ANNOUNCEMENT
FOR THE
SUMMER SESSION
1945

First Term
June 4-July 7

Second Term
July 9-August 11

PUBLISHED BY
University of Arizona
TUCSON, ARIZONA
UNIVERSITY OF ARIZONA CAMPUS
APPLICATION FOR DORMITORY ACCOMMODATION

To facilitate making reservations and to promote congeniality in assignment, each student wishing to occupy a room in one of the dormitories must file an application.

Name: .................................................. Sex: ............... Age: ..............

Home address: ........................................................................

Present address: ........................................................................

Race: ........................................ Nativity: ........................................

Is your application for First Term?...... Second Term?...... Both?......

Is your application for double room?......... Single room?..............

Choice of room: ........................................ Choice of roommate: ............

How are you classified? Freshman: ............... Sophomore: ..............

........................................ Junior: ..................... Senior; ..................... Graduate: .............

I am enclosing (money order; check) for $10 for dormitory room reservation and deposit in accordance with the above application. (See "Return of fees," page 13.)

Date: ........................................ Signed: ..................................................

Applications accompanied by remittance payable to the University of Arizona should be sent to

THE DEPARTMENT OF RESIDENCE
University of Arizona
Tucson, Arizona
OFFICERS OF THE SUMMER SESSION

OFFICERS OF ADMINISTRATION

ALFRED ATKINSON, D.Sc...........................................President of the University
JAMES WILLIS CLARSON, JR., PH.D...........................................Dean of the Summer Session
CORDELIA HAGERTY..........................................................Secretary to the Dean
CHARLES ZANER LESHER, M.A...........................................Registrar
FREDERICK CROMWELL, M.A...........................................Librarian
MRS. HAZEL F. MACCREADY, M.A...........................................Dean of Women
ARTHUR HAMILTON OTIS, M.A...........................................Dean of Men
JOHN L. ANDERSON, B.S...........................................Acting Comptroller

COMMITTEE ON THE SUMMER SESSION

JAMES WILLIS CLARSON, JR., PH.D...........................................Chairman
Dean of the College of Education; Dean of the Summer Session
ROBERT L. NUGENT, PH.D.
Dean of the College of Liberal Arts
CHARLES ZANER LESHER, M.A.
Registrar

OFFICERS OF INSTRUCTION

ANDERSON, ERNEST, PH.D...........................................Chemistry
Professor of Chemistry, and Head of the Department
BROOKS, JOHN, PH.D...........................................Spanish
Professor of Spanish, and Acting Head of the Department of Latin-American Cultures
BROWN, SYDNEY BARLOW, PH.D...........................................French
Professor of French, and Head of the Department
BUFFA, JOSEPHINE M., B.A...........................................Spanish
Assistant Professor of Latin-American Cultures
BURTON, MARTHA, M.A...........................................Speech
Visiting Instructor in Speech
CARRINGTON, HERBERT DEWITT, PH.D...........................................German
Professor of German
CLARSON, JAMES WILLIS, JR., PH.D...........................................Education
Dean of the College of Education; Dean of the Summer Session; Professor of Secondary Education
CLINE, RUSSELL WALTER, PH.D...........................................Agricultural Education
Professor of Agricultural Education, and Head of the Department of Agricultural and Home Economics Education
CULLISON, JOSEPH RALPH, M.S........................................ Agricultural Education  
Assistant Professor of Agricultural Education

FRENCH, HELEN AIKEN, M.A........................................ Education  
Visiting Instructor in Education

GARRETTSON, OLIVER K., Ph.D..................................... Education  
Professor of Secondary Education, and High-School Visitor

GRAESSER, ROY FRENCH, Ph.D.................................... Mathematics  
Professor of Mathematics, and Head of the Department

GRAY, LAURENCE RODERICK, Ph.D.............................. Economics  
Associate Professor of Economics

HAMILTON, C. C., Ph.D........................................... English  
Assistant Professor of English

HAWKINS, RALPH S., Ph.D........................................ Agronomy  
Professor of Agronomy, and Head of the Department

HERMAN, ABBOTT P., Ph.D......................................... Sociology  
Visiting Professor of Sociology

HOFFMAN, LOUISE M., M.A........................................ Spanish  
Instructor in Spanish

Hohn, FRANZ EDWARD, Ph.D...................................... Mathematics  
Instructor in Mathematics

HUBBARD, HOWARD ARCHIBALD, Ph.D......................... History  
Professor of History, and Head of the Department of History and Political Science

HUNTER, WANDA S., Ph.D......................................... Zoology  
Assistant Professor of Zoology

JENSEN, MILDRED R., A.M........................................ Home Economics  
Assistant Professor of Home Economics

JOHNSON, B. ELEANOR, Ph.D...................................... Home Economics  
Professor of Home Economics, and Head of the Department

JONES, FAYE C., M.S............................................... Home Economics Education  
Associate Professor of Home Economics Education

JOSE, PAUL D., Ph.D............................................... Astronomy  
Associate Professor of Astronomy; Assistant Director of the Steward Observatory

KOONTZ, LOUIS KNOTT, Ph.D.................................... History  
Visiting Professor of History

KURATH, WILLIAM, M.A........................................... German  
Professor of German, and Head of the Department

LARSON, EMIL LEONARD, Ph.D.................................. Education  
Professor of Education

MATTINGLY, ALETHEA S., M.A.................................... Speech  
Associate Professor of Speech

MORGAN, FLORENCE HUMPHREYS, M.A.......................... English  
Assistant Professor of English

NELSON, GLENN H., Ph.D......................................... Education  
Assistant Professor of Education

NEUMANN, HENRY, Ph.D........................................... Education  
Visiting Professor of Education; Leader of the Brooklyn Society for Ethical Culture
NICHOLSON, HELEN S., PH.D. .................................. Latin-American Cultures
  Professor of Spanish

NOLL, CECILE S., B.MUS .................................. Music
  Visiting Instructor in Music

PARKER, KITTY F., M.A .................................. Botany
  Instructor in Botany

PEASE, ROLLIN, A.B .................................. Music
  Professor of Voice, and Head of the Department

PERCY, GARNET DOUGLAS, PH.D .......................... Classical Literature
  Professor of Classical Literature, and Head of the Department

PILGRIM, MARY, M.S ...................... Physical Education for Women
  Instructor in Physical Education for Women

POWELL, MARTINA .......................... Music
  Instructor in Organ

ROBERTS, LATHROP E., PH.D .......................... Chemistry
  Professor of Chemistry

ROBERTSON, FRANK DELBERT, M.A .............. Political Science
  Instructor in Social Sciences

ROY, FRANCIS A., PH.D ...................... French
  Associate Professor of French

SCHMITZ, FREDERICK JOSEPH, PH.D .............. German
  Assistant Professor of German

SIMLEY, OLE ANDREW, PH.D ...................... Psychology
  Professor of Psychology

SNYDER, HARTLEY D., M.A ...................... Music Education
  Associate Professor of Music Education, and Head of the Department

SWINGLE, ELIZABETH C., M.Sc ...................... Home Economics
  Assistant Professor of Home Economics

TREMBLAY, NAPOLEON J., PH.D ...................... French
  Professor of French

TUCKER, WILLIAM JOHN, PH.D ...................... English
  Professor of English

WALKER, JOHN FRANKLIN, PH.D ...................... Education
  Professor of Educational Psychology, and Dean of the Graduate College

WALLRAFF, CHARLES F., PH.D ...................... Psychology
  Assistant Professor of Philosophy and Psychology

WESSEL, JANET A., M.S ...................... Physical Education for Women
  Instructor in Physical Education for Women

WOOD, ELWIN GRANT, PH.D ...................... Business Administration
  Associate Professor of Business Administration
LOCATION

The University of Arizona conducts its Summer Session on the University campus at Tucson.

Tucson has an altitude of 2,400 feet. It lies in a broad valley surrounded by rugged mountains that constitute a setting of unsurpassed beauty. The campus itself with its masses of common and exotic trees, shrubs, and cacti is a veritable park of unique character. It is about a mile from the business center of the city, with which it is connected by bus service and excellent paved streets.

CALENDAR OF THE SUMMER SESSION

The Summer Session is made up of two terms of 5 weeks each. Classes will meet 5 days a week, a 2-unit lecture course requiring 5 clock hours a week per term. Laboratory periods are 3 hours. Registration will be held on the first day of each term. A late registration fee of $2 will be charged in connection with registration after that day. Registration for credit will not be granted after Monday, June 11, for the First Term, or after Monday, July 16, for the Second Term.

The calendar follows:

| June 3, Sunday, 8 A.M. | Dormitories open |
| June 4, Monday | Registration for First Term |
| June 5, Tuesday | Classwork begins |
| July 4, Wednesday | Independence Day; a holiday |
| July 7, Saturday | First Term ends |
| July 9, Monday | Registration for the Second Term |
| July 10, Tuesday | Classwork begins |
| Aug. 10, Friday | Examinations for the Second Term |
| Aug. 11, Saturday | Second Term ends |

SUMMER-SESSION COURSES

The courses of the Summer Session are designed to meet the needs of the following classes of students:

1. Regular students of this or other institutions.
2. Graduate students who are unable to attend during the regular academic year or those who wish to continue their courses or research.
3. School administrators and teachers who desire advanced instruction in academic or professional work looking toward advanced degrees or renewal of certificates or who wish to satisfy requirements of the various states and accrediting associations.
4. Prospective teachers desiring to meet certification requirements for all grades above the kindergarten.
5. Students who desire to avail themselves of cultural or professional courses.
The Summer-Session courses will be offered through the following departments and divisions:

<table>
<thead>
<tr>
<th>Agricultural Education</th>
<th>Education</th>
<th>Music Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Engineering</td>
<td>English</td>
<td>Music Theory</td>
</tr>
<tr>
<td>Agronomy</td>
<td>French</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Astronomy</td>
<td>German</td>
<td>Piano</td>
</tr>
<tr>
<td>Botany</td>
<td>History</td>
<td>Political Science</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Home Economics</td>
<td>Psychology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Home Economics</td>
<td>Sociology</td>
</tr>
<tr>
<td>Classical Literature</td>
<td>Music Education</td>
<td>Spanish</td>
</tr>
<tr>
<td>Economics</td>
<td>Fine Arts</td>
<td>Speech</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Voice</td>
</tr>
<tr>
<td></td>
<td>Music Theory</td>
<td>Zoology</td>
</tr>
</tbody>
</table>

ARIZONA STATE MUSEUM

The State Museum, established by law as an integral part of the State University, is maintained as an educational factor in the institution and the state. Its archaeological collections emphasize the conditions and the achievements of the ancient cave, cliff, and pueblo peoples of the Southwest, and its ethnological collections present the manufactured products of the various Indian tribes. Its natural history collections show the bird life of the state and present many other forms of animal existence. The Museum is open to the public each day.

LIVING ACCOMMODATIONS

Residence accommodations for both men and women are provided on the campus. Gila Hall will be used for women and Yavapai Hall for men. Rooms are uniformly furnished with tables, chiffoniers, and chairs. Beds, mattresses, pillows, and bed linens are provided, but students must provide their own blankets, towels, laundry bags, and other necessities. The laundering of all bed linen is cared for by the University. Students are advised to provide a warm blanket for the cooler nights. Students may reserve rooms in the dormitories by filing applications with the Department of Residence. A convenient blank is inserted for this purpose on page 3.

Women students.—Gila Hall is the newest of the four women’s dormitories. It represents the latest in dormitory construction and facilities. Running water in every room, an electric hair dryer and a laundry and ironing room on every floor, and elevators are modern conveniences provided to meet the needs of students. Sun decks, a spacious lounge, and an inclosed patio with barbecue pit add much to the pleasure of dormitory life.

During the Summer Session the dormitory is open to both graduate and undergraduate students. All undergraduate women not living at home are required to live in the dormitory unless exception is made by the Dean of Women before or at registration. All residence arrangements must be approved by the Dean of Women at the time of registration and may not be changed without her permission.

Men students.—Yavapai Hall, recently completed men’s dormitory, is modern in every respect.

Married students.—Information concerning housing facilities for married couples may be secured through the Department of Residence. Because of the war activities in and about the city, desirable housing
is difficult to obtain off the campus. Married couples may, however, secure separate accommodations at the dormitories for men and for women, respectively. Only registered students may use the dormitories.

ADMISSION TO THE SUMMER SESSION

The general rules and regulations of the University relating to admission to the University for credit apply to the Summer Session. Regular students of the University of Arizona in good standing are admitted as at any other time. Prospective Freshmen should file with the Registrar an official statement of high-school credits.

Students coming from other universities and colleges must present to the Registrar evidence that they are in good standing. Those who propose to become candidates for a degree must file a complete transcript of record.

Graduate students seeking graduate credit must file evidence of having graduated from an approved university or college. Other students eligible to enter the University will be permitted to pursue such courses as they are qualified to carry.

ACADEMIC CREDIT

The Summer Session is an integral part of the regular University organization, with similar standards of academic accomplishment. The courses are of the same character as those offered during the regular academic year. Credit obtained is fully recognized toward the various degrees which the University confers. All Summer-Session work is counted as work in residence. The maximum number of units for which students may register regularly for credit is 12 semester hours for the 10-week session or 6 semester hours for either 5-week term. This necessitates the intensive study of a few subjects at a time. Registration may not be changed after the first week of each term except by approval of the Dean of the Summer Session.

Students who receive failing grades in 50 per cent of the total number of units for which they were registered during the Summer Session are subject to denial of registration in the first semester of the next academic year.

EXPENSES AND FEES

As the University is unable to extend credit, it is essential that all students have sufficient funds on entering to defray their immediate expenses.

Tuition.—The tuition fee required of students registering for the normal student load of 6 semester hours and desiring credit is $25 for either 5-week term. There is no nonresident fee for out-of-state students. Students registering for 5 units or less pay a tuition fee of $5 per unit, with a minimum fee of $10. When, under extraordinary circumstances, students are permitted to register for more than 6 units, an additional fee of $5 per unit is charged for the excess registration. The tuition fee for registration for thesis only is $5. For registration after the first day of the term a late registration fee of $2 is charged. The tuition fee for those attending classes without credit (auditors) is $10 for either term. The fee for courses audited in
addition to those taken for credit is $2.50 per unit, with a maximum cost for both credit and audited courses of $25. Each student before attending classes must obtain from the Registrar's office a certificate of registration showing that all fees have been paid and that the student is entitled to enter upon his classwork.

Physical education courses.—Students registering for courses in physical education (except theory) pay a locker and towel fee of $2. One dollar of this fee is returnable if there are no charges against the student.

Piano, organ, and voice.—For individual instruction in piano, organ, or voice a fee is charged in addition to the regular tuition fee. In voice for two 1/2-hour lessons a week for 5 weeks the fee is $25. This carries 1 unit of credit. For similar instruction in piano or organ the fee is $15 for 1 unit or $25 for 2 units.

Laboratory and material fees.—In certain laboratory courses fees are required to cover the cost of materials and of breakage. Statements of the amounts of such fees are found in the descriptions of the courses.

Dormitories.—Rooms in both the men's and women's dormitories may be obtained for $12.50 per term, per person, two in a room. To the extent that rooms are available, single occupancy will cost $20 per term, per person.

Board.—Excellent meals at reasonable rates may be secured at restaurants, tea rooms, and cafeteria just off the campus.

Trips.—For field trips required in connection with courses a fee based on mileage will be charged.

Return of fees.—Students withdrawing from the University during the first week of either term (June 4 to June 11, inclusive, and July 9 to July 16, inclusive) will be charged $5 for registration expenses. Students reducing their programs during the first week will receive a corresponding adjustment of fees. After the first week no fees of any kind except room and breakage deposits and half the locker fee will be returnable. Room reservation deposits will not be returned unless notice of cancellation reaches the Department of Residence by June 2.

SUMMARY OF FEES

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition (either 5-week term, 6 units)</td>
<td>$25.00</td>
</tr>
<tr>
<td>Tuition for auditors (either 5-week term)</td>
<td>10.00</td>
</tr>
<tr>
<td>Tuition (courses audited in addition to credit courses, see page 12)</td>
<td>2.50</td>
</tr>
<tr>
<td>Tuition (5 units or less, minimum $10) per unit</td>
<td>5.00</td>
</tr>
<tr>
<td>Tuition (registration for thesis only)</td>
<td>5.00</td>
</tr>
<tr>
<td>Tuition (excess registration) per unit</td>
<td>5.00</td>
</tr>
<tr>
<td>Piano, organ, and voice (individual instruction) (see statement above)</td>
<td>2.00</td>
</tr>
<tr>
<td>Courses in physical education (except theory)</td>
<td></td>
</tr>
<tr>
<td>($1 returnable if there are no charges)</td>
<td></td>
</tr>
<tr>
<td>Laboratory and materials (see course announcements)</td>
<td></td>
</tr>
<tr>
<td>Field trips (based on mileage)</td>
<td></td>
</tr>
<tr>
<td>Room in dormitory (term in advance)</td>
<td>$12.50</td>
</tr>
<tr>
<td>(Includes furnishing and laundering of bed linens in both dormitories)</td>
<td>20.00</td>
</tr>
<tr>
<td>Room deposit</td>
<td>10.00</td>
</tr>
<tr>
<td>(Returnable if there are no charges)</td>
<td></td>
</tr>
</tbody>
</table>

PROJECTED REGISTRATION

Students who have regularly registered for a full course of 12 semester hours of credit during the current summer and have demonstrated their ability to do independent work may be permitted to
enroll for a maximum of 3 semester hours of work to be done in absentia. Work thus undertaken must be in the nature of an individual problem. The student must outline the problem and secure the written approval of the instructor under whose direction he will do the work and the approval of the Dean of the Summer Session. The approved statement of the problem and the outline must be filed in the office of the Dean of the Summer Session not later than Saturday, August 4. The student must complete the work before the beginning of the Summer Session of 1946. Work done under projected registration will carry the course number 300 and will be accepted for residence credit. Graduate credit will be granted under the conditions outlined below. There is no additional charge for this privilege.

GRADUATE STUDY AND ADVANCED DEGREES

The University of Arizona Summer Session offers excellent opportunity for graduate study. Several of the departments of the University have provided for individual research in their special fields. Such courses are listed under the respective departments. Students who wish to pursue any of these courses must obtain the consent of the respective instructors before registering for the courses.

In certain departments provision is made for teachers in service and others who are unable to attend the University during the regular year to complete the requirements for the master's degree by attendance at Summer Sessions only.

Graduate credit implies intellectual accomplishment at a higher level than that usually demanded of undergraduate students. To insure this result, specified requirements have been set up.

Registration for graduate credit is restricted to students holding the bachelor's degree from an approved school and, through petition to the Graduate Study Committee, to qualified Seniors who have almost completed the requirements for the bachelor's degree. Every student registering for graduate work must give evidence of having not less than 12 semester hours of undergraduate credit basic to the graduate work.

All courses numbered from 200 to 299 are definitely organized as graduate courses and carry graduate credit. Certain courses numbered from 100 to 199, designated by the letter G following the title, may be taken for graduate credit. To receive graduate credit a student must receive a grade not less than 3 in graduate courses and not less than 2 in courses numbered 100 to 199.

Students registering with the expectation of becoming candidates for an advanced degree should read carefully, in the general catalogue of the University of Arizona, the regulations governing the granting of that degree. At some time during the first 2 weeks of residence they should check concerning requirements at the office of the Graduate College, Room 114A, Engineering building.

Candidates for the master's degree who expect to complete their work for the degree during the Summer Session of 1944 should have their theses completed and approved by the departments concerned as early as possible. Theses in final form must be presented at or before the oral examination. All oral examinations must be taken not later than Tuesday, August 7. Written examinations, when given, must precede the oral by not less than 7 days.
CANDIDATES FOR DEGREES

All candidates for degrees who expect to complete their work for a degree at the end of either term must file an application during the first week of the term. Blanks are available at the Registrar's office.

TEACHERS' CERTIFICATES

One of the important functions of the University is the preparation of teachers. All the resources of the University are available for this work.

Secondary certificates are granted to the holders of the bachelor's degree from an accredited university or college authorized to prepare secondary-school teachers who present, in addition, evidence of the satisfactory completion of not less than 30 semester hours of graduate work at the University of Arizona or at other accredited institutions.

Pre-Secondary certificates entitle the holders to qualify for the regular Secondary certificate by in-service preparation while they are teaching. Such certificates have a preliminary requirement of 6 semester hours of graduate work.

Elementary certificates are granted to holders of the bachelor's degree from an accredited university or other teacher-preparation institution authorized to prepare elementary-school teachers.

Teachers now holding valid Arizona secondary or elementary certificates based on lower requirements have until September 1, 1950, to qualify.

Elementary and secondary certificates are valid for 4 years. They are renewable any number of times for periods of 6 years, upon presentation of evidence that the holder has, during the life of the certificate, completed 4 years of successful teaching and has carried to completion satisfactorily 5 semester hours of approved professional work at an accredited school or 10 semester hours when the teaching experience has been deficient. For the initial renewal 2 years' teaching and 5 semester hours are required.

ADMINISTRATIVE CERTIFICATE

Administrative certificates are granted upon evidence of at least 3 years of successful teaching experience, eligibility for an elementary or a secondary certificate, and 15 semester hours of education in addition to and after securing the baccalaureate degree, devoted to school organization, administration, and supervision. The certificate is required of any administrator in charge of a school or school system with five or more teachers.

APPLICATION FOR CERTIFICATES

All persons applying for certificates authorizing them to become superintendents (or principals) or teachers in the public schools and colleges of this state must, in addition to existing requirements, take a course in the provisions and principles of the Constitution of the United States and of this state. Candidates for certificates may satisfy this requirement by taking the course, Political Science 100.

Certificates for teachers and school administrators are not granted automatically; formal application must be made. As considerable time is sometimes required to secure the necessary data, candidates should
file the application early in the term in which they expect to qualify. Necessary blanks and detailed information relating to teachers’ and administrative certificates may be secured at the office of the Dean of the College of Education.

ACCELERATION AND WAR WORK

Accelerated programs.—Entering Freshmen may speed up their college work by starting in the summer. There will be a broad choice of required and elective courses. Sophomores, Juniors, and Seniors will find many courses available to enable them to accelerate their programs.

War courses.—Numerous courses directly and indirectly preparatory to the nation’s war work will be offered. These include chemistry, first aid, mathematics, and navigation (surface and aerial).

OTHER TIMELY COURSES

New courses.—In meeting and anticipating advanced needs and interests, the Summer Session each year offers new courses in several departments. This year new courses will be offered by resident professors in classical literature, French, Latin-American cultures, and music; and by visiting professors in education, English, history, and sociology. Again, students are offered an opportunity to study voice under Professor Rollin Pease.

For teachers of agriculture.—Intensive short courses in agricultural education will be available (June 4-June 20).

Spanish.—Tucson is unexcelled in the United States in the appropriateness of its setting for the study of Spanish. One cannot walk through the main streets without hearing it spoken; on the shop windows one sees the familiar “Aquí se habla español” (Spanish is spoken here); the older part of the city is still essentially Spanish-American in character; and only 2 hours away by auto, train, or bus is Mexico itself, teeming with the characteristics of a different world. Courses for the beginner and the advanced student are offered during the session.

German.—Full-year beginning and advanced courses in German will be offered.

ENTERTAINMENT AND RECREATION

During the Summer Session a regular weekly auditorium program will be provided, including lectures, concerts, and other features. Several dances are given during the summer.

Opportunities for diversion and recreation are numerous. Sabino Canyon, Bear Canyon, Fort Lowell, Picture Rocks, San Xavier Mission, Tumacacori Mission, and other places of interest near Tucson make possible many trips or picnic parties which students of the Summer Session may enjoy. For somewhat longer trips, White House Canyon in the Santa Rita Mountains, the Casa Grande Monument, and the resorts of Soldiers’ Camp and Summerhaven on Mt. Lemmon in the Santa Catalina Mountains afford excellent opportunities for weekend excursions. Here among the great pine trees are a hotel and many ideal camp sites where the atmosphere is invigorating and the surroundings stimulating to both the student and the lover of nature. The border city of Nogales, Mexico, within 2 hours’ drive from Tucson, presents to the visitor a very colorful Old World atmosphere.
Because of governmental restrictions on travel, the University is unable to follow its usual practice of providing trips to these places of interest. It may be possible, however, for students to arrange car pools for such trips. Regular stage service is available between Tucson and Nogales and Tumacacori Mission.

There are excellent tennis courts and a large outdoor swimming pool on the campus. Swimming tags are obtained from the Cashier. A municipal golf course within easy reach of the University is available to the devotees of this popular form of sport. Bowling, dancing, and roller skating are always easily available.
COURSES OFFERED*  
IN THE  
1945 SUMMER SESSION

AGRICULTURAL AND HOME ECONOMICS EDUCATION

Professor Cline (Head of the Department).  
Associate Professor Jones.  
Assistant Professor Cullison.

AGRICULTURAL EDUCATION

202. Advanced Agricultural Education. (2) Cline  
Developing course for departments of agriculture in relation to the state course of study. Planning teaching units, procuring reference materials, planning and conducting learning activities on the basis of specific problems. For experienced teachers and graduates. (June 4 to June 20, hours to be arranged.)

216s. Advanced Methods of Teaching Farm Mechanics. (2) Cullison  
Evaluation and practice in the use of teaching techniques. Course of study including the course layout, job plans, sources and use of project plans and blueprints. Shop organization and management and evaluation of shop skills and content. Other problems will be considered according to needs of members of the group. Fee, $2. (June 4 to June 20, hours to be arranged.)

HOME ECONOMICS EDUCATION

202s. Creative Procedures in Teaching Home Economics. (2) I. Jones  
Planning new and evaluating existing procedures and materials to be used in developing lessons and units of work in home economics. Students interested in the course should correspond with instructor relative to problems and materials needed in the course. Prerequisite, Education 139. 9:20-10:20.

208s. Planning and Supervising Home Experiences. (2) I. Jones  
Types and values of home experiences in teaching home economics. Techniques used in guiding students to select, plan, carry out, and evaluate home practices and projects. Prerequisite, Education 139. 7:00-8:00.

212s. Problems in Housing and Equipping Departments of Home Economics. (2) I. Jones  
Plans and specifications for new and remodeled departments. Sources of equipment and the evaluation of same in terms of specifications and department budgets. Procedures and standards for arranging equipment and decorating rooms. (Students anticipating registering for this course should notify instructor by May 10 to obtain information needed for individual problems.) 10:30-11:30.

*Unless otherwise specified, all classes meet for 1 clock hour daily from Monday to Friday, inclusive.
The Arabic numerals in parentheses indicate the number of units of credit. The Roman numerals indicate the term in which the course is offered. The letter "G" indicates that graduate credit is permissible.
Where prerequisites are given in terms of numbered courses, equivalents of these courses are acceptable.
The University reserves the right to withdraw any course for which there is an insufficient registration.
AGRICULTURAL ENGINEERING

Assistant Professor Cullison.

1s. Agricultural Shop Practice. (2) Cullison
Carpentry, mechanical drawing, leather work, soldering and sheet metal work, tool reconditioning, glazing, ropework, plumbing, farm electricity, gas and electric welding. Fee $3. (June 20 to July 7, hours to be arranged.)

AGRONOMY

Professor Hawkins (Head of the Department).

202s. Irrigating Farm Crops. (2) Staff
Problems connected with the application and use of water in the irrigation of farm crops in Arizona, with special reference to practices that make for maximum quality and production. Prerequisite, 12 units in agronomy or related work. (June 4 to June 20, hours to be arranged.)

ASTRONOMY

Associate Professor Jose.

1a, 1b. Descriptive Astronomy. (4) II. Jose
A nonmathematical course: the solar system, the stars, and "island universes." Students desiring this work should register for both 1a and 1b, 4 units. 7:00-9:10.

10. Navigation. (3) I. Jose
The use of marine charts, use and adjustments of the compass, plane and great circle sailing, determination of position by observations with the sextant. Application of the foregoing will be made to both surface and aerial navigation. Prerequisite, Mathematics 24. Laboratory fee, $1. 11:40-12:40. (Lab. 2:00-4:30 T. W. Th. F.)

BOTANY

Instructor Parker.

1. General Botany. (4) I. Parker
The elements of botany with emphasis upon the structure, functions, and development of the plant. Prerequisite to all other courses (except 2, 3e, or 3s) in the Department. Laboratory fee, $5. 8:10-9:10. (Lab. 9:20-12:20.)

3s. Plants of the Tucson Area. (2) I. Parker
A course in identification of plants of the Tucson area. Consideration will be given to the principles of plant classification. This course will not be substituted for Botany 4 in a sequence. Travel and laboratory fee, $2.50. 7:00-8:00.

BUSINESS ADMINISTRATION, ECONOMICS, AND SOCIOLOGY

Visiting Professor Herman.

Associate Professors Gray, Wood.

6s. Introduction to Business. (2) I. Gray
A survey of the fundamental characteristics and functions of modern business. Not open to those who have had 171a-171b. 9:20-10:20.

161s. Principles of Marketing. (2) II. G. Wood
The principles and practices of marketing in the distribution of commodities in the United States; marketing institutions and current marketing problems. Prerequisite, Economics 1b or 2b. 8:10-9:10.
ANNOUNCEMENT FOR THE SUMMER SESSION

1as-1bs. Introduction to Economics. (2-2) I-II. Gray-Wood
The first term is devoted to a study of methods of logical economic analysis and the derivation of fundamental principles—distinctly a tool course. The second term is devoted to application of methods of reasoning and principles to actual problems of economic life. 11:40-12:40.

105s. The Labor Movement. (2) I. G. Gray
A study of the problems and of what labor, employers, and the state have done about them. Prerequisite, 1b or 2b. 8:10-9:10.

148s. Money and Banking. (2) II. G. Wood
Present monetary problems such as possible present and postwar inflation or deflation, financing international trade with postwar Europe; stabilization of exchange rates and gold reserves are discussed in the light of present monetary and banking theory and practice. Prerequisite, 1b or 2b. 9:20-10:20.

81s. Introduction to Sociology. (2) I. Herman
The bearing of culture on human nature; the processes by which culture influences community and group relationships and personality. Evaluation of prevailing concepts of human nature. 8:10-9:10.

188s. Community Institutions and Social Change. (2) I. G. Herman
The important agents of change; the part social institutions play in their creation and direction; the attitudes which fail to prevent or anticipate the problems emerging from change. Prerequisites, 81 and upper-division standing. 10:30-11:30.

189s. Principles of Case Analysis. (2) I. G. Herman
Examination of case histories to see the bases for conflicts and adjustments; the essentials of an adequate case history. Prerequisites, 81 and upper-division standing. 11:40-12:40.

CHEMISTRY
Professors Anderson (Head of the Department), Roberts.

1a-1b (2a-2b). General Chemistry. (4-4) I-II. Roberts-Anderson
A course designed to train the student in scientific methods of experimentation, observation, and reasoning and to impart a knowledge of the fundamental principles of chemistry and of the properties of the metallic and nonmetallic elements and their compounds. Laboratory fee, $5; breakage deposit, $2.50. 8:10-9:40. (Lab. 1:40-4:30 M. W. F.)

103a-103b. General Organic Chemistry. (4-4) I-II. G. Roberts-Anderson
A thorough discussion of the general principles and theories of organic chemistry accompanied by the laboratory preparation and examination of numerous important organic compounds. Prerequisites, upper-division rank and 1b or 2b. Laboratory fee, $5; breakage deposit, $2.50. 10:00-11:30. (Lab. 1:40-4:30 M. W. F.)

CLASSICAL LITERATURE—HUMANITIES
Professor Percy (Head of the Department).

(No knowledge of the Greek or Latin language is required for the following courses.)

26. Classical Mythology. (2) I. Percy
The myths, legends, and folk tales of ancient Greece, Italy, and India as they appear in Greek, Latin, and Sanskrit literature. Lectures and readings in English. 11:40-12:40.
127s. Greek and Roman Civilization. (2) II. G. Percy
The civilizations of Greece and Rome, and their significance for the world today. Lectures and readings in English. 8:10-9:10.

128s. Greek Tragedy. (2) II. G. Percy
The tragic dramas of Aeschylus, Sophocles, and Euripides. The Greek theatre and the manner of presenting plays in the classical period. Lectures and readings from selected plays in English. 10:30-11:30.

129s. Greek and Roman Biography. (2) II. G. Percy
The rise and development of Greek and Roman biographical writing. Lectures and readings in English from Plutarch, Lives of the Noble Greeks and Romans, Suetonius, Lives of the Caesars, St. Augustine's Confessions, and other biographical material. 11:40-12:40.

150abs. Classical Literature. (4) I. G. Kurath
Introduction to the historical study of language. Theories concerning the origin of language, classification of languages, phonology, morphology, syntax, and semantic change. Designed for students specializing in any of the languages. Prerequisites, upper-division standing and 24 units of foreign language, or consent of the instructor. 9:20-10:20 and 11:40-12:40. (Meets 2 periods daily.)

Introduction to Humanities. (4-4) I-II. Percy-Roy
The cultural life of the Western World as it developed in literature, art, and philosophy from the Greeks to the present. Required of Sophomores in Business Administration, Liberal Arts, Fine Arts, and Home Economics. Fee, $1 First Term. Section limited to 30 students. 8:10-9:10 and 10:30-11:30. (Meets 2 periods daily.)

EDUCATION

Professors Clarson (Head of the Department), Garretson, Larson, Walker.
Visiting Professor Neumann.
Assistant Professor Nelson.
Visiting Instructor French.

110s. Elementary Philosophy of Education. (2) II. G. Larson
The social-civic theory of education to develop perspective and an understanding of administrative and other practices. 8:10-9:10.

111s. History of Education. (2) I. G. Nelson
A general survey of the educational systems of the leading foreign nations and an evaluation of modern tendencies. 8:10-9:10.

117. Visual and Auditory Aids in Teaching. (2) II. G. Larson
Use and management of auditory and visual aids. Motion pictures, stereoscopes, slides, charts, blackboard technique, radio programs. Actual instruction in use of equipment. Prerequisite, 151; recommended, 121a or 134. 9:20-10:20.

121s. The Elementary School. (2) I. G. Larson
The purposes and curriculum of the elementary school. Available courses are studied and evaluated, and a defensible curriculum proposed. This course meets the certification requirement in the elementary curriculum. Prerequisite, 3 units in education. 10:30-11:30.

121as. The Language Arts and Their Correlation with Other Elementary Subjects. (2) I. G. French
Modern methods of teaching spelling, handwriting, and written and oral English; the correlation of the language arts with other elementary-school subjects; help with individual problems relative to organization of classroom work. Prerequisite, 151 or teaching experience. 9:20-10:20.
121bs. Elementary Curriculum and Methods. (2) II. G. Larson
Social Studies. Education 151 must precede or accompany this course.
10:30-11:30.

131s. The High School. (2) I. G. Garretson
The high school as an institution; historical development; aims,
functions, and outcomes; the curriculum; relation to other divisions
of the school system. Prerequisite, 3 units in education. 10:30-11:30.

134s. General High-School Methods. (2) II. G. Garretson
The actual problems of teaching with especial reference to the
principles of educational psychology. Prerequisites, 151; recommended,
131. 10:30-11:30.

150s. Mental Hygiene. (2) II. G. Walker
The principles of mental hygiene and their application to personal
and social needs. Prerequisite, 151. 8:10-9:10.

151s. Educational Psychology. (2) I. Larson
The study of the learning process with attention given to motivation,
guidance, and control of children of school age. Prerequisite, Psychology
1a. 9:20-10:20.

157s. Educational Tests and Measurements. (2) I. G. Walker
The principles underlying the making and using of informal objective
examinations; practice in making and scoring such examinations; sur-
veys of standard tests in the respective fields. Prerequisite, 151. 7:00-
8:00.

196s. The Teaching of Literature. (2) I. G. Neumann
For teachers in both elementary and high schools. Functions of liter-
ature as a school subject. Materials available for different age-levels;
(a) legends, folk tales, fairy stories; (b) novels and short stories; (c)
plays, poems; (d) essays; (e) orations; (f) biographies. Correlation
of literature with other subjects. Prerequisites, 134 and 12 units of
English. 10:30-11:30.

214. Arizona State School System and
School Law. (2) I. Larson
The principles and problems of public education in Arizona. The
codes relating to schools and a comparison of this code with other state
codes and ideal codes. For Seniors and graduates. Prerequisite for
Seniors, 6 units in education. 8:10-9:10.
If students prefer it, Education 271, School Finance, may be given in
place of Education 214.

230s. Supervised Study. (2) I. Garretson
The philosophy and objectives of supervised study in the secondary
school and a critical evaluation of the procedures, techniques, and plans
available for the improvement and supervision of study in high school.
Prerequisite for Seniors, 6 units in education. 7:00-8:00.

233s. Extraclassroom Activities. (2) II. Garretson
The purposes of extraclassroom activities. The technique of admin-
istration of various extracurricular activities. Prerequisites for Seniors,
131 and 134. 7:00-8:00.

236as. High-School Administration and
Supervision. (2) I. Garretson
The problems of organization, administration, and supervision of the
modern high school. For Seniors and graduates. Prerequisite, 131. 8:10-
9:10.

240s. Analysis and Correction of
Reading Difficulties. (2) I. French
Designed to aid teachers in recognizing reading difficulties and dis-
covering their causes; ways and means for correcting different types
of difficulties at all grade levels. Demonstrations where possible. 11:40-
12:40.
254s. Statistical Methods in Education. (2) I. Walker
Elementary methods of dealing quantitatively with school data and
data resulting from experimental investigations. Required as part of
the graduate major in education. For Seniors and graduates. Prere-
quisite for Seniors, 6 units in education. 10:30-11:30.

254b. Advanced Statistics in Education. (2) II. Walker
The application of the common procedures of statistics, including
multiple and partial correlation, to specific school and research prob-
lems. For Seniors and graduates. Prerequisite, 254s. 10:30-11:30.

290. Techniques in Educational Research. (2) I. Nelson
For advanced students majoring in education. Various methods of
research; representative studies of each type. For Seniors and graduates.
Prerequisite for Seniors, 6 units in education. Required of all graduates
with education as a major. 10:30-11:30.

299. Seminar in Education. (2) II. Garretson
Current literature and selected topics and problems. For Seniors and
graduates. Prerequisite for Seniors, 6 units in education. Required of
all graduate students having education as a major or a minor. 9:20-10:20.

Individual Studies. (1 to 2) I, II. Clarson
The Department makes available to undergraduate students oppor-
tunity to work individually in special fields of study through Honors
(2-2) and Special Problems (1 to 2); and to graduate students through
Research (2) and Thesis (4). (Conference hours to be arranged.)

ENGLISH

Professor Tucker.
Visiting Professor Neumann.
Assistant Professors Hamilton, Morgan.

1as-1bs. Freshman Composition. (2-2) I-II. Morgan-Hamilton
The study and practice of good writing, with emphasis upon exposi-
tion. Required of all Freshmen. If these courses are to be accepted in
full satisfaction of the degree requirements in Freshman Composition,
the student must attain an average passing grade of "3" or better in the
two courses. 9:20-10:20.

129as. Tennyson. (2) II. G. Morgan
The lyrics, and a selection of the narrative and dramatic poetry.
10:30-11:30.

130bs. The Contemporary Social Novel. (2) I. G. Tucker
The modern novel as a reflection of contemporary social movements,
and as a work of art. 10:30-11:30.

131as. Shakespeare. (2) I. G. Tucker
A careful study of three plays. Prerequisite, 131a. 11:40-12:40.

134s. Modern Drama. (2) II. G. Hamilton
The chief dramatic writers of the last half century. 8:10-9:10.

137s. Chaucer. (2) I. G. Tucker
The Prologue, selected Canterbury Tales, and some of the minor
poems. Emphasis upon Chaucer's narrative skill and upon the historical
and social background of his age. Required of undergraduate and
graduate majors. 8:10-9:10.

139s. Milton. (2) II. G. Morgan
Paradise Lost, selected lyrics and prose. 9:20-10:20.

180s. Nobel-Prize Writers in English. (2) I. G. Neumann
An analytic study of representative writings of Kipling, Tagore,
Yeats, Shaw, Lewis, Galsworthy, O'Neill, and Pearl Buck. Their ideas,
their methods, and their contributions. Prerequisites, upper-division
standing and either Humanities or a survey course in literature. 9:20-
10:20.
ANNOUNCEMENT FOR THE SUMMER SESSION

250s. The Methods and Materials of Research in English. (2) II. Hamilton
Practice in the use of bibliographies and source materials; exploration of fields for theses. Required of all candidates for the master's degree in English. 11:40-12:40.

FRENCH

Professors Brown (Head of the Department), Tremblay.
Associate Professor Roy.

1a, 1b. Elementary French. (4) I. Tremblay-Roy
Grammar, composition, oral practice, and reading. Credit toward graduation in 1a is allowed only after completion of 1b. Both courses will be given the first term. 1a: 9:20-10:20 and 11:40-12:40; 1b: 7:00-8:00 and 9:20-10:20. (Both classes meet 2 periods daily.)

3a. Advanced French. (4) I. Brown
Review grammar, composition, conversation, reading. Prerequisite, 1a-1b or 2 years of high-school French. The class meets 2 hours daily. 8:10-9:10 and 10:30-11:30.

5as. Advanced Composition and Conversation. (2) I. Tremblay
Composition, lectures, conversation in French on topics current in France. Prerequisite, 3b. 8:10-9:10.

GERMAN

Professors Kurath (Head of the Department), Carrington.
Assistant Professor Schmitz.

2a-2b. Intensive Course in German. (6-6) I-II. Schmitz-Carrington
A beginning course stressing the spoken language. The equivalent of 1a-1b and 3a-3b in the regular session. The student selecting this course is expected to devote his entire summer study program to it. Three class hours daily. 8:10-11:30.

3a-3b. Second-Year German. (3-3) I-II. Carrington-Schmitz
Grammar review, simple composition and conversation, class and collateral reading of modern literary texts. 10:30-12:00.

4a-4b. Reading Course. (2-2) I-II. Carrington-Schmitz
Intensive reading of standard literary texts. Outside reading in the student's field of interest. 8:10-9:10.

108a-108b. Training in Reading Scientific Texts. (2-2) I-II. Carrington-Schmitz
Individual reading programs in the student's field of specialization. Weekly conferences. For nonmajors only. Prerequisite, 3b. Conference hours to be arranged with each student.)
125s. Masterpieces of German Literature in English. (2) I. G. Kurath
A survey of German literature from its beginnings to the middle of the eighteenth century, followed by more detailed lectures on literature and literary movements from the eighteenth century to modern times. 8:10-9:10.

HISTORY AND POLITICAL SCIENCE

Professor Hubbard (Head of the Department).
Visiting Professor Koontz.
Instructor Robertson.

1as. History of the United States. (2) I. Robertson
A general survey of political and social development from the founding of Jamestown; the westward movement; the development of western democracy; social and political changes to the Civil War. Open to all students. 9:20-10:20.

113as. Sixteenth and Seventeenth Century Europe. (2) II. G. Hubbard
A study of the social and economic causes of religious revolts, the wars of religion which have frequently been compared with the wars of the twentieth century, and the evolution of interstate relations based on treaties. 8:10-9:10.

113bs. The French Revolution. (2) II. G. Hubbard
The social, economic, and political causes of the French Revolution; the various forms that the revolutionary government took; and the relation between France and other states as a result of the Revolution. 10:30-11:30.

130as. American Westward Movement. (2) I. G. Koontz
A study of the political, economic, and social aspects of the frontier West, and westward movement, including the European background. 8:10-9:10.

137s. Studies in the Far East. (2) II. G. Hubbard
Survey of the history of China and Japan; the battle for western concessions; the development of imperialism. 7:00-8:00.

146s. The United States: Colonial Period. (2) I. G. Koontz
The Thirteen Colonies and their neighbors; European background, settlement, and westward expansion, intercolonial conflicts, beginnings of culture, colonial opposition to imperial authority. 9:20-10:20.

147s. Great Personalities: Colonial. (2) I. G. Koontz
An approach to United States history from the standpoint of biography—including Smith, Byrd, Cresap, Dinwiddie, Montcalm, Chief Little Carpenter, and Father Serra. 11:40-12:40.

100s. National and State Constitutions. (2) I. Robertson
Designed to meet the state requirements for a teacher's certificate. 11:40-12:40.

HOME ECONOMICS

Professor Johnson (Head of the Department).
Assistant Professors Jensen, Swingle.

116s. Home Management. (4) I. Swingle
A study of the home as it is influenced by training, use of time, energy, and money. Analysis of household tasks and equipment. Consideration of human values in home life. Laboratory work consists of 5 weeks'
residence in the home-management house, with actual experience in
the purchasing and preparation of foods, meal planning and service,
child care, housekeeping, household records, hospitality, and group re-
lationships. Admission by consent of instructor. Registration restricted to
a minimum of 4 and a maximum of 6. Fee, $30. (Hours to be arranged.)

127s. Child Development—Lecture. (2) I. G. Swingle
Discussion of all phases of the care and development of young

127s. Child Development—Laboratory. (2) I. G. Swingle
Laboratory work to be done in the University Nursery School. Course
open to men and women. 9:30-12:30.

137s. The Family. (2) I. G. Johnson
A survey of the family as a changing institution; and analysis of the
problems of the modern family with emphasis on wartime and postwar

146s. The Consumer and the Market. (2) I. G. Johnson
Consumer buying problems under wartime conditions. For men and
women. 10:30-11:30.

154s. Recent Developments in the
Textile Field. (2) II. G. Jensen
Readings and reports from current literature relative to new processes
and methods used in the manufacture of modern fabrics. Review of
research in the textile field. Prerequisite, 94. 9:20-10:20.

226s. Economics of Consumption. (2) I.
Johnson
Consideration of consumption habits, standards of living, and cost
of living. For men and women with approval of instructor. 8:10-9:10.

HOME ECONOMICS EDUCATION
(See Agricultural and Home Economics Education.)

MATHEMATICS

Professor Graesser (Head of the Department).
Instructor Hohn.

Selection in Mathematics. (1 to 6) I-II. Graesser-Hohn
Through individual instruction and supervised study, a student may
secure a maximum of 6 semester hours of credit per term in the follow-
ing courses:
Math. 11s, Intermediate Algebra. (2) I. 7:00-8:00.
The third semester of high-school algebra. Prerequisite, 1 entrance
credit in algebra. Students offering more than 1 entrance credit in
algebra receive no college credit. Those offering 1 entrance credit in
algebra receive either $1_2$ entrance credit or 2 units of college
credit but not both. This course may be followed by 20 but can not
be taken concurrently.
Prerequisite, 1$1_2$ entrance credits in algebra or Math. 11s.
Math. 24, Plane Trigonometry. (2) I and II. 7:00-8:00.
Math. 25, Analytic Geometry. (4) II. 7:00-9:10.
Math. 81, Slide Rule. (1) II. 10:30-11:30.
Math. 95a, Calculus. (4) I. 8:10-9:10 and 10:30-11:30.
Math. 95b, Calculus. (4) II. 8:10-9:10 and 10:30-11:30.
For more adequate descriptions of the courses, together with listing
of prerequisites, see general catalogue.
MUSIC

Professor Pease (Head of the Voice Department).
Associate Professor Snyder (Head of the Department of Music Education).
Instructors Noll, Powell.

1a-1b. Music Appreciation. (2-2) I-II. Snyder
For students with no technical knowledge of music. The music of the various periods is studied in relationship to other arts; through aural training the attitude of a critical listener is created. Music 1a will be given both terms. 1a: First Term: 10:30-11:30; Second Term: 8:10-9:10. 1b: 10:30-11:30.

2a, 2b. Fundamentals of Music. (2) I, II. Snyder
Rudiments of theory and rhythm taught in relation to the piano keyboard. Students with no background in music register for 2a. Students who have had 2a or are able to play hymn tunes on the piano, register for 2b. Credit for these courses is not granted to music majors. 9:20-10:20.

25a, b. Class Instruction. (2) I, II. Noll
Beginning class piano. 9:20-10:20.

56a. Class Instruction in Voice. (2) I. Pease
10:30-11:30.

176. Elementary Music Education. (2) I. G. Snyder
Song singing, rhythmic sense development, listening lessons, music reading, and projects for grades 1 to 6. Prerequisites, 1a-1b, 2, and Junior standing. Not for credit toward the Master of Music degree. 8:10-9:10.

182s. Piano Improvisation and Survey. (2) I, II. G. Noll
The course is designed to give students facility in improvising piano accompaniments to songs used in the public schools and to give them a practical playing knowledge of piano selections necessary in the field of music education. Prerequisites, 4a-4b, 26d, and 176 or Education 197m. Not for credit toward the Master of Music degree. 11:40-12:40.

Organ. Individual Instruction. I. Powell
A general course in organ playing designed according to the individual needs of the student and dependent upon previous experience either in the piano or organ field. (Hours and credit to be arranged.)

Piano. (1 to 4) I, II. Noll
A course, general in scope, offering both the technical studies and the literature of the elementary, intermediate, and advanced divisions of the pianoforte. The particular need of the student will be adjudged. (Hours and credit to be arranged.)

Voice. I. Pease
Class lessons in beginning voice, and individual instruction in any desired voice course. (Hours and credit to be arranged.)

PHYSICAL AND HEALTH EDUCATION FOR WOMEN

Instructors Pilgrim, Wessel.

84s. First Aid and Aftertreatment of Injuries. (2) I. Pilgrim
Instruction in quick relief and aftertreatment in case of accidents and emergencies. American Red Cross First Aid certificates given by Red Cross Instructor. Open to both men and women. 10:30-11:30.
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110s. Swimming and Lifesaving. (2) I, II. Pilgrim-Wessel
Students registered for swimming must also be registered in some other University course. Students will register for one of the following divisions upon recommendation of instructor. Locker fee, $2. 8:10-9:10.
A. Elementary swimming
B. Intermediate swimming
C. Advanced swimming and diving
D. Lifesaving (American Red Cross certification will be given upon completion of requirements.)

112s. Folk Dancing. (2) II. Wessel
Study and practice of folk dances of various countries including American square dances; discussion and study of folk history, costumes, programs, and festivals. Locker fee, $2. 7:00-8:00.

153s. Health Direction. (2) II. Wessel

173s. Recreational Games. (2) I. Pilgrim
Practice and theory of coaching minor sports and modified activities such as archery, croquet, volleyball, badminton, deck tennis, horseshoes, table tennis, shuffleboard, and bowling. (Also practical methods of making own equipment for school, community, and home recreation.) Locker fee, $2. 7:00-8:00.

PSYCHOLOGY

Professor Simley.
Assistant Professor Wallraff.

1as-1bs. Elementary Psychology. (2-2) I-II. Wallraff-Simley
Fundamental principles of human behavior. Applications of principles are stressed. 7:00-8:00.

15s. Social Psychology. (2) I. Wallraff
Foundations of social behavior. Personality and its social basis. Crowds, suggestion, propaganda, motivation, competition, imitation, war. Prerequisites, 1a and 1b or Education 151. 9:20-10:20.

113s. Development of Human Behavior—Childhood. (2) II. G. Simley
The principal changes in human beings from birth to adolescence. Physical, mental, emotional, and social aspects of development will be studied. Prerequisites, 1a and 1b or Education 150 or Education 151. 9:20-10:20.

116s. Psychology of Personality. (2) I. G. Wallraff
Analysis and measurement of personal traits. Conditions affecting personal development. Problems of adjustment. Prerequisites, 1a and 1b or Education 150 or 151. 10:30-11:30.

118s. Abnormal Psychology. (2) II. Simley
Forms of mental abnormality and deficiency. Interests of premedical and law students considered. Prerequisites, 1a and either 1b or Education 151. 10:30-11:30.

SPANISH—LATIN-AMERICAN CULTURES

Professors Brooks (Acting Head of the Department of Latin-American Cultures), Nicholson.
Assistant Professor Buffa.
Instructor Hoffman.
1a-1b. Elementary Spanish. (4-4) I-II. Nicholson-Hoffman
A beginning course that includes grammar essentials and translation; emphasizing especially accurate pronunciation and oral work. Credit toward graduation in 1a is allowed only after completion of 1b. The class meets 2 hours daily. 7:00-8:00 and 9:20-10:20.

3a-3b. Intermediate Spanish. (4-4) I-II. Brooks-Buffa
Introduction to systematic syntax accompanied by reading of modern books. Prerequisite, 1b or 2 years of high-school Spanish or permission of instructor. The class meets 2 hours daily. 8:10-9:10 and 10:30-11:30.

13as-13bs. Elementary Conversation. (2-2) I-II. Brooks-Buffa
Prerequisite, 1 year of college Spanish or its equivalent. 11:40-12:40.

14a. Elementary Composition. (2) II. Hoffman
Prerequisite, 3b. 10:30-11:30.

118s. Workshop in Latin-American Civilization. (2) I. Nicholson
Designed as a foundation for further study, the course will touch on the history, political organization, art, music, and psychology of the Latin-American countries. Cultural bibliographies will be compiled. Topics of interest in their special fields will be studied by individual students. Knowledge of Spanish is desirable but not essential. No credit toward the Spanish major. 10:30-11:30.

SPEECH

Associate Professor Mattingly.
Visiting Instructor Burton.

2as-2bs. Principles of Speech. (2-2) I-II. Mattingly-Burton
The principles of effective speaking and their application in a variety of occasions, both public and private. This course affords training in thinking, emotional control, and the utilization of body, voice, and language in developing basic speech skills of the grosser sort. Assignments adapted to individual needs. Recording fee, $1.50 each term. 9:20-10:20.

5. Voice and Diction. (2) I, II. Mattingly-Burton
The elimination of unpleasant vocal characteristics and the cultivation of a pleasing voice; the development of good enunciation, articulation, pronunciation, vocabulary, word choice, grammar, and phraseology in speech. Recording fee, $1.50 (optional for those who have paid the fee in 2a). First Term: 7:00-8:00; Second Term: 8:10-9:10.

136s. Oral Reading and Interpretation. (2) I. Mattingly
The principles and practice of oral reading and the interpretation of various forms and moods of literature. Affords training in voice improvement, cultivation of imagination and discernment, emotional development and control, and effective action. Recording fee, $1.50 (optional for those who have paid the fee in 2a). 10:30-11:30.

171s. Classroom Technique in Speech Correction. (2) II. Burton
A course in the demonstration and practice of simple techniques in speech correction for the public schools, beginning with the kindergarten. Prerequisites, 2a and 5. 11:40-12:40.

182as-182bs. Advanced Problems in Speech. (2-2) I-II. G. Mattingly-Burton
Techniques and methods of research in speech: library, laboratory, or independent research on an individual problem; critical evaluations. (Conference hours to be arranged.)
ANNOUNCEMENT FOR THE SUMMER SESSION

ZOOLOGY

Assistant Professor Hunter.

4. General Zoology. (4) I. Hunter
   An introduction to the structure, physiology, development, and behavior of animals. Together with 8, 44, or 45, it constitutes a year’s course. Laboratory fee, $3. 8:10-9:10. (Lab. 9:20-12:20.)

116. Heredity. (2) I. G. Hunter
   The principles and problems of inheritance in plants and animals, including man. Prerequisite, 4 or Botany 1. 7:00-8:00.

Individual Studies. I. Hunter
   The Department makes available to the undergraduate student opportunity to work individually in special fields of study through Independent Study, fee $1 per unit (2-4); and to graduate students through Research, fee $1 per unit (2-4).