OFFICERS

OF THE

UNIVERSITY OF ARIZONA.

Course of Instruction

AND

General Information.

TUCSON, ARIZONA.
1891
University of Arizona
CALENDAR

FOR

1891-2

Wednesday, Sept. 30th...............Fall Term begins
Wednesday, Dec. 23d..............Fall Term closes (12 weeks)
Monday, Dec. 28th..................Winter Term begins
Tuesday, March 9th ...............Winter Term closes (11 weeks)
Wednesday, March 10th ............Spring Term begins
Wednesday, June 2nd.............Spring Term closes (12 weeks)
Thursday, June 3d...........Summer Course in field work begins
Wednesday, June 23d, Summer Course in field work ends (3 weeks)
Board of Regents.

MERRILL P. FREEMAN, President, - - - TUCSON
JOHN M. ORMSBY, Secretary, - - - TUCSON
SELM M. FRANKLIN, Treasurer, - - - TUCSON
JOHN GARDINER, - - - - TUCSON

Ex-Officio:

NATHAN O. MURPHY, Secretary of the Territory, - PHOENIX
GEO. W. CHENEY, Supt. of Public Instruction, - TOMBSTONE
FACULTY AND OTHER OFFICERS, in order of appointment.

Merrill P. Freeman, Chancellor

Frank A. Gulley, M. S.,
Professor of Agriculture, Dean of School of Agriculture Director of Experiment Station

Charles B. Collingwood, M. S.,
Professor of Chemistry

Vasa E. Stolbrand, C. E.
Professor of Mathematics and Irrigation Engineering

Theodore B. Comstock, Sc.D.,
Professor of Mining and Metallurgy,
Director of School of Mines

James W. Toumey, B. S.,
Professor of Botany and Entomology

__________________________
Professor of Horticulture

__________________________ U.S.A.,
Professor of Military Science and Tactics,
Assistant Professor of Mathematics

__________________________
Professor of Geology and Mineralogy

__________________________
Professor of Physics and Applied Mathematics

__________________________
Professor of Mechanical Engineering and Industrial Drawing

__________________________
Principal of Preparatory Department

3
AGRICULTURAL EXPERIMENT STATION

Board of Control:

BOARD OF REGENTS OF THE UNIVERSITY

Station Staff:

Frank A. Gulley, M. S.Director
Chas. B. Collingwood, M. S. Chemist
Vasa E. Stolbrand, C. E. Meteorologist,
Irrigation Eng.
James W. Toumey, B. S. Botanist,
Entomologist
Joseph H. Heberly Assist. Chemist
Mark Walker Horticulturist
Jesse R. May Stenographer
R. J. Ferguson Engineer
M. Moss, Phoenix Station, Foreman

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In 1881 the Congress of the United States made an appropriation of 72,000 acres of the public lands to Arizona, and the same to several other Territories, for the support of a University or institution of learning.

In 1882 the Superintendent of Public Instruction made a selection of the lands, but as no immediate revenue could be derived from the land, nothing further was done until the spring of 1885, when the Legislature of the Territory made an appropriation of $25,000 to found an institution of learning, which should be known as the “University of Arizona,” and located it “at or near the city of Tucson.”

The establishing act provided for the appointment of a Board of Regents “by the Governor of the Territory, by and with the advice and consent of the Council, two-thirds of the members of the Council concurring therein.”

In compliance with this Act a Board of Regents was
appointed, the Board formally organized, and a beginning made in the organization of the Institution.

A tract of land lying just outside of the limits of the city of Tucson was donated to the University, and selected by the Board as the University grounds. A building was planned and a contract entered into for its erection, in October, 1887, the building to cost $37,969.00.

Owing to lack of funds to complete the building and open the University to students, not much more was done except to continue the work on the building until other funds became available.

In 1887 an Act was passed by Congress appropriating to each State and Territory $15,000 per annum; "to promote scientific investigation and experiment respecting the principles and applications of agricultural science, there shall be established, under direction of the college or colleges, or agricultural departments of colleges in each State or Territory established, or which may hereafter be established, in accordance with the provisions of an Act approved July 2nd, 1862, entitled, 'An Act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts,' or any of the supplements to said acts, a department to be known and designated as an 'Agricultural Experiment Station.'"

In the Fall of 1889, the Board of Regents, acting in conjunction with the Governor of the Territory, took the initiatory steps "to establish an Experiment Station" in Arizona.

An Agricultural College was established as a part of the University, and a Director appointed, who was also elected Professor of Agriculture.

"After considerable labor on the part of the Board of
Regents, ably assisted by the Governor of the Territory, ten thousand dollars for Arizona, was, by the recommendation of the Secretary of Agriculture, placed in a deficiency bill, which included New Mexico and Utah. "This amount was made available in June of 1890, and the Board entered into contracts covering the amount allowed for the fiscal year ending June 30th, 1890." For the year ending June 30th, 1891, Arizona received her full quota, which, with the appropriation for 1890, has been expended in equipping four Agricultural Experiment Stations, one at the University, one at Phoenix, one three miles south of Tempe on the M. & P. Railway, and one near Yuma.

In 1862 an Act known as the "Morrill Bill" was passed by Congress, appropriating 30,000 acres of the public lands to each State for each Congressional representative, for the support of an Agricultural and Mechanical College. No funds from this source are yet available, but on August 30th, 1890, a supplementary bill which was passed by Congress, was approved, which appropriates to each State and Territory, commencing with the year ending June 30th, 1890, $15,000 for the first year, "and an annual increase of the amount of such appropriation thereafter for ten years, by an additional sum of one thousand dollars over the preceding year, and the annual amount to be paid thereafter to each State and Territory shall be $25,890, to be applied only to instruction in Agriculture, the Mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities of such instruction."

With the exception of one-fifth of the appropriation for Experiment Stations for the first year, and five per cent thereafter, the Acts provide that these funds may not be expended in the
erection or repairs of buildings. The first must be used to carry on investigations; the latter to equip and support schools of learning, it being intended that the several States shall supply land and buildings.

Arizona has received the appropriation of $15,000 for 1890, and $16,000 for 1891, and these sums are being expended in the equipment and support of the University.

In 1889 the Legislature of Arizona passed a bill appropriating three-fourths of a mill on each one dollar of the assessed value of all property in the Territory for the support and maintenance of the University. This Act was amended by the last Legislature, making the present annual appropriation one half of a mill.

From this source the University has had placed to its credit to June 30th, 1891, the sum of $33,395.89. The Territorial appropriation is being expended in the completion of the University building, and contracts are to be let July 15th for the construction of a dormitory for students, and two cottages for residences for members of the Faculty.

The University has received to date:

From the General Government for the Agricultural Experiment Station $25,000 00
From the General Government for the Equipment and Support of University 31,000 00
From the Territory for Equipment and Support of University 59,245 89
From all sources a total of $115,245 89

The Territorial enactment establishing the "University of Arizona" provides (Sec. 10) "The University shall consist of five departments:—

First.—The Department of Science, Literature and the Arts.
Second—The Department of Theory and Practice, and Elementary Instruction.

Third—The Department of Agriculture.

Fourth—The Normal Department.

Fifth—The Department of Mineralogy and the School of Mines.

"The immediate government of the several departments shall be entrusted to their respective Faculties, but the Board of Regents shall have the power to regulate the course of instruction and prescribe, under the advice of the Professorships, the books and authorities to be used in the several departments, and also to confer such degrees and grant such diplomas as are usually conferred and granted by other Universities."

The Board of Regents temporarily organized the Agricultural College in the Fall of 1889, and on October 19th, 1890, completed the organization of the University for the present, and the Experiment Station, which is made a department of the University, by establishing the third and fifth departments; the School of Agriculture, and the School of Mines.

The University building is nearly completed. The Chemical Laboratory is equipped and in working order, supplied with gas and water; and it is proposed to have everything ready for students at the beginning of the first session, September 30th, 1891.

The members of the Faculty have been appointed as shown under "Officers of the University."
School of Agriculture.

FRANK A. GULLEY, M. S.,
Professor of Agriculture, Dean of the Faculty

CHARLES B. COLLINGWOOD, M. S.,
Professor of Chemistry

VASA E. STOLBRAND, C. E.,
Professor of Mathematics and Irrigation Engineering

JAMES W. TOUMEY, B. S.,
Professor of Botany and Entomology

* Professor of Horticulture

* Assistant Professor of Mathematics and Instructor of Drawing

* Professor of Geology

* Chairs to be filled during the summer.
Course & Instruction.

Agricultural Course.

Freshman Year

Fall Term.

Algebra
Botany
English
Drawing
French

Winter Term.

Algebra
Botany
Composition
Drawing
French

Spring Term.

Geometry
Botany
Agriculture
Drawing
French

Exercises and recitations in English, and military tactics and drill throughout the year
SOPHOMORE YEAR.

FALL TERM.
Elementary Chemistry .........................................................
Geometry ...........................................................................
Horticulture ......................................................................
Spanish ..............................................................................
Horticultural Practice ..............................................................

WINTER TERM.
Chemistry ....................................................................................
Trigonometry ...........................................................................
Surveying ..............................................................................
Physics ....................................................................................
Spanish .....................................................................................
Field Work ..............................................................................

SPRING TERM.
Chemistry, Analytical .................................................................
Horticulture ...........................................................................
Hydraulics ..............................................................................
Spanish .....................................................................................
Chemical Laboratory Practice .....................................................
Special Training in Rhetoric and Elocution, Military Tactics and
Drill throughout the year ............................................................

UNIVERSITY OF ARIZONA

JUNIOR YEAR

FALL TERM

Physics .................................................................
Zoology ..............................................................
Horticulture .........................................................
German ...............................................................
Drawing ...............................................................

WINTER TERM

Physiology .............................................................
Chemistry of Soils ..................................................
Geology .............................................................
Practice ..............................................................
German ...............................................................

SPRING TERM

Entomology ..........................................................
Agricultural Chemistry ...........................................
Hydraulics ..........................................................
Irrigation ...........................................................
Practice Hydraulics .................................................
German .............................................................

English Studies and Military Tactics throughout the year.
UNIVERSITY OF ARIZONA

SENIOR YEAR:

FALL TERM.

Anatomy ..................................................
Veterinary Practice ..................................
Meteorology ...........................................
Astronomy ..............................................
Preserving Fruits ....................................
German ..................................................
Horticultural Practice .............................

WINTER TERM.

Farm and Irrigation Laws ............................
Landscape Gardening .................................
Agriculture ...........................................
Constitutional History ..............................
German ................................................
Botanical Laboratory Practice ..................

SPRING TERM.

Advanced Botany .....................................
Political Economy ...................................
Chemistry, Agricultural ............................
Laboratory and Field Practice ..................
German ................................................

English and Military Tactics throughout the year.
ENGINEERING COURSE.

The engineering course is the same as the Agricultural course to the end of the Fall Term of the Junior Year.

JUNIOR YEAR.

WINTER TERM.

Higher Algebra ...............................................................
Chemistry of Soils ...........................................................
Geology ..............................................................................
German .................................................................
Drawing .............................................................................

SPRING TERM.

Analytical Geometry ...........................................................
Physics .................................................................................
Irrigation Hydraulics ...........................................................
Hydraulic Practice .............................................................
German ..............................................................................

English and Military Tactics throughout the year.
UNIVERSITY OF ARIZONA

SENIOR YEAR

FALL TERM.

Calculus .................................................................
Meteorology .............................................................
Astronomy ...............................................................
Hydraulics ............................................................... 
German .................................................................
Hydraulic Practice .....................................................

WINTER TERM.

Farm and Irrigation Law .............................................
Hydraulics ............................................................
Calculus ............................................................... 
Constitutional History ............................................... 
German ............................................................... 
Engineering, Laboratory or Field Practice ..................

SPRING TERM.

Canals, Reservoirs ....................................................
Political Economy .....................................................
Strength of Materials ............................................... 
German ............................................................... 
Field Practice ........................................................

English and Military Tactics throughout the year.
The instruction in the School of Agriculture is designed to impart a knowledge of the natural sciences and their applications to the arts of life, particularly agriculture.

Chemistry, Botany, Horticulture, and the use of water in irrigation will receive special attention, both in theory and in practice. The studies of the class room will be supplemented by laboratory and field work practice. The University grounds and the several Experiment Stations in the Territory are to be used as means of illustration.

In addition to the prescribed work of thirty-five weeks in the University, students will be required to spend three weeks at other Stations, and on the fruit farms of the Territory during the year, studying and practicing the details of experimental, and farm work, and irrigation, under the supervision of members of the Faculty.

Facilities will be provided for instruction and practice in the several branches of Agriculture and Horticulture, and in surveying, levelling, general arrangement of farms, road making, planning and constructing buildings and fences, care of machinery, laying out canals and ditches, measurement of water, etc.

Provision is made for two regular courses leading to the degree B. S. (Bachelor of Science), and advanced studies leading to the Degree M. S. (Master of Science); C. E. (Civil Engineer) and I. E. (Irrigation Engineer).
School of Mines.

The Board of Regents, recognizing the vast resources of Arizona in metalliferous deposits and the great importance of their thorough and economical development by well trained engineers, have appropriated a large portion of the available University funds for the establishment and equipment of a School of Mines, in which instruction may be given in the theory and practice of Mining and Metallurgy, and related subjects. Dr. Theo. B. Comstock has been elected Director of the School of Mines, and under his supervision a corps of instructors has been engaged, laboratories and other facilities have been provided, so that it is possible to announce courses of study and to outline the plans upon which the work will be conducted.

Provision is made at present for two regular courses leading to the degree of Bachelor of Science, higher degrees of M. E. (Mining Engineer) and Met. E. (Metallurgical Engineer) may be obtained by further advanced study upon terms which will be made known on application.
FACULTY.

Theo. B. Comstock, Sc. D.,
Professor of Mining and Metallurgy, Director.

Charles B. Collingwood, M. S.,
Professor of Chemistry

Vasa E. Stolbrand, C. E.,
Professor of Mathematics

*Professor of Geology and Mineralogy.

*Professor of Physics and Applied Mathematics

*Professor of Mechanical Engineering and Industrial Drawing.

*Chairs to be filled whenever the needs of the School require such action; probably about the time of opening the School in 1891.
MINING COURSE.

FRESHMAN YEAR

FALL TERM.
Algebra .................................................................
Projection Drawing ..............................................
Chemistry ............................................................
French .................................................................

WINTER TERM.
Advanced Algebra ................................................
Descriptive Geometry and Lettering ..........................
Chemistry ............................................................
French .................................................................

SPRING TERM.
Geometry ..............................................................
Free Hand Drawing ................................................
Chemistry ............................................................
French .................................................................
Exercises and recitations in English, and Military Tactics and Drill throughout the year ...........................................
SOPHOMORE YEAR.

FALL TERM.

Geometry .................................................................
Theory of Instruments ..............................................
Physics .................................................................
Spanish .................................................................

WINTER TERM.

Trigonometry and Land Surveying ..............................
Physics .................................................................
Spanish .................................................................

SPRING TERM.

Calculus .................................................................
Surveying ...............................................................
Topographical ..........................................................
Physics .................................................................
Spanish .................................................................

Special Training in Rhetoric and Elocution, Military Tactics and Drill throughout the year ........................
UNIVERSITY OF ARIZONA

JUNIOR YEAR:

FALL TERM:

Analytical Mechanics ..........................................
Mine Surveying .............................................
Mineralogy ..................................................
German .....................................................

WINTER TERM:

Resistance of Materials ........................................
Geology .....................................................
Assaying ...................................................
German .....................................................

SPRING TERM:

Thermodynamics .............................................
Geology .....................................................
Metallurgy ................................................
German .....................................................

English Studies and Military Tactics throughout the year.

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UNIVERSITY OF ARILONA

SENIOR YEAR.

FALL TERM.

Mining Engineering, (Attach, Support, Etc.) ...........................................
Engineering Geology ..........................................................................
Wind Wheels, and Hydraulic Engineering ...........................................
Practical Mining Work ..................................................................

WINTER TERM.

Mining Engineering .................................................................
Memoirs ..............................................................................
Practice ............................................................................
Constitutional History ........................................................

SPRING TERM.

Mining Engineering .................................................................
Mine Administration ..................................................................
The thesis and Practice .........................................................
Political Economy ..................................................................

English and Military Tactics (as officers) throughout the year.

The scope of instruction given in the specialties of this course is given below in convenient order.

MINE SURVEYING AND RECONNOITERING.

History, uses and adjustments of instruments; solar compass and various solar attachments; practical problems involving the running of surface lines and lines under ground, connecting of surface and under-ground surveys; practice of U. S. deputy surveyors. Details of mine surveys, setting of bench marks; lines through shafts, drifts, stopes, etc.; keeping of records,
plans, etc. Surveys required to determine best locations for test borings, shafts, adits, etc.; methods of reconnoitering.

MINING ENGINEERING.

1. Attack.—Tools, implements, machinery, and explosives, with principles governing their use. Methods of boring; sinking, and driving through hard, soft, wet, dry, loose, or compact material.

2. Timbering.—Objects, methods, etc.; framing, fitting, bracing.

3. Transportation.—Underground haulage, hoisting, use of chutes, apparatus and appliances, cars, tracks, switches, cables, cages, motive power, connections, haulage in inclines, “man engines,” etc.

4. Drainage.—Pumps, pumping, sumps, ditches; drainage of working shafts and inclines.

5. Ventilation.—Means and appliances. Importance of subject; laws of various states and countries. Discussion of fundamental principles and practical applications, with results.

6. Buildings and Machinery.—Hoisting apparatus, air compressors, power drills, etc.

7. Exploration.—To determine general character and extent of deposits in advance of development; methods and aims.

8. Development.—Blocking out of deposits to prove values of partly explored ground, and to prepare for further explorations.

Exploitation.—Laying out work; winning of coal, ore, etc.; stoping, overhand and underhand; winzes and intermediate levels; economical handling of product. Methods to be employed under various conditions.

Dislocations.—Faults, upthrows, downthrows, feeders, leaders, rolls, swells, etc. Means of overcoming difficulties.

Dressing of Products.—Coal screening and washing;
UNIVERSITY OF ARIZONA

sampling and grading ore; assorting, crushing, spalling, cobbing, concentrating.

MINING MACHINERY.—Elements of construction, designing of plant, combination of parts; setting, arranging, adjusting. Preservation and operation; general economy.


ADMINISTRATION.—Review of principles. System of reports from sub-officers, and tabulation of records. Accounts, forms, analyses, pay rolls, cost sheets, etc. Letting and measuring contracts. Miscellaneous details.

ENGINEERING GEOLOGY.—Applications of geology to engineering and mining. Nature and distribution of deposits of economic value, as coal, water, metallic ores, etc.; advanced structural geology and lithology; discussion of principles underlying successful working of mines, placing of foundations, setting of machinery, and erection of structures in various situations. Relations of geological structure to drainage, economy of working, selection of points of attack, methods of exploration, etc.

This department is equipped with a very complete plant of machinery now being placed in position and with all necessary apparatus and appliances for illustrating the more important methods.

Additions will be made as rapidly as the funds available will permit and the needs of the School may require.
Course in Metallurgy.

This course is identical with the Mining Course in the Freshman and Sophomore Years, except that the subjects relating to Surveying in the Sophomore year of that course, are replaced by equivalent special work in the Chemical and Physical Laboratories.

In the later years the course in Metallurgy is as below:

JUNIOR YEAR:

FALL TERM.
Analytical Mechanics .....................................................
Mineralogy .................................................................
Analysis of Ores ...........................................................
German ..........................................................................

WINTER TERM.
Resistance of Materials ..................................................
Geology ...........................................................................
Assaying .........................................................................
German ...........................................................................

SPRING TERM.
Thermodynamics .............................................................
Geology ...........................................................................
Metallurgy .......................................................................
German ...........................................................................

English Studies and Military Tactics throughout the year.
SENIOR YEAR

FALL TERM

Metallurgy (raw material) ...........................................
Analysis of Fuel ......................................................
Wind Wheels and Hydraulic Engines ................................
Practical Metallurgic Work .........................................

WINTER TERM.

Metallurgy ............................................................
Memoirs ...............................................................
Practice ...............................................................
Constitutional History .............................................

SPRING TERM.

Metallurgy ............................................................
Administration .....................................................
Thesis and Practice .................................................
Political Economy ..................................................

English and Military Tactics throughout the year.

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REQUIREMENTS FOR ADMISSION.

Candidates for admission into the Freshman class in the University must be at least sixteen years of age, of good character, and must pass a thorough examination in Arithmetic, Geography, Grammar, and History of the United States, and show evidence that they have a sufficient knowledge of language to write a short essay in good English on some assigned topic.

A knowledge of Elementary Algebra is desirable, in fact almost essential to enable a student to keep up with the prescribed work of the class.

ADMISSION FROM OTHER SCHOOLS.

Graduates of Schools in Arizona having a regular course of study will be admitted upon the presentation of certificates from principals of such Schools, provided the course of instruction is such as to warrant a suitable preparation.

Schools desiring to enter into the foregoing relation with the University will be informed as to what studies are necessary to enable their students to enter, by conferring with the Secretary of the Faculty.

ADMISSION TO ADVANCED STUDIES.

Students desiring to enter any class after the first year, or during the year, will be required to pass the regular entrance ex-
amination, and also an examination in such studies as the class may have passed over, or equivalent studies.

**SELECT COURSE.**

Persons of suitable age and requirements desiring to study special branches taught in the University, may, under certain limitations, and at the discretion of the Faculty, pursue such a course of study, but the work must be equal to that of the regular courses.

**GRADUATE STUDENTS.**

Graduates of the University, or from other Colleges, will be received without tuition or matriculation fees, and will be entitled to such degrees as are conferred by the University after passing examinations satisfactory to the Faculty.

**SPECIAL STUDENTS.**

Recognizing the fact that there are in the Territory certain persons of mature age who feel that they cannot spare the time to take up a regular course of study, but who feel the need of instruction in certain things that would materially assist them in their callings, the Board of Regents have made provision for a short course of technical study in the two Schools of the University, subject to certain limitations.

This class of instruction must, of necessity, be restricted to those subjects which are not dependent on prior training in special lines.

It is not proposed to encourage superficial work, nor can the time of the Faculty be given to those who desire to study a subject
for which they are not prepared. For these reasons applications of students for a special course must be considered individually, with a clear understanding of all the circumstances.

Applications of students should be forwarded to the head of the School of Agriculture, or of the School of Mines, stating what is desired and what qualifications the applicant may have to fit him for the course.

At present the special subjects which can be taught in the School of Mines are Assaying, Photography, Drawing, possibly some others. In the School of Agriculture, propagation of plants, budding, grafting, pruning, preserving fruits, destroying injurious insects, irrigation, use of level and compass, laying off ditches, and such work as may be understood without special training.

Applicants may begin such studies at any time during the year when members of the Faculty have time for the work. While at the University they will be enrolled as students and subjected to the rules of the institution. No charge will be made by the University for such instruction, except for material used.

No entrance examination will be required as a rule, and no formal certificate of proficiency can be given, but any special student who has complied with all the requirements will be entitled to a written document setting forth the facts.

Applicants must be at least eighteen years of age, and they will be expected to present references with application, in regard to character and industrious habits.
Preparatory Course.

Principal.

Course of Instruction.

**FALL TERM**

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<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Arithmetic</td>
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<tr>
<td>English</td>
</tr>
<tr>
<td>History</td>
</tr>
<tr>
<td>Writing</td>
</tr>
<tr>
<td>Drawing</td>
</tr>
<tr>
<td>Drill</td>
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</tbody>
</table>

**WINTER TERM**

<table>
<thead>
<tr>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>Arithmetic</td>
</tr>
<tr>
<td>U. S. History</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Writing</td>
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<tr>
<td>Drawing</td>
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<tr>
<td>Drill</td>
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</tbody>
</table>

**SPRING TERM**

<table>
<thead>
<tr>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>Algebra</td>
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<tr>
<td>English</td>
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<tr>
<td>Physical Geography</td>
</tr>
<tr>
<td>Drawing</td>
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<tr>
<td>Drill</td>
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</tbody>
</table>
UNIVERSITY OF ARIZONA

The preparatory course is designed for such students as do not have facilities at home, to prepare them for entering the regular classes in the University Schools.

In the establishment of this department of the University it is not the intention at present to afford opportunity for a common school education, but simply a school that will prepare students for taking up the technical work of the Schools now organized in the University.

For entrance into the preparatory school students will be required to pass an examination that will show that they have some knowledge of arithmetic, grammar, geography, and be able to write legibly and spell simple common words correctly.

Students in this department must be not less than sixteen years old, and they will be under the same rules and discipline as other students of the University.

EXPENSES.

Matriculation fee, to be paid but once, $5.00. Tuition free.
Students will be charged for materials used in laborities.
No provision is made for boarding students at the University but a dormitory will be built as soon as means permit.
Furnished rooms in Tucson to accommodate two persons, may be had at from eight to twelve dollars per month, and board costs from fifteen to twenty-five dollars per month.
Books will cost from eight to fifteen dollars per year,
Should it be found advisable to organize the Military Department during the first year, all students will be required to procure an undress uniform,
For further information address Secretary of University Faculty.

TUCSON CITIZEN PRINT.