnings to the present, with emphasis on main literary trends and ideas characteristic of American culture. Open to English majors or minors and to others by permission of the instructor. 5 credits. Daily 8. Both sessions. L301.

   *Hayward & Andersen*

110. **Advanced Composition.** For students who have taken English 10 or 11; may be taken in place of English 19 by students who have credit in English 17 and English 18 and who have transferred from Forestry or Engineering; may be taken by transfer students who have six credits in Composition. Emphasizes vocabulary, selection, and clear organization of information. 4 credits. M.T.W.Th. 10. Both sessions. L309.

   *Hayward & Andersen*

111-211. **Technical Writing.** Emphasis upon bibliography, research methods, and final form of the technical report. Open to juniors and seniors only. 3 credits. Daily 9. First session. L305.

   *Keck*

118. **Poetry Workshop.** Direction and criticism for students who wish to write poetry. 2 credits. M.T.W.Th. 10. First session. Moore Library.

   *Andersen*


   *Edwards*


   *Edwards*

204. **Comedy.** A study of the theory of comedy and of the use of comedy in various literary forms. 3 credits. Daily 10. L303. Second session.

   *Vickers*

### ENTOMOLOGY

DATUS M. HAMMOND, G. F. KNOWLTON, Professors.

102. **Systematic Entomology.** Each student must collect, properly mount and label a representative collection of insects containing at least 400 specimens, 125 species, and 15 orders, the collection to be arranged in phylogenetic sequence. Correctly place specimens in order. Two full day field trips will be taken. Prerequisite: Ent. 13 or 108. Time arranged. 3 credits. Either or both sessions. M228.

   *Knowlton*

103. **Systematic Entomology.** The collection arranged for Ent. 102 must be enlarged to at least 700 specimens, 225 species, 100 families and 18 orders. Classification will include a correct placing of specimens in families. Two full day field trips will be taken. To be taken only with the permission of the instructor. Prerequisite: Ent. 101. 3 credits. Time arranged. Either or both sessions. M228.

   *Knowlton*

104. **Systematic Entomology.** Permission to take this course depends on the student’s collection for Ent. 102 and 103. If his collection justifies further study, he may select one or two orders of insects and classify them to species. To be taken upon permission of the instructor. 3 credits. Time arranged. Either or both sessions. M228.

   *Knowlton*

210. **Special Problems.** Students may select or be assigned problems dealing with certain phases of Entomology. The amount of credit depends on nature of problem and time spent. Open to undergraduate students only by special permission. Prerequisites: Ent. 13, 103, and 108. Time and credit arranged. Either or both sessions.

   *Staff*
234. **Readings in Entomology.** Assigned readings of advanced nature. Time and credit arranged. Either or both sessions. **Staff**

250. **Research and Thesis.** For research connected with problem undertaken for partial fulfillment of requirements for Master of Science degree. Time and credit arranged. Either or both sessions. **Staff**

**FOODS AND NUTRITION**

E. O. GREAVES, U. VERMILLION, Professors; EDNA PAGE, Associate Professor.

101. **Food Service for Special Occasions.** Techniques of organization and food preparation and serving for all types of special occasions. Work assignment will include planning, purchasing, and executing for actual situations. No pre-requisites. Lecture Monday and Tuesday at 9:00 a.m. Laboratory five hours per week by special assignment. 2 credits. **Vermillion**

107S. **Experimental Cookery.** Development of experimental methods; their application to investigation in cookery and food preservation; acquaintance with literature in the field; preparation of the student for independent investigation in foods. Prerequisites: Chemistry 5 or 11; Foods 24 and 25. Three credits. Lecture: M.W.F. 8. Lab. T.Th. 2-5. **Page**

120. **Food Demonstrations.** The purposes and techniques of lecture-demonstrations in relation to food preparation and nutrition, with application to teaching, extension, and business. Prerequisites: Foods 24 and 25. 1½ credits, first three weeks. Lecture: M.W.F. 10. Laboratory: M.W. 2-4. **Page**

185-285. **Nutrition Refresher Course.** Recent developments in the field of nutrition. 1½ credits, second three weeks. Daily 10. **Page**

**FOREST, RANGE, AND WILDLIFE MANAGEMENT**


**Forestry Summer Camp**

The School of Forest, Range and Wildlife Management owns or controls 3,000 acres of forest and range land approximately 25 miles from the campus within the Cache National Forest, where summer camp facilities are established. Seven weeks of field instruction is given at the Tony Grove Summer Camp and is required for graduation for all students in the School of Forest, Range and Wildlife Management. Attendance at this camp is required between the sophomore and junior year and is prerequisite to the technical courses of the junior and senior years.

There are four instruction courses offered at summer camp with a total of nine credits, and students in the School of Forest, Range and Wildlife Management are required to take all four courses. This summer camp opens Tuesday, June 10, and continues for a period of seven weeks.
Forestry

96. **Surveying.** Practical field problems in surveying methods commonly employed in forest, range and wildlife management and developments. Type mapping. Lab. fee $5.00. Summer camp (3) Staff

97. **Forest Practice.** Field studies in inventories, successional stages and growth of stands of trees. Study of forest soils and related land uses. Lab. fee $5.00. Summer camp (2) Staff

Range

98. **Range Practice.** Field practice in the problems of range land analysis and correlation of land uses. Lab. fee $5.00. Summer Camp (2) Staff

195. **Range Problems.** Individual study and research upon a selected range problem. (1-3) Staff

200. **Thesis.** Original research and study on a problem in range management. This course is open only to graduate students. (1-15) Staff

Wildlife

99. **Wildlife Practice.** Integrated studies of wildlife populations in relation to other forms of life and to other land uses. Lab. fee $5.00. Summer Camp (2) Staff

120. **Wildlife Conservation.** For elementary, junior high school, and senior high school teachers of biological sciences. Discussions and field trips will be concerned with practical studies of wildlife in the intermountain area and the work of the conservation agencies in this field. Content of the course will be especially useful to those teachers taking the education classes listed in general conservation. First session. 3 credits. Daily 2. F302. Sigler

170. **Wildlife Problems.** Individual study and research upon a selected wildlife problem approved by the instructor. Prerequisite: Wildlife 172. (1-5) Staff

270. **Advanced Wildlife Problems.** Research problem chosen, the project outlined and planned, and data collected by the student qualified for investigations in Wildlife Management. (5-15) Staff

272. **Wildlife Thesis.** Analysis, presentation, and interpretation of field data for the graduate thesis. Prerequisite: Wildlife 270. (5-15) Staff

GEOLOGY AND GEOGRAPHY

J. STEWART WILLIAMS, Professor.

1. **Introductory Physical Geology.** Introduction to study of the processes that operate on and in the earth. 5 credits. First session. Daily 7-9, M287. Williams

HISTORY

J. DUNCAN BRITE, Professor; S. GEORGE ELLSWORTH, Assistant Professor.

13a. **United States History.** The colonial period to 1789. 3 credits. First session. Daily 9. L312. Brite

13b. **United States History.** From 1789 to the Civil War. 2 credits. Second session. Daily 9. L312. Ellsworth
SUMMER SESSION

138. History of Russia. From the earliest times to the present. 3 credits. First session. Daily 8. L312.


292. Historical Method and Bibliography. 3 credits. First session. Time to be arranged. L312.

293. Seminar in the Sources and Literature of United States History. 3 credits. Second session. Time to be arranged. L312.

HOME ECONOMICS EDUCATION

HELEN CAWLEY, Associate Professor

MAUDE WILLIAMSON, Visiting Professor

117S or 217S. Current Developments in Home Economics Education. Newer developments in homemaking at the secondary level. Class is planned to serve advanced undergraduate students or graduate students. Students may arrange with instructor to substitute this class for Home Economics Education 120. During the last three weeks of the first session of summer school, Dr. Maude Williamson will serve as consultant. 3 credits. Daily 1. First session.

132S or 232S. Selected Studies in the Field of Home Economics Education. Set up to meet the needs of in-service teachers who are attending summer school to fulfill certification requirements or for those who are interested in doing graduate study. Advanced undergraduates may enroll. 3 credits. Daily 8-10. June 30 to July 18. Williamson

133S or 233S. Workshop for Supervising Teachers. A workshop for supervising teachers in student teaching centers will be held on the campus during the week of July 14 to 18. The purpose will be to assist the teachers in making the student teaching program more effective. 1 1/2 credits. Time arranged. July 14-18. Williamson & Cawley


HORTICULTURE

S. W. EDGECOMBE, Professor


102. Advanced Pomology. Fertilizers, spraying, pruning and training, winter injury, nutrition, fruit setting, thinning, and alternate bearing, water relations. Prerequisites: Bot. 24, 25; Chem. 12 or 121; Agron. 56, Hort. 1 and if possible, Hort. 6. 3 credits. M.T.W.Th.F. 8. Second session. Lab. F. 1. TB8.

110. Orchard Practice. Laboratories to accompany Hort. 102 advanced field work in orchard and small fruit production. Prerequisites: Hort. 1 and if possible, Hort. 6 and 8. 1 credit. Time arranged. First session. TB8.

111. Orchard Practice. Same as 110. 1 credit. Time arranged. Second session. TB8.

153. Seminar. Oral and written reports on research papers and original work by student. 1 credit. Time arranged. First session. TB8.

136. Special Problems. 1-3 credits. 1st or 2nd session. Time arranged. TB13.

204. Research. Original research in pomology or floriculture by graduate students taking a major or minor in horticulture. Registration by permission only. 1-10 credits. Time arranged. First session. TB13.


HOUSEHOLD ADMINISTRATION

GWEN CARLSON, Instructor

149. Home Management. Principles of household management and efficiency. Two recitation periods and one two-hour laboratory period each week. Carlson


160. Special Problems in Household Administration. Consideration of present housing needs and practices affecting housing construction and home ownership. Carlson

180. Household Equipment. Selection, method of operation, and maintenance of equipment used in the home with emphasis on kitchen and laundry equipment. 2 hours. Carlson

INDUSTRIAL EDUCATION

WILLIAM E. MORTIMER, Professor; C. D. McBRIDE, Assistant Professor; BERT V. ALLEN, FRED R. PRYOR, VERN R. BEECHER, Instructors.

Visiting Faculty

WILLIAM J. MICHEELS and A. E. ANDERSON

13. Driver Training. Designed for those who desire to learn to drive an automobile correctly and safely. Includes study of traffic rules and regulations essential to sound driving; physical qualifications and tests of drivers; general mechanics, operation, and servicing of the automobile; highway safety engineering; and actual supervised training in dual-control cars. 2 credits. First session. M.W.F. 3. Lab. arranged. Beecher

102. Instructional Aids. Instruction in the purpose, types, sources, preparation, and proper use of audio and visual aids, including samples, models, charts, graphs, slides, still film, movie film, sound film, and other aids suitable for classroom and auditorium use. Prerequisites: I.E. 107 and 108. 3 credits. First session. Daily. 2-4. MA-222.

107. Principles and Objectives of Industrial Education. Acquaints students with the general philosophy and purpose of Industrial Education, and enables them to understand and appreciate its place in the modern educational program. Students study and compare the general principles and objectives of Industrial Arts Education and Trade and
Industrial Education with those of other educational programs. 3 credits. First session. Daily 9. MA-220.

109. Course of Study Building in Industrial Education. Teaches students to prepare and use a course of study consisting of the outline, analysis, progress charts, lesson plans, instruction sheets, references, tests, and instructional schedule. Each student completes this work for one unit of instruction. 5 credits. First session. Daily 1-3. MA-218.


118. Industrial Safety Education. Accident prevention in industry. A practical course for technical workers, supervisors, and foremen in the fundamentals of plant planning and operation for accident prevention. Special consideration is given to planning safety programs to meet the needs of particular situations as they are experienced by members of the class. 3 credits. First session. Daily 1. MA-220.


154 and 254. Measurements in Industrial Education. Construction and use of the various types of tests and rating scales used in industrial education. Emphasis is placed upon measurable factors in industrial education and the types of tests best suited to this field. The elements of statistical methods necessary for intelligent use of the tests are covered. Prerequisite: PsyCh. 102. 3 credits. First session. Daily 8. MA-219.

160. Problems in Maintaining School Shops and Equipment. Discussion and instruction on school shops and equipment and conditioning of equipment is treated item by item. Particular attention is given to placement, adjustment, and maintenance. Some time will be spent in viewing the latest developments and specifications of new equipment. 3 credits. First session. Daily 1. MA-222.

167. Special Problems in Industrial Education. For qualified students majoring in Industrial Education who wish to do specialized work not covered by other courses. Time and credit arranged. Either session. MA-221.

267. Reading and Conference. Provides for study in advanced and specialized problems in Industrial Education. Problems are selected with approval of the department head. Investigation is carried on under direction of the major professor. Time and credit arranged. Either session. MA-221.

270. Seminar in Industrial Education. Designed to give opportunity for investigation and reporting of individual problems. 2 credits. First session. M.T.W.Th. 10. MA-219.

271. Research and Thesis Writing. Provides for individual work in writing in industrial education. The thesis is written in accordance with standard thesis requirements and under the direction of the major professor. Time and credit arranged. Either session. MA-221.

290, 291, 292. Advanced Studies Under Plan "B." Special library and seminar problems or studies designed to meet requirements for reports under plan "B." 2-3 credits. Either session. Time arranged. MA-221.
JOURNALISM

CARLTON CULMSEE, Professor; JOHN J. STEWART, Assistant Professor.

112. **Writing Feature Articles.** Lectures and practice in preparing feature articles for newspapers and magazines. Analysis of periodicals is made to determine available markets and what editors will buy. Daily 11. First session. 3 credits. M204. Stewart

120. **Journalistic Techniques.** For non-journalism majors. Basic techniques which will aid professional people, extension workers and others to use newspapers, magazines and radio for publicity and information purposes. Daily 8. First session. 3 credits. M204. Stewart

185, 186. **Special Problems.** 4 credits. Second Session. Culmsee

LANDSCAPE ARCHITECTURE

LAVAL S. MORRIS, Professor; KENJI SHIOZAWA, Assistant Professor.

135. **Travel Course.** A major field trip to examine a variety of projects in land planning and design; town plans (with emphasis on residential areas) parks, parkways, cemeteries, airports, home, civic centers and others. This course, starting early in June, will be conducted to the West Coast with stop-overs on the way. It will last two to three weeks and will require a written report shortly after the termination of the trip. Photographs are required to supplement notes and observations. Time and credit arranged. Staff

LIBRARY SCIENCE

KING HENDRICKS, Director of Libraries; JAMES TOLMAN, Assistant Professor; LEONE HARRIS, Instructor

100. **Reference Materials and Bibliography.** Principal reference tools in each field are studied. Reference materials for school, public, and college libraries are included. 3 credits. Daily 10. First session. L312. Tolman

120. **Cataloging and Classification.** Classification of books according to the Dewey decimal system and cataloging instruction adapted primarily to the use of school and public libraries. 3 credits. Daily 9. First session. Moore Library. Harris

150. **School Library Administration.** Theory of school library work with emphasis on demonstration and practical application. 3 credits. Daily 8. First session. L314. Harris


MATHEMATICS

V. H. TINGEY, Professor; MARY NELSON, Assistant Professor.

34. **Introduction to College Algebra.** 3 credits. E304. Daily 8. First session. Tinge


Both sessions.  

Upon request of ten or more students any course listed in the regular catalog may be given in the Summer School Sessions.

**MILITARY AND AIR SCIENCE AND TACTICS**

**DEPARTMENTS OF MILITARY AND AIR SCIENCE AND TACTICS — ADVANCED COURSE SUMMER CAMPS**

Required as part of the Advanced Course in Military and Air Science and Tactics. For further information address this department at Utah State Agricultural College.

Duration: 6 weeks  
Credits: 6  
Dates: 15 June to 31 July (Approx.)  
Pay: $75 per month  
Mileage: $ .05 per mile from home to Camp and return.

**Army Cadets**

- Anti-Aircraft Artillery  
  - Fort Bliss (El Paso, Texas)
- Quartermaster Corps  
  - Fort Lee (Richmond, Virginia)
- Ordnance Corps  
  - Aberdeen Proving Ground (Baltimore, Maryland)
- Signal Corps  
  - Fort Monmouth (Jersey City, New Jersey)
- Chemical Corps  
  - Fort Meade (Baltimore, Maryland)
- Corps of Engineers  
  - Fort Belvoir, Virginia (Washington, D.C.)  
  - Fort Lewis (Seattle, Washington)
- Armored Cavalry  
  - Fort Knox (Louisville, Kentucky)  
  - Camp Hood (Dallas, Texas)
- Infantry  
  - Fort Benning (Columbus, Georgia)  
  - Fort Lewis, Washington
- Tank Destroyers  
  - Camp Hood (Dallas, Texas)

**Air Force Cadets**

The Department of Air Science and Tactics will offer A.S. 13 during the Summer Quarter. 1 credit.

**German**

1. **Elementary German.** 5 credits. Daily 9 and 1. First session. M363.

**Spanish**


**MUSIC**

N. WOODRUFF CHRISTIANSEN, WALTER WELTI, Professors; JOHN PHILLIP DALBY, GEORGE PAHTZ, MISCHA POZNANSKI, Instructors.
FRANK SIMON, JAMES SAMPLE, LAURA BRYANT, Visiting Professors.
MAX DALBY, WALTER H. ROTHAR, Visiting Instructors.

**Instrumental Music**

17s. **String Ensembles.** Offering an opportunity for trios, quartets, and other small units. One credit. Time arranged. M252A.

71. **Development of String Literature.** A historical study of literature for string instruments from Corelli to the present time. Demonstrations of concert numbers. 2½ credits. Daily 8. First session. M252A.

73. **Elementary Harmony.** Diatonic chord progressions and melody writing up to and including seventh chords. Form and analysis. 2½ credits. Daily 10. First session. M252A.

77A. **Concert Band.** All members of the band will register for this course. High school graduates who meet college entrance requirements may receive one hour of college credit upon payment of registration fee. Daily 9 and 3. July 7-18. M32.

77B. **Orchestra.** All members of the orchestra will register for this course. Credit given as for 77A. Daily 11 and 1. July 7-18. M32.

117S. **String Ensembles.** Offering an opportunity for trios, quartets, and other small units. One credit. Time arranged. M252A.


177B. **Concert Orchestra Rehearsal.** Rehearsal of program music for regular concerts. A demonstration of rehearsal methods and drill techniques. An observation course for directors. ½ credit. Daily 11 and 1. July 7-18. M32. **Sample**

189. **Composition.** Open to students who demonstrate a sufficient knowledge of theory to do original composing. 2½ credits. Daily 2. First session. **Dalby**

190. **Music in General Culture.** A non-technical course aiming to increase the enjoyment and understanding of music lovers. Open to all interested persons. 2½ credits. Daily 2. First session. **Moore Library. Christiansen**

204A. **Band Methods and Materials.** Methods and materials for the concert band and the marching. Band organization and administration. Lectures, demonstration, and discussion. 1½ credits. Daily. **Dalby**

204B. **Problems of the Band Director.** Continuation of 204A. 1 credit. Daily 12. July 7-18. M252A. **Simon**


210. **Development of Instrumental Forms.** A historical study of instrumental forms as they developed through various periods. 2½ credits. Daily 9. First session. M252A. **Christiansen**

221. **Woodwind Clinic.** An intensive study of the woodwind family with recommended methods of teaching. 1 credit. Daily 1. July 7-18. M252A. **Max Dalby**

222. **Percussion Clinic.** An intensive study of the percussion group with approved teaching methods. 1 credit. Daily 2. July 7-18. M252A. **Rothaar**

223. **String Instruments and Methods.** A study of the various instruments with approved methods of teaching. 2½ credits. Daily 3. First session. M252A. **Poznanski**


273. **Seminar in Instrumentation and Arranging.** 2½ credits. Time arranged. **Dalby**

300. **Thesis.** Applicant must receive approval of department head. 5 to 10 credits. Time arranged. **Staff**

**Vocal Music**

26s-126s. **High School Chorus.** Open to all high school students. Those who meet college entrance requirements will receive one hour of college credit. Last two weeks of first session. Daily 10 and 2. M207. **Welti**

28s-128s. **Opera Roundtable.** A study and discussion of operatic materials suitable for use in secondary school. Prospective members of the class are encouraged to communicate with the instructor and advanced their recommendations of the particular materials that they would like to have considered. 3 credits. Daily 1. M55. First session. **Welti**

36s-136s. **Summer Chorus.** A recreation class in singing. Open to all Summer School students. The chorus will prepare a program for
presentation in the Summer School assembly series and elsewhere. 1 credit. M.W.F. 12. First four weeks of first session. M207. Welti
131s. Elementary School Music. This course is designed for the individual classroom teacher and will be given to the practical and specific problems of those enrolled with emphasis on the techniques of teaching fundamentals of music, singing, rhythm and appreciation. Prerequisite courses in music are not required. 3 credits. Daily 9. First session. M55. Welti
132s. Vocal Music in the Secondary School. The course will deal with teaching methods and materials for chorus classes in the junior and senior high school. Daily 8. First session. 3 credits. M55. Welti


Private Instruction Courses

Credit 1 or 2 hours. Time arranged. Students receiving 1 hour credit must take six weekly lessons; 2 hours credit, twelve weekly lessons. Fees are listed in first section of catalog.

53S-153S. Vocal Walter Welti, Patience Thatcher, Patience Thatcher, Maxine Greenwood, Maxine Greenwood
60S-160S. Violin N. Woodruff Christiansen, Mischa Poznanski, Mischa Poznanski
62S-182S. Cello George Pahitz, George Pahitz
50S-150S. Piano Lucy L. Christiansen, S. E. Clark, S. E. Clark, Thelma Lundquist, Mrs. Wallace Odd, Jean C. Thatcher, Jeanne T. Welti, Irving Wassermann, Irving Wassermann
66S-166S. Pipe Organ S. E. Clark, S. E. Clark
56S-156S. Brass Instruments John Philip Dalby, Torbensen, John Philip Dalby, Torbensen

PHOTOGRAPHY

BERT V. ALLEN, FRED Pryor, Instructors
51. General Photography. Principles and practices in the fundamentals of general photography. Training in the selection and use of cameras, lenses, meters, films, filters, lights, developers, and accessories. Two lectures, one 3-hour lab. 3 credits. First session. M.T.W.Th. 1, 2-5. TG. Staff
151. Photographic Problems. Special problems in advanced photography. Designed to meet the needs of individual students in solving advanced photographic problems. Two lectures, two-hour labs. 3 credits. First session. M.T.Th. 8, T.Th. 9-12. TG. Staff

PHYSICAL EDUCATION AND RECREATION

H. B. HUNSAKER, Professor; ISRAEL HEATON, Associate Professor; DALE NELSON, Assistant Professor; LOIS DOWNS, RAY WATERS, PAULINE FULLER, Instructors.

Visiting Professors
ARThUR G. MILLER, RACHAEL YOCOM, DELBERT OBERTEUFFER.

Service Courses

First Session
25. Tennis (Elem.) Men and Women. 1 credit. Courts. Fuller
Section 1, Daily at 9
Section 2, Daily at 2 Fuller

Staff
24. **Dance Lab.** 1 credit. W. G. Section 1, Daily at 2.  
52. **Swimming** (Elem.) 1 credit. Pool.  
Section 1, Daily at 1 (Women).  
Section 2, Daily at 2 (Men).  
Section 1, Daily at 10.  
54. **Casting,** 1 credit. G-30. Section 1, Daily 1.  
61. **Archery-Golf.** 1 credit. F.H.  
Section 1, Daily at 8.  
Section 2, Daily at 9.
168. **Social and Square Dance.** 1 credit. M.G.  
Section 1, Daily at 9.

**Second Session**

25. **Tennis** (Elem.) Men and Women. 1 credit. Courts.  
Section 1, Daily at 8.  
52. **Swimming** (Elem.) Men and Women. 1 credit. Pool.  
Section 1, Daily at 9.  
73. **Golf** (Elem.) Men and Women. 1 credit. Course.  
Section 1, Daily 10-12.

**Professional Courses**

**First Session**

55. **First Aid and Safety.** Standard American National Red Cross  
course in first aid with emphasis on practical use of the knowledge as  
applied to everyday life in various occupations. Detailed demonstra­  
tions and practice. American Red Cross First Aid certificates may be  
obtained by students who pass a satisfactory examination. 3 credits.  
Daily at 9.

112. **Physical Education Curriculum for Elementary Schools.** A course  
designed for teachers desiring practical experience and knowledge of  
Physical Education activities for the elementary school grades. 2 credits.  
Daily at 1, June 10 to July 5.  
112B. **Physical Education Curriculum for Elementary Schools.** A  
course designed to give the theory of Physical Education for the Ele­  
mentary grades, compare this with current teaching techniques and  
practices. Recommended for elementary school teachers and super­  
145. **Alcoholism and Education.** A study of the alcohol problem con­  
sidered from the physiological, psychological, sociological, educational,  
historical, and legal aspects. The development of a correlated attack on  
the problem is emphasized. 3 credits. Daily at 8.

153. **Leadership in Dance.** An advanced class in dance leadership  
to meet the needs of students who expect to teach social or square  
dancing in schools or churches. One quarter of social or square dancing  
should be taken as a prerequisite. Emphasis on methods of teaching  
group dancing and creation of original routines. A syllabus is required.  
2 credits. Daily 1.

150. **Dance Technique.** Designed to teach techniques of a variety  
of dance types. Dances taught will be suitable for teaching purposes  
as well as for program material. 2 credits. Daily 10.

157. **Field Work in Recreation.** (Prerequisite approval of department  
head) This course is designed to give practical experience in conduct­  
ing recreational programs at playgrounds and campus under the super­  
vision of the college recreation staff and the director of the program.
to which the individual is assigned. Students will be expected to plan and conduct programs in a variety of activities applying principles, methods, and the techniques gained in his prerequisite work. 4 credits. Time arranged.

160. Techniques of Teaching Sports. (Men and Women) The class is designed to give methods and techniques in teaching the following co-educational (girls and boys) activities. Badminton, basketball, volleyball, skiing, speedball, and others as suggested by the class. 2 credits. Daily 1.

174. Life Saving and Water Safety. Prerequisite: Permission of the instructor. 2 credits. Daily 3.

187. Literature and Research in Physical Education. The course is designed to clarify the techniques of research, and the use of statistics in research. 3 credits. Daily 8.

193. Leadership Social Recreation. Deals with the principles and techniques of leadership in social recreation activities for the home, school, and community; methods of promoting, organizing, and directing social games, social mixers; community outings, hikes, picnics, and parties. Students will be offered opportunities for practical experience in leading various recreational activities. Men and Women. 2 credits. Daily 2.

195-295. Problems in Physical Education. A course designed for graduate students. The course will deal with techniques of research, recognition of research problems, and a study of current research literature. 3 credits. Daily 9.

250. Reading and Conference. A course providing for individual directed study in Physical Education. Time and credit arranged.

271. Research and Thesis Writing. Provides for individual work in thesis writing with the necessary guidance and criticism. Time and credit arranged.

Second Session

199-299. Seminar in Physical Education. A course designed for students who wish to do individual study on selected problems. It gives an opportunity for class reports and discussion.

271. Research and Thesis Writing. Provides for individual work in thesis writing with the necessary guidance and criticism. Time and credit arranged.

157. Field Work in Recreation. (Prerequisite: approval of department head.) This course is designed to give practical experience in conducting recreational programs at playgrounds and camps under the supervision of the college recreation staff and the director of the program to which the individual is assigned. Students will be expected to plan and conduct programs in a variety of activities applying principles, methods, and techniques gained in his prerequisite work. 4 credits. Time arranged.


182-282. Materials and Methods in Physical Education. A course combining Theory and practice of Physical Education for grades 1-12. Special emphasis will be given to a well-balanced Physical Education program for the elementary grades. 3 credits. Daily 9.
250. Reading and Conference. A course providing for individual directed study in Physical Education. Time and credit arranged. Hunsaker

156. Curriculum in Physical Education. A course designed to study the Physical Education curriculum grade 1-12 giving consideration to purpose and content with special consideration given to methods and techniques. 3 credits. Daily 11. Miller

PHYSICS

ROLLAND PERRY, Professor; JAY O. JENSEN, Assistant Professor.


20. Mechanics and Molecular Physics. 5 credits. Both sessions. Daily 8, Lab. M.W. 1 to 3 or 3 to 5. Room W108. Staff

Any other course upon sufficient demand.

PHYSIOLOGY

DATUS M. HAMMOND, CLYDE BIDDULPH, Professors; THOMAS L. BAHLER, Assistant Professor.

4. General Physiology. For the student who desires a survey of physiology and who is not planning advanced intensive study in the field. It deals with the functioning of the human body with emphasis upon broad general biological principles. Second session. 5 credits. Daily 8 to 10. Room C212. Staff

160. Special Problems, Physiology. Special investigations in physiology are carried out in this laboratory course. Open to students who have taken physiology 121, 122, or who have been granted special permission. Either or both sessions. 2 to 5 credits. Room C20. Staff

200. Special Problems, Physiology. Similar to 160 but for graduate students. Either or both sessions. Credit arranged. Room C20. Staff

260. Research and Thesis. Research connected with problem undertaken for partial fulfillment of requirement for Master of Science degree. Either or both sessions. Time and credit to be arranged. Room C20. Staff

POLITICAL SCIENCE

M. R. MERRILL, Professor; M. JUDD HARMON, Instructor.

CLAYTON E. WHIPPLE, GLENN L. TAGGART, Visiting Professors.

101. American Foreign Policy. The place of the United States in the family of nations as affected by our traditions, interests, and interpretations of international affairs. First session. 3 credits. Daily 9. M356. Merrill

101A. American Foreign Policy. The basic material of this course is the background and operation of the Point 4 program. Attention is also given to the future possibilities of this type of world cooperation. Second three weeks, June 30-July 18. 1½ credits. Daily 10. Whipple

101B. The Philosophy and Operations of the Point IV Program. The history and background, legislation, etc., of the Point IV program; also analyses of its operations in various parts of the world. 1½ credits. First three weeks of first session. Daily at 10. Taggart
119. **American Political Thought.** The development of American ideas concerning the State and political authority from colonial times to the present. The nature and purpose, modes of organizing and controlling political action in terms of historical and social origins; and applicability to modern problems. Second sessions. 2 credits. Daily 9. M356. Harmon


180. **Current Political Problems.** A series designed for upper division students. Students may take any quarter without the preceding quarter or quarters, with the consent of the instructor. First session. 3 credits. Daily 10. M356.

182. **The Balkans.** A brief survey of the Balkan States with major emphasis placed on present political and economic problems of the area. Second three weeks, June 30-July 18. 1 1/2 credits. Daily 8. Whipple

186. **Point IV in Latin America.** A consideration of the Latin American Countries with particular reference to the operation of the Point IV program. 1 1/2 credits. First three weeks of first session. Daily at 8. Taggart

180. **Current Political Problems.** For upper division students. Emphasis on the 1952 elections, major world events in the political area, and American foreign policy. Merrill

**POULTRY HUSBANDRY**

C. I. DRAPER, Professor; A. B. STEPHENSON, Associate Professor; J. O. ANDERSON, Assistant Professor.

1. **General Poultry.** Breeds, judging, incubation, brooding, feeding, marketing, designed to meet the needs of the students wishing a general knowledge of the poultry industry and the problems of production, and a foundation upon which other courses are built. 3 credits. Daily at 10. First session. AH-305. Staff

101. **Poultry Production.** Poultry production problems, breeds, judging, selection, feeding and management. 3 credits. Daily at 10. First session. AH-303. Staff

107. **Poultry Feeds and Feeding.** A study of nutrition problems, the feeds and methods of feeding. Developing rations for special needs and for farm mixing. Daily at 11. Extra hour arranged. Second session. AH-303. Prerequisite: Poultry I. Staff

**PSYCHOLOGY**

ARDEN FRANDSEN, Professor; D. R. STONE, Associate Professor; ROBERT L. EGBERT, Assistant Professor.

102. **Educational Psychology.** A professional course for prospective high school teachers intended to increase understanding of personality and to develop greater insight into conditions for effective learning. Applications to development in adolescence of both normal and deviate personalities, to provisions for individual differences, and to learning junior and senior high school subjects are emphasized. Prerequisite: General Psychology. 5 credits. Both sessions. M361. Daily 10. Stone

105. **Child Psychology.** The roles of maturation, learning, and environmental conditions in the motor, mental, social and emotional de-
velopment of children from birth to adolescence. Generalizations with respect to individual differences, emotions, motivation, how children learn, observe, and think are applied to understanding and guiding children's behavior in home, school, and community. Prerequisite: General Psychology. 3 credits. First session. M281. Daily 9. Frandsen

108 or 208. Educational Psychology for Elementary School Teachers. A study, from the points of view of psychological theory and research, of the aims, selection and sequence of content, methods of teaching, provisions for individual differences, and measurement of outcomes in the elementary school curriculum. Tool subjects are emphasized. For students at the graduate level, these may be developed. Prerequisite: General Psychology. 2 credits. Daily 10. First session. M281.

Frandsen

112. Applications of Statistics to Education and Psychology. An elementary study of the statistical procedures used in handling test scores in the schools and of the concepts needed to read current educational and psychological literature. First session. 3 credits. M281. Daily 1.

Stone

182 or 282. Clinical Psychology: Individual Diagnostic Intelligence Testing. Theory and techniques of individual diagnostic intelligence testing, including practice in the administration of (a) the Stanford-Binet and other individual tests especially suited to psychological examination of children and (b) the Wechsler-Bellevue and related tests for use with adolescents and adults. How to interpret test data so they will yield significant information on level of general ability, differential abilities, work methods, and on personality and adjustment are studied. Prerequisites: General Psychology and Elementary Statistics. For seniors or graduate students. 5 credits. 2nd session. M281. Daily 8-10.

Frandsen

183 or 283. Theory and Practice of Counseling and Psychotherapy. In educational and vocational guidance, in improving school achievement and worker efficiency, and in treating problem of personal and social maladjustments, the uses of the following procedures are studied: Non-directive counseling; directed problem-solving interviewing; giving advice, assurance, persuasion, and information; and of controlled family, school, club or camp, community, and institutional environments. Prerequisite: General Psychology. First session. 3 credits. Daily 8. M359.

Egbert

161. Social Psychology. A study of the acquisition of personality or "self." The effect of society on the individual, and the individual's reciprocal effect on society is considered in terms of such topics as propaganda, institutional behavior, "social" neuroses, morale, leadership, membership, etc. Prerequisite: General Psychology. Second session. 3 credits. Daily 1. M281.

Stone

203. Psychology of Adolescence. The physical, intellectual, emotional, social, and cultural characteristics of adolescence, the processes of development and the factors affecting development, and the special problems of adjustments in adolescence. Prerequisite, Educational Psychology. Three credits. First session. Daily 10. M280. Egbert

SECRETARIAL SCIENCE

V. D. GARDNER, L. MARK NEUBERGER, Professors; INA DOTY, Assistant Professor; FLORIS OLSEN, Instructor; R. R. BROUG, Special Lecturer.

65. Indexing and Filing. Drill and practice in alphabetic, numeric, triple check automatic, subject, decimal, geographic, and soundex methods of filing. Indexing, coding, and filing of letters, cards, blueprints,

79. **Shorthand Review.** For students who have had previous training in shorthand. Includes a review of the theory of Gregg shorthand and the development of new vocabulary. First session. 3 credits. Daily 10. M353.

86. **First-Quarter Typewriting.** For students who have had no previous training in typewriting. Designed to develop a thorough knowledge of the keyboard. Special attention to the developing of typewriting for personal use. First session. 1 credit. Daily 8. M306.


94. **Burroughs Calculator.** Practice in addition, multiplication, subtraction, and division on Burroughs calculators and the application of the machine to various business computations such as percentages, discounts, prorating, decimal equivalents, and constants. Second session. 2 credits. Daily 10. M311.


179. **Methods of Teaching, Typewriting and Bookkeeping.** Recent developments and practices in the teaching of typewriting and bookkeeping. Analysis of objectives, laws of learning, organization of material, texts, standards of achievement, and methods of presentation. First session. 3 credits. Daily 10. M308.

189. **Practicum in Business Education.** Provides opportunity for planning and development of practical or creative projects in business education. Experienced teachers and students, who are registered for teacher training, are encouraged to build projects around actual school situations. First session. 2 credits. Time arranged. M324.

**SOCIAL WORK**

DON C. CARTER, Assistant Professor

165. **Dynamics of Behavior.** An analysis of behavior causation, with emphasis upon the influence of early experiences upon attitudes and behavior in adolescence and maturity. 3 credits. Daily 9. First session. M354.

178. **Adolescence.** The social behavior of the adolescent in relation to the groups, institutions and social structure in which he lives. 3 credits. Daily 8. First session. M354.
SUMMER SESSION

SOCIOLOGY

THEREL R. BLACK, WILLIAM DEHART, C. JAY SKIDMORE, 
Assistant Professors.

70. Introductory Sociology. Offered for students in all schools and 
departments of the college. Emphasis is placed upon developing the 
student's understanding of the social world about him, and how his 
social experience contributes to his personal development. Given as 
Soc. 70a in first session and as Soc. 70b in second session. Students 
desiring 5 hours credit are to take both sessions. Those desiring fewer 
credits may take either first session or second session. Soc. 10 or 70 is 
a prerequisite for all Upper Division Classes.

130. Introduction to Cultural Anthropology. Treatment of the atti-
tudes, ideas, behavior, basic personality organization, and material re-
results of selected primitive and contemporary cultures. First session.

141. Rural Community Organization and Leadership. Analysis of 
forces and procedures at work in developing community organization, 
with special emphasis on techniques of training to help make the com-
community more effective. Second session. 3 credits. Daily 10. 1 hour ar-
ranged. M353.

160. Family Relations. The social-emotional development of the 
child in the family. Marital adjustment; social-culture difference in 
family behavior; problems; ideological considerations. First session.

162-262. Instructional Problems in Family Life Education. Methods, 
materials and content for teachers dealing with the social emotional 
and cultural phases of Family Life Education. First session. 3 credits.

SPEECH AND DRAMA

CHESTER J. MYERS*, Professor, REX E. ROBINSON; FLOYD T. MOR-
GAN; HAROLD I. HANSEN, Associate Professors; BURRELL F. HANSEN, 
Assistant Professor; GWENDELLA THORNLEY, GEORGE TANNER, 
Instructors.

1s. Public Speaking. Elementary training in Public Speaking. In-
cludes training in daily speaking situations, voice improvement. Stu-
dents attend class two hours each day, 8 to 10. 5 hrs. credit. Second 
session. M204.

5s. Extempore Speech. Designed to meet the specific needs of pro-
fessional people in the practice of their professions. Basic principles of 
effective speaking, with emphasis on composition and delivery of the 
forms of address of greatest interest to those for whom the course is 
provided. 3 credits. Daily 10. First session. M204.

p12-p112. Private Instruction. Individual attention given in private 
to particular needs of the student in an effort to eliminate personal 
defects, develop skill, and solve individual speech training and to all 
those who are majoring in speech. Special fee. Time and credit ar-
ranged.

18s-118s. Story Telling. The story as an educational factor, analysis 
and classification of typical stories with reference to each period of the 
child's development. Study of sources, adaptation of material, and

*On leave
actual practice in storytelling. Consideration is given to stories of
western pioneer life. The work is designed to meet the needs of stu-
dent teacher, recreational leader, church activity leader, librarian, and

Thornley

68-166. Practical Theatre Production. Designed for teachers, MIA
directors, recreation leaders, and Speech majors and minors. A course
covering the problems of play selection for high school and community,
casting, acting, directing, scenery, lighting, costume, make-up, and all
phases of theatre production. Students will participate in the produc-
tion of two Utah State Theatre summer presentations. Lecture and
laboratory approach will be utilized. Students may register for 2 to 9
credit hours. Class will meet daily at 1, and the remaining hours by
arrangement with the instructors. 2 to 9 credits. Daily 1, and by ar-

H. Hansen & Morgan

73-173. Speech Clinic. Application and discussion of methods ap-
plied to speech correction in the clinic. Training and practice through
the supervised handling of selected cases. Students who have had one
quarter of experience are allowed to participate in extension clinics.
Prerequisite or corequisite, Speech 167. Consult the instructor for per-
mission to register. Time and credit arranged. First session. Staff

82a. Radio Speech. Analysis and development of the speech skills
and speech forms as applied to radio. Development of acceptable stand-
ards of voice and articulation for radio presentation is emphasized.
Effective organization and presentation of the various speech types uti-
lized on the air—announcements, talks, program continuities, interview
round-tables are included. 3 credits. Daily 9. First session.

B. Hansen

171. Speech Pathology. Advanced course in speech correction.
Speech involvements of pathologies of the larynx, mouth, ears, and
brain. Disorders such as pathological voice defects, cleft palate, dif-
ficulties in hearing and deafness, aphasia, and spastic speech receive

Staff

182. Radio Newscasting and Writing. Offered for credit in both
Speech and Journalism departments. Study and application of princi-
ples of editing, organizing, writing and presenting news by radio.
Three periods a week devoted to discussion and practice in writing and
arrangement; two periods a week meetings are held in the studios for
analysis and presentation of news over the microphone. 3 credits. Daily
10. First session. M204.

B. Hansen

190. Problems in Speech and Theatre. Especially selected work,
individually assigned, handled, and directed in consultation with the
student. Special speech problems of merit and of mutual interest to
student and instructor are investigated and reported upon in this course.
Consult the instructor for permission to register. Credit and time ar-
ranged. Both sessions.

Staff

Research problems. (2F or W) Either session. Time and credit arranged.

Staff

201. Thesis. Prerequisite: Graduate standing. Either session. Time
and credit arranged.

Staff

202. Seminar in Theatre. Prerequisite: Graduate standing. First
session. Time and credit arranged. H. Hansen, Morgan & Staff

203. Seminar in Public Speaking. Prerequisite: Graduate standing.
Second session. Time and credit arranged. Robinson and Staff

204. Seminar in Interpretation. Prerequisite: Graduate standing.
First session. Time and credit arranged. Thornley and Staff

206. Seminar in Radio. Prerequisite: graduate standing. Time and
credit arranged. First session.

B. Hansen and Staff
TOOL ENGINEERING

FREDERICK PREATOR, Professor; W. KARL SOMERS, Assistant Professor.

51. Machine Tools. Training in the use of hand tools, and in bench work and tool sharpening, together with elementary training on drill press and engine lathe. Tools and machine parts are made that give practice in the operations essential to machine shop work. Included are assignments of reading on machine work subjects, and application of mathematics to machine work. 3 or 5 credits. Daily 1-4. A103. Both sessions.

Note: Upon request of ten or more students, any of the courses listed in the regular catalog will be given.

VEGETABLE CROPS

LEONARD H. POLLARD, Professor

160. Special Problems. Time and credit arranged. Both session.

210. Research and Thesis. Original research on vegetable crops and seed production or breeding problem for graduate students taking a major or minor in vegetable crops. One or more credits. Both sessions. AH 310.

215. Special Problems. Time and credit arranged. Both sessions.

VETERINARY SCIENCE

WAYNE BINNS, Professor; M. L. MINER, Associate Professor.

50. Artificial Insemination of Cattle. Outlined for training students in artificial insemination of cattle and to train technicians for doing insemination in the Artificial Breeding Associations in the state. Fulfills the requirements for the qualifications necessary for the student to be eligible to take the State Board Examination. 3 credits. Daily 8 to 5. June 2-16. First session. AH 207.

200. Special Problems. Open to students majoring in some related field and who wish to study some particular phase of a disease in animals. Both sessions. Time and credit arranged. Rm. VS.

210. Research. Outlining and conducting research on animal diseases. Both session. Time and credit arranged. Rm. VS.

WELDING

ANTON B. KEMP, Instructor; RAWSON CHILD, Assistant Instructor.

97. Acetylene Welding. 3 credits. Time arranged. First session.

WOODWORK AND BUILDING CONSTRUCTION

CHARLES N. MERKLEY, Associate Professor; D. H. SWENSON, Instructor.

61, 62, 63. Joinery and Millwork. Basic training in hand tool and machine operations for students in Building Construction or for those who desire a working knowledge in wood for their own needs. The
courses include a thorough study in the proper use, care and sharpening of hand tools, machine processes, safety measures, care and repair of machines, and sharpening of machine cutters. Assigned reading and application of mathematics to woodwork problems are integral parts of the course. 2-5 credits, first session. 2-4 credits, second session. Daily 10-1, 2-5, A162, A116, A166. **Merkley & Swenson**

67s. **Woodwork for Ag. Students.** Care and use of hand tools as well as the woodworking machines commonly found in Farm Mechanics shops. Projects in farm woodwork are built in connection with the course. Credit arranged. First session. Daily 7-10. A162. **Merkley**

171, 172, 173. **Cabinet Work.** The design and construction of furniture and cabinets including a study of the woods suitable for furniture and cabinet building, wood turning, inlaying, wood carving, and types of wood finishing. Projects are built in fine furniture and cabinets which include inlaying, overlaying, and carving. Prerequisites. W.W. 61, 62, 63. 2-5 credits, first session. 2-4 credits, second session. Daily 10-1. A116, A162, A166. **Merkley & Swenson**

**ZOOLOGY**

DATUS M. HAMMOND, Professor; M. H. GUNNELL, Assistant Professor.

1. **Principles of Biology.** Basic principles of life as illustrated in plants and animals, with emphasis on concepts of fundamental importance, including organization of living things, energy relationships, growth, relation to environment, kinds of living things, reproduction, development, inheritance, and evolution. For lower division students, except those who elect Botany 24, 25, or Zoology 2 or 3 and 4. 5 credits. Daily 7-9. First session. M-225. **Gunnell**

131 or 231. **Organic Evolution.** A critical study of the facts of evolution as obtained from a consideration of comparative anatomy, embryology, geographical distribution, blood tests, and other fields upon which the doctrine of evolution is based. Factors causing evolution are considered and discussions undertaken on other bodies of related thought. Prerequisite: Zoology 1 or 2, or 3 and 4. 111 or 112 recommended. 3 credits. Daily 10. First session. M225. **Gunnell**

201. **Special Problems, Zoology.** The student who wishes to engage in some line of original research and is qualified to do so may elect and study some topic of Zoology. Open to undergraduates only by special arrangement with the department. Either or both sessions. Credit and time arranged. **Staff**

240. **Research and Thesis, Zoology.** Research connected with problem undertaken for partial fulfillment of requirement for Master of Science degree. Either or both sessions. Credit and time arranged. **Staff**
ABOUT THE VISITING FACULTY

A. E. ANDERSON is Director of Industrial Arts Education in the Division of Vocational Education of the Utah State Department of Public Instruction. After completing his Bachelor's Degree in Industrial Arts Education at Utah State Agricultural College, he taught at West High School for several years.

J. ROMAN ANDRUS is a graduate of B.Y.U. Art Department and Teachers College, Columbia, where he received the M.A. A member of B.Y.U. art faculty for a number of years, and now Professor of Art there, a well known painter and exhibitor, he received the purchase award at the Utah State Institute of Fine Arts annual exhibition. He is a member of the Curriculum Committee on Art for the Utah State Department of Public Instruction.

MARY MATILDA BAILEY is editorial consultant for the American Book Company and co-author of a series of textbooks in language arts for grades 1-12. She obtained her M.A. at Ohio State University and her Ph.D. at the University of Pittsburgh. She has taught at all levels of the school system, and in recent years has conducted numerous workshops in the teaching of reading and English in different parts of the country.

WILLIAM HERBERT BARTLETT is a graduate of the U.S.A.C. Art Department and has done advanced work at N.Y. University. He has served as Supervisor of Jordan District for many years, and has given many lectures and demonstrations to teacher groups on art topics of timely interest. He has served as a faculty member at summer sessions at B.Y.U. and U.S.A.C. and is a member of the Curriculum Committee on Art for the Utah State Department of Public Instruction.

PAUL BONIFAS is Professor of Art, University of Washington. His background and training is in Paris, France, where he specialized in ceramics and pottery.
THOMAS H. BROAD is Principal of the Daniel Webster High School, Tulsa, Okla. His Ph.D. is from Oklahoma A. & M. Active in North Central Association of Secondary Schools and Colleges, he is on their executive committee and chairman of their Commission on Research and Service. He took part in studies leading to the 1950 revision of the Evaluative Criteria for secondary schools, and has been consultant for workshops in secondary education at ten American universities, including Columbia, Denver, Chicago and others.

LAURA BRYANT is teacher of vocal music and past supervisor of public school music at Ithaca, N.Y. She is author of a series of books used in the teaching of music in public schools and has been active in many fields of professional music in the United States.

FRANCES CLARK and LOUISE GOSS are in charge of a Workshop in Piano at Kalamazoo, Michigan. Students of Guy Maier, they are in demand to conduct short workshops in piano education in different parts of the country. Miss Clark is on the music faculty of Kalamazoo College, and Miss Goss holds a similar position in the University of Michigan.

SHIRLEY COOPER is well known to educators of the intermountain area, having been in this region many times as consultant for regional and state conferences on rural education. His Ph.D. is from Cornell. Director of Rural Service for the N.E.A. for many years, he recently became Assistant Executive Secretary of the American Association of School Administrators.

HELEN CRANE is supervisor of the foods section in the Los Angeles City school system. She will be consultant for the school lunch workers conference here at the College this summer.

T. JAMES CRAWFORD is Professor of Business at the University of Pittsburgh. He is co-author of the text *20th Century Typewriting*. He has taught at Indiana University and the University of North Carolina.
MAX F. DALBY is instructor in instrumental music at Ogden High School. His A.B. is from B.Y.U. and M.A. from San Diego State College. For three years he was supervisor of music in private schools at San Diego, preceding which he was first chair clarinetist with the Utah State Symphony.

PAUL L. DENGLER was born and educated in Austria and has his Ph.D. from the University of Vienna. He was founder and for many years director of the Austro-American Institute of Education. For six different periods before the war he was a Carnegie visiting professor to institutions in this country, coming finally for a longer stay as Professor of Education, University of Kansas City. He was a member of the staff at U.S.A.C. last summer and has spent the intervening months in Mexico and South America, where he taught at the University of Chile.

LOVELLE DOWNING is Supervisor of Elementary Education in the Modesto, California school system. Before going there she held similar positions in Idaho. Her M.A. is from Ohio State University. She has taught in summer schools in California and is returning to the College for a second appointment after being here in the summer of 1951.

TED GORDON is instructor in English at the East Los Angeles Junior College and has been a visiting lecturer for the University of Southern California since 1943. His M.A. in English is from U.S.C. and his Doctor's Degree is from the same institution in Education. He has been particularly active in the development of curriculum guides in secondary education, and in planning for extra curricular activities. He edits a regular section of the Junior Senior High School Clearing House.
DOUGLAS M. KELLEY received his B.A. and M.D. degrees from the University of California. Until 1938 he was Assistant in Psychiatry at the University of California Hospital. In 1941 he received the Doctorate in Medical Science from Columbia University and was appointed Instructor in Psychiatry at the University of California Medical School as well as Director of the San Francisco City and County Psychopathic Hospital. During the war Dr. Kelley served as a Lieutenant Colonel in the Army Medical Corps. He was chief consulting psychologist and acting consulting psychiatrist of the European Theater of Operations before being appointed psychiatrist to the Nuremberg Jail. He examined the minds of the leading German war criminals and incorporated his findings in the thought-provoking book "22 Cells in Nuremberg."

MILDRED S. KIEFER is consultant in elementary education for the Phoenix, Arizona school system. Her M.A. is from Iowa State University. She has conducted workshops in conservation education in Arizona and New Mexico. She has been a member of the faculty of Arizona Teachers College at Flagstaff, and last summer taught at the University of Maine.

WILLIAM J. MICHEELS is Associate Professor of Trade and Industrial Education at the University of Minnesota, from which he received his Ph.D. in 1941. During the war he worked in the Washington Office of the Personnel Training section, Division of Transport Personnel; and in the fall of 1949 he served as a visiting expert in Germany for the War and State Departments, working on reconstruction of the German educational system. He is co-author of a recent book, Measuring Educational Achievement. Well known to Utah educators, he taught at U.S.A.C. in the summer of 1950.

ARTHUR G. MILLER is Assistant Professor of Physical Education at Boston University where he received his Doctor's Degree in 1948. He has taught in public schools in New England and served as a recreation camp director there. During the war years he was in the U. S. Navy. The summer of 1952 is his second appointment at U.S.A.C.
BRANCH McCracken is head basketball coach at Indiana and considered one of the top basketball coaches in the Big Ten Conference, having one NCAA Championship. He was coach at Ball State College in Indiana before coming to Indiana in 1938. Last year Indiana finished second to the Illinois champions.

CLARENCE L. (BIGGIE) MUNN is head football coach at Michigan State. He was assistant to Bernie Bierman at Minnesota 1932-34 and later moved to be Fritz Chrissler's right hand man at Michigan. He was once named Coach of the Year for the nation, and was recently given guard honors on Christy Walsh's 25-year All-American team. His team won all its games the past season, following which Munn coached the East team to a victory over West at the Shrine game in San Francisco.

DELBERT NAPPER is a graduate of the U.S.A.C. Art Department and received his Master's Degree from U.S.A.C. in Education. Mr. Napper is a member of the Art Curriculum Committee and Supervisor of Art in Logan City Schools since 1945. He is recognized as a capable designer and an enthusiastic teacher with an excellent philosophy of the place of art in the education of the child.

AMOS E. NEYHART is Professor of Industrial Education and Administrative Head of the Institute of Public Safety at Pennsylvania State College. He is recognized as one of the pioneers of the drivers' training education movement in the United States and serves as Consultant on Road Training for American Automobile Association.

DELBERT OBERTEUFFER is Professor of Physical Education at Ohio State University. His A.B. is from Oregon and his M.A. and Ph.D. from Columbia. Author of textbooks in health education and physical education, he has taught at the Universities of Oregon, Washington, and Columbia in addition to his present assignment. Utah teachers were enthusiastic about him when he came to the U.E.A. convention last fall to address sessions of the departments of health and physical education.

WALTER H. ROTHAAAR is a highly superior musician whose specialty is percussion instruments. He heads this division in the Utah State Symphony and is known particularly for his precise skills and interpretation with the timpani.
JAMES SAMPLE is Conductor and Musical Director of the Portland Symphony Orchestra. A native American, he was educated in Austria and France. He has conducted symphony orchestras and operas in different parts of this country and in Europe. Before coming to his present position, he was associate conductor of the San Francisco Symphony and has been heard over the air many times on the "Standard Hour." Utah residents will remember him as a guest conductor of the Utah Symphony during the season of 1945-46.

FRANK SIMON gained fame as a cornetist and later associate conductor with John Philip Sousa. At present he is Head of the Band Department, Cincinnati Conservatory of Music, and is a past president of the American Bandmasters Association. For ten years he directed the Armco Band which broadcasted regularly over N.B.C. In great demand as a teacher in music clinics, he enjoys working with young people, and returns to the U.S.A.C. after being on the staff for the music camp last summer.

EDITH ROACH SYNDER is Principal of the Webster School at Pontiac, Michigan, and a national consultant in music education. Active in the Association for Childhood Education, she is a contributor to their publications. She has taught in summer schools at Michigan, Michigan State and Wayne Universities. Her school is known nationally for its significant contributions to the development of the elementary school curriculum.

ALEXANDER J. STODDARD is one of the nation's best known school administrators. His A.M. is from Columbia and Ed.D. from Rhode Island. He is the holder of several honorary degrees. At present Superintendent of Schools at Los Angeles, he held similar positions at Denver and Philadelphia. President of the American Association of School Administrators in 1935, he was Chairman of the Educational Policies Commission from 1936 to 1946. Among his many other educational assignments, he was a member of the educational mission to Japan and is on the national council for UNESCO.
SIDNEY S. SUTHERLAND is Professor of Agricultural Education at the University of California. His B.S. is from Montana State College and his M.S. and Ph.D. from Iowa State College. During 1930 he taught at Montana State; then joined the California State Department of Education in 1931. Author of numerous handbooks, plan books and pamphlets in agricultural education and the problem method of teaching, he has been consultant for conferences in agricultural education in many different states.

GLENN L. TAGGART is Assistant Chief of the Technical Collaboration Branch in the Office of Foreign Agricultural Relations, U. S. Department of Agriculture and is a graduate of Utah State Agricultural College. His Ph.D. in rural sociology and economics is from Wisconsin. Since joining the Department of Agriculture, he has at different times represented the government in technical capacity in Mexico, South America, the Philippines, and Asia.

CLAYTON E. WHIPPLE is with the Department of State at Washington, D.C. as Chief of the Food and Natural Resources Division of the Technical Cooperation Administration. From 1929 to 1940 he was with the Near East Foundation in the Balkans and was more recently with the American Mission Aid to Greece in 1947 and 1948. He holds the B.S. and M.S. degrees; and an honorary Doctor’s Degree from the University of Salonika, Greece.

MAUDE WILLIAMSON is Professor of Home Economics Education at the University of Florida. Her M.A. is from Columbia and her Ed.D. from Stanford. Considered the “Dean” of homemaking educators in the United States, she went to Japan in 1949 to spend two years in helping to reorganize educational services there. She has been vice-president of the American Vocational Association and has conducted workshops and taught summer classes in many institutions. She is a joint author of two textbooks. Well known in the intermountain area, she was Professor of Homemaking Education at Colorado A. & M. from 1934 to 1949.

RACHAEL D. YOCUM was formerly on the staff of the Department of Physical Education here at the College. Her Ph.D. is from New York University where she specialized in tests and measurements in Physical Education and in curriculum building for the secondary schools. For the past three years she has been a member of the faculty at N.Y.U. but more recently has become a consultant in TV Education.
APPLICATION FOR SUMMER SESSION HOUSING RESERVATION

Utah State Agricultural College

Instructions: Print or use typewriter. A deposit of $5.00 for dormitory or $10.00 for apartment accommodations must accompany this application if you wish a place reserved. In the event that you are unable to come, notify us by June 10 and a refund will be granted.

Applicant's full name __________________________ Sex ______ Date ______

Present Address __________________________ Street City State Phone

Applicant's year in college ______ Age ______ Marital Status ______

If married state number in family group ______

Dates of period for which applying: From ______ 19 ______ to ______ 19 ______

Housing desired: 1st choice ______ 2nd ______ 3rd ______

Check for $5 or $10 enclosed ______ Money order enclosed ______

I am planning to attend and will send deposit later.

I plan to arrive on (date) ____________________

Mail to: College Housing Manager
Utah State Agricultural College
Logan, Utah

Applicant's signature ________________________

Registration procedures at the College are made more convenient for all concerned if the student submits an application in advance. Please send in the form below at your earliest convenience.

U.S.A.C. REQUEST FOR REGISTRATION MATERIALS

To the Registrar: Date ______

I am tentatively planning to enroll in the 1952 Summer Quarter. Please prepare registration materials for me. I expect to attend the session beginning ______

Print Name __________________________ Last ______ First ______ Middle ______

Home Address __________________________ Street No. City County State Phone

Previously enrolled at U.S.A.C.? Yes [ ] No [ ]; Residence [ ]

Extension [ ]; Correspondence [ ];

First quarter and year ______ Last quarter and year ______

Student No., if assigned ______ Male [ ]; Female [ ];

Single [ ]; Married [ ]; Citizen of U.S.A.? Yes [ ]; No [ ];

Date of birth ______ High school last attended ______

City and State __________________________

Other colleges attended, with location ______
Recreation Events and Lyceums

The Summer School offers a rich and varied program of recreation. A special Recreation Committee, cooperating with various departments, sponsors many activities both on and off the campus including evening lyceum programs. Events will be announced in the weekly edition of Student Life. The following major activities are announced in advance so that students can plan accordingly:

July 11—Jerald Sheppard, Tenor.
June 13—The Paganini Quartet.
June 16, 17, 18—Theatre Workshop production, “Death of A Salesman.”
June 19—Maurice Matteson, Folk Musician.
June 21—Trips to Bird Refuge and to Minnetonka Caves near Bear Lake.
June 26—Old Juniper Hike and party.
June 30-July 2—Theatre Workshop production.
July 3-7—Yellowstone Park trip—Approximate cost per person, $25.00.
July 8—Irving Wasserman, Piano Concert.
July 10—Piano Workshop Concert.
July 12—Summer School Canyon Breakfast.
July 14, 15, 16—Theatre Workshop production.
July 17—Music Camp Band Concert.
July 18—Music Camp Orchestra and Chorus Concert.
July 19-22—Southern Parks Trip—Approximate cost per person, $25.00.
July 30-31—The Pedal Marionettes.

Through the summer school recreation committee, students can obtain assistance in planning to use many other sources of recreation. Suggested recreational activities include picnics at one of the many camp areas in Logan Canyon, hikes to Mt. Logan and White Pine Lake, excursions to Minnetonka Cave, Bloomington Lake in the Wasatch Forest, and other interesting places. Picnic, camping and recreational equipment is available through the college for students at nominal rental fee. For further information address inquiries to Department of Physical Education or Dean of the Summer Session.
Calendar for Summer School 1952 and for Academic Year 1952-53

Summer Quarter, 1952

June 2, Monday  Coaching School and Drivers' Training Seminar begin
June 10, Tuesday  Registration begins
June 11, Wednesday  Instruction begins
June 14, Saturday  Classes meet as scheduled
July 4, Friday  Holiday
July 18, Friday  First Session ends
July 20, Monday  Second Session classes begin
July 24-25, Thursday, Friday  Holiday
August 1, Saturday  Classes meet as scheduled
August 22, Friday  Second Session ends

Fall Quarter

September 25, Thursday  Aptitude & other tests, new students
September 26, Friday  Registration of former students
September 27, Saturday  Registration of new students
September 29, Monday  Instruction begins
November 26, Wednesday  College closes 12 noon, Thanksgiving
December 1, Monday  Classes resume
December 20, Saturday  Fall Quarter ends 12 noon

Winter Quarter

January 5, Monday  Registration
January 6, Tuesday  Instruction begins
March 14, Saturday  Winter Quarter ends

Spring Quarter

March 16, Monday  Registration
March 17, Tuesday  Instruction begins
May 29, Friday  Spring Quarter ends
May 31, Sunday  Baccalaureate Service
June 1, Monday  Commencement

Summer Quarter, 1953

June 8, Monday  First Session begins
July 4, Saturday  Holiday
July 17, Friday  First Session ends
July 20, Monday  Second Session classes begin, Registration of new students
July 24, Friday  Holiday
August 21, Friday  Second Session ends
Facilities for study, research and recreation are excellent at Utah State in the summer. The professional standards of the College in the seven schools and the graduate school are recognized as high. Representative faculty members in all departments, supplemented by distinguished educators from different parts of the nation, are assigned to the staff for the summer quarter, thus making it possible to emphasize both undergraduate and graduate work, including personal attention to graduate research.

The climate of Logan is generally delightful in the summer time and the nearby natural recreational areas plus the program of lyceums, plays, concerts, and other recreational events sponsored by the College make the student's summer here a stimulating experience.

Photographs by Professor H. R. Reynolds
Trails of Logan Canyon lead through cool groves, along dashing streams and blue lakes, up over craggy cliffs. For riding and hiking, picnicking and camping, hunting and fishing the mountains encircling Logan are unsurpassed.