

CIRCULAR AND CATALOGUE

OF THE

ARIZONA TERRITORIAL NORMAL SCHOOL

TEMPE, ARIZONA.

1890-1891.



BOARD OF EDUCATION.

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The regular meetings of the Board take place the first week
in January and in June of each year.

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FACULTY.

DAYTON A. REED.....PRINCIPAL
Teacher of Language, Mathematics and Pedagogy.

EDGAR L. STORMENT.....
Teacher of Reading, History, Literature and Natural Science.

HISTORY.

The Arizona Territorial Normal School was established at Tempe by an Act of the Thirteenth Legislature, amended and re-enacted March 10, 1887.

The objects of the school were declared by the said Act to be the instruction of persons, both male and female, in the art of teaching, and in all the various branches that pertain to a good common school education; also, to give instruction in the mechanical arts and in husbandry and agricultural chemistry, in the fundamental law of the United States, and in what regards the rights and duties of citizenship.

The school has been in active operation for four years, during which time there have attended the institution seventy-nine students, and eleven have been graduated, eight of whom have taught in the public schools of the Territory since graduation.

Others who have not graduated are doing active and meritorious work in the schools.



GENERAL INFORMATION.

LOCATION.

The Territorial Normal School is located at Tempe, Maricopa County, on the line of the Maricopa and Phoenix railroad.

Its situation is in a healthy locality and in the midst of a farming community characterized by industry, thrift, good morals and good order.

QUALIFICATIONS FOR ADMISSION.

Applicants for admission must not be less than fifteen years of age.

They must be of good morals and of industrious habits.

They must be able to pass an examination showing their ability to parse the words of any ordinary sentence; to solve any problem in arithmetic up to and including common and decimal fractions; in geography, to bound any State or Territory and locate the principal rivers, cities, etc., of the world; to write a legible hand, and to read intelligently.

Applicants holding Arizona Territorial or County Certificates, or Diplomas of Graduation from any public Grammar or High School, will be admitted without examination.

Regular examinations for admission will be held on the first and second days of each term.

For the accommodation of students entering later in the term, special examinations will be given on Monday of each week.

ACCOMMODATIONS.

The Normal School building is situated on a twenty-acre tract of land, and is a brick structure, sixty by seventy feet in size, and one

story high. A ten-foot hall extends through the building from north to south.

Four rooms are provided, each thirty feet square.

The entrance to the hall at each end is by double doors; and windows placed at regular intervals of a few feet around the rooms afford ample light and ventilation.

The building is surmounted by a high roof, leaving a space of eight feet between the roof and the ceiling. The entire structure is surrounded by a veranda twelve feet wide. Ventilators admit the passage of air in every direction, thus providing as cool a building as can be devised for this climate.

APPARATUS.

The school is provided with excellent apparatus for illustrating the various subjects taught, and additions will be made to the supply of chemical, philosophical, and other apparatus as the same may be needed.

The Normal Library will be further increased during the coming year by the purchase of additional books of reference, especially in the line of school work, encyclopædiæ, history, etc.

MUSEUM.

We respectfully solicit the friends of education to assist us in the collection of specimens of birds, insects, minerals, etc.; also, fossils and archeological specimens.

All contributions should be boxed carefully and sent by express.

The name of the donor should in no case be omitted.

EXPENSES.

The average cost for books, supplies, etc., will be about \$15.00 per pupil for each year.

Good board and lodging can be obtained in private families for \$20.00 per month. By the formation of clubs, expenses may be reduced much below this.

Tuition is free to those who obtain an appointment from a member of the Legislature; and to those who sign a declaration that they attend the school for the purpose of preparing themselves for teaching in the public schools of Arizona. All others are charged one dollar per month.

GRADUATION

In order to graduate, the student must be at least eighteen years of age, must have attended the school for a period of at least twenty-two weeks, and must pass a written examination in all the studies of the course.

If it appears from the resulting papers and the record of daily recitations and deportment that the applicants for graduation possess the learning and other qualifications necessary to teach a good common school, said persons shall receive certificates of graduation, which will entitle the holders to teach a grammar school in any county in the Territory of Arizona.

DISCIPLINE.

In a Normal School little need be said concerning discipline.

It is expected that every pupil will exhibit in his daily conduct those qualities of head and heart which should always distinguish the earnest learner and teacher.

The ability to control others is never found in those who cannot control themselves. In accordance with this principle, the pupils will be expected so to conduct themselves as to merit the appellation of true men and women—an honor to themselves and their communities.

SUGGESTIONS.

It is suggested that students purchase no books until they have consulted their teachers, but it is well to bring those which they already possess.

We earnestly solicit Teachers and County Superintendents to urge upon those who intend to become teachers the importance of entering some department of the Normal School (the pedagogical

certainly), for the sake of obtaining that helpful training, the lack of which has hampered so many of our educators.

County Superintendents and Boards of Trustees in want of teachers are respectfully and earnestly solicited to communicate with the Principal of the Normal School.

Although the primary idea of the Normal School is to prepare, for the schools of the Territory, a supply of teachers, trained and equipped for their work, it is also intended to furnish an opportunity to the youth of our country to secure an education beyond that possible in the Grammar School, and to round out and complete the Common School system of the Territory.

The course of study at the Normal School will therefore follow that of the Public Schools in regular sequence, and pupils, on completing the Grammar course, will be eligible to admittance to the Normal, and we request the School Principals that they second our efforts in this direction.

To parents throughout the Territory we offer an opportunity to educate their children at home, and feel confident that with their cordial co-operation the Arizona Normal School will soon rank with corresponding institutions in the States and other Territories.



COURSE OF STUDY.

	FIRST YEAR.			SECOND YEAR.			THIRD YEAR.		
	1	2	3	1	2	3	1	2	3
Reading	†	†	†						
Geography	†	†	†			†			
Grammar	†	†	†						†
History	†	†	†						
Drawing	†	†	†						
Arithmetic	†	†	†	†	†				†
Spelling	†	†	†	†	†	†			
Writing				†					
Rhetoric*				†					
Zoology				†					
Bookkeeping					†				
Physics					†				
Physiology					†				
Botany						†			
Word Analysis						†			
Pedagogy						†		†	†
Algebra				†	†	†	†	†	
Geology*							†		
School Law and Ethics *							†		
Geometry							†	†	
Chemistry								†	
Civil Government									†
Astronomy									†
English Literature									†
Callisthenics†									

† Indicates the place of the study in the Course.

† Every Day.

* Optional.

REMARKS ON THE COURSE OF STUDY.

The Course of Study has been arranged in accordance with the order of mental development, and the successive studies are intended to furnish the healthful, educative discipline which the growing mind requires in order to produce complete and distinctive character.

Believing that there is no subject of human thought which will not return large dividends, in the form of mental growth, to an investment of earnest, sustained labor, the course has, nevertheless, been composed of those studies which will be of practical benefit in every-day life, as well as conducive to higher intellectual ability.

The importance of following the course in the selection of work can not be urged too strongly upon the student.

No time is lost in finishing the lower branches before proceeding to the higher, and much is gained in the way of clearer comprehension, definiteness of ideas, and more tenacious memory.

Pupils are requested not to leave any study half-done, unless it is impossible to do otherwise.

Fragmentary knowledge, though indeed of much worth, is not to be compared for a moment to that deep, thorough, connected knowledge which distinguishes the true scholar.



TIME TABLE.

FIRST TERM.

1. C. Arithmetic.	C. Reading.
2. E. Algebra.	C. Geography.
3. F. Arithmetic.	Writing.
4. P Grammar.	Rhetoric.
5.	C. History.
6. B. Geometry.	C. Drawing.
7. School Law and Ethics.	Zoology.
8. B. Algebra.	Geology.

SECOND TERM.

1. B. Arithmetic.	B. Geography.
2. P ^C Grammar.	Physiology.
3. Bookkeeping.	B. History.
4. Physics.	B. Drawing.
5. E. Arithmetic.	Theoretical Pedagogy.
6. A. Algebra.	B. Reading.
7. D. Algebra	Chemistry.
8. B. Geometry.	

THIRD TERM.

1. A. Arithmetic.	A. Reading.
2. X ^B Grammar.	Physical Geography.
3. Practical Pedagogy.	A. Geography.
4. D. Arithmetic.	Botany.
5. C Algebra.	{ Word Analysis,
	{ Civil Government.
6. History of Education.	A. Drawing.
7. P ^A Grammar.	English Literature.
8. Astronomy.	A. History.



SYLLABUS.



PEDAGOGY.

PRACTICAL PEDAGOGY.

Brief study of the mind; the teacher; the pupil; the parent; the school house and grounds; school management; discipline; recitations, etc.

THEORETICAL PEDAGOGY.

More complete study of the mind and senses; cultivation of memory, judgment, reason, imagination, etc.; the emotions; the will; nature and use of punishment.

HISTORY OF EDUCATION.

Biographies of noted educators; discussion of their methods, theories, and attainments; a thorough examination of the educational value of common public schools.

SCHOOL LAW AND ETHICS.

The right; the conscience; motives; passions; habit; different ethical systems.

An analysis of the school law of Arizona.

GEOGRAPHY.

FIRST TERM.

North America, South America, United States—contour, relief, drainage, islands, cities, peoples, commerce, religions, governments, etc.; United States in detail. Particular attention to the topography and resources of Arizona.

SECOND TERM.

Europe and Asia treated in the same manner as above.

THIRD TERM.

Africa, Australia, Oceanica special studies of recent explorations; mathematical geography. Attention will be given to map drawing and the approved methods of presenting geography to the learner throughout the course.

FOURTH TERM.

Physical geography; the earth as a planet—its history, continents, relief, drainage, vegetation, climatic influences, winds, currents, zones; distribution of life; the human family, etc.

HISTORY.**HISTORY OF UNITED STATES.**

Voyage and discovery; settlement; character, manners and customs of settlers; French and Indian wars; causes of the Revolution; the Revolution; formation of Federal government; civil, political and military events to Civil War; causes, history and results of the Rebellion; reconstruction; commerce; invention; changes of parties and politics; growth of literature, etc.

GENERAL HISTORY.

Egypt; Greece; Rome and Carthage; Imperial Rome; the Christian religion; the Goths; dissolution of the Roman Empire and rise of the modern nations; the Saracens; the Mohammedan religion; mediæval history; the Renaissance; modern history; the progress of liberty, etc.

CIVIL GOVERNMENT.

Different forms of government; peculiarity of that of United

States; Colonial governments; Articles of Confederation; the Constitution; Territorial and State governments.

MATHEMATICS.

ARITHMETIC.

Notation; numeration; fundamental rules; drill; short methods; fractions; decimals; denominate numbers; ratio and proportion; percentage; the three problems; applications of percentage; alligation, medial and alternate; evolution and involution; progression; annuities; mensuration. Special attention to the United States system of land survey. Readiness, speed, accuracy and thorough comprehension of the subject will be the result sought in mathematics.

The last term of the last year will include a review of the fundamental operations, fractions and percentage, with special reference to methods of teaching.

ALGEBRA.

Literal notation; fundamental operations; factors; divisors; multiples; equations; involution; evolution; theory of exponents; radicals; quadratic equations; proportion; permutations and combinations; progression; binomial theorem; series; properties of equations.

GEOMETRY.

Preliminary definitions; straight lines; angles; polygons; proportion; the circle; measurement of polygons and circles; planes; solid geometry; practical geometry.

ASTRONOMY.

The earth and the heavens; motions of the earth; planetary motions; laws of motion and gravitation; the moon; eclipses; solar system; constellations; nebulae; astronomical instruments.

ENGLISH LANGUAGE.

READING.

Phonics; orthography; articulation; accent and emphasis; position; breath; gesture; vocal organs; methods of teaching beginners, advanced pupils. Special attention to English and American literature.

ORTHOGRAPHY.

Oral and written; definitions; diacritical marks; use of dictionary; cultivation of an observant habit regarding words.

GRAMMAR.

Orthography; classification of letters and sounds; parts of speech; parsing; syntax, sentence, phrase, clause, punctuation and capitalization; methods of teaching practical points of grammar.

Daily drill in correct speech and close criticism of all written work.

RHETORIC.

Purity, propriety, precision, clearness, etc.; rhetorical figures; style; composition.

ENGLISH LITERATURE.

Biographies of leading authors from Chaucer to the present day, including a special study of American authors. Classical selections read throughout the course.

WORD ANALYSIS.

Classes of words; rules for spelling; the Latin element; the Greek element; the Anglo-Saxon element; miscellaneous derivatives; terms used in school studies.

NATURAL SCIENCE.

BOTANY.

Plant growth; roots, seeds, stems; flowers; fruits; germination; uses; classification; distribution; practical observations.

PHYSIOLOGY.

Minute structure of the body; organs of motion; organs of repair; nervous system; the skin; special senses; organs of speech; stimulants and narcotics; hygienic and anatomical instruction constantly.

ZOOLOGY.

System of classification; protozoa; sponges; jelly fishes; erinoids; worms; shells; crustaceans; insects; vertebrates; fishes; amphibians; reptiles; birds; mammalia. Elementary instruction in taxidermy will be given if desired.

PHYSICS.

Properties of matter; dynamics; hydrostatics; hydrokinetics; pneumatics; acoustics; heat; optics; electricity. All subjects illustrated by experiments.

NATURAL SCIENCE.**CHEMISTRY.**

Inorganic Chemistry—Elements; metals; gases; acids; salts; bases; nomenclature, etc. Organic chemistry. Constant illustration by experiment.

GEOLOGY.

General survey of the earth's features; rocks—kinds, conditions, arrangements, etc.; historical geology; dynamic geology. Illustrations by specimens, where possible.

WRITING, DRAWING AND BOOKKEEPING.**WRITING.**

Position; finger, whole-arm and fore-arm movements; form and size of letters; analysis.

DRAWING.

Straight lines; curves; designs; conventional forms; geometrical drawing; object drawing; perspective; use of crayons, etc.

BOOKKEEPING.

General definitions and explanations; form and use of the different books; practical work; business terms; double and single entry.



STUDENTS 1889--1890.

JUNIOR CLASS.

NAME.	POSTOFFICE.	COUNTY.
Hattie Bryant	Tempe	Maricopa
Josephine Carroll	Tempe	Maricopa
Fannie Cavness	Tempe	Maricopa
Thomas Corbell	Tempe	Maricopa
Louis Corbell	Tempe	Maricopa
Edward Coughran	Williamson Valley	Yavapai
Leslie Everman	Mesa	Maricopa
Thomas Farish	Vulture	Maricopa
Thomas Flannagan	Mesa	Maricopa
Josephine Frankenberg	Tempe	Maricopa
Lee Gray	Phoenix	Maricopa
Fannie Hawley	Mesa	Maricopa
Mary Hoover	Tempe	Maricopa
Cassie Johnson	Mesa	Maricopa
Anna King	Yuma	Yuma
George Lewis	Mesa	Maricopa
George Mahard	Mesa	Maricopa
Clara Miller	Tempe	Maricopa
Iebbie Morris	Fort Verde	Yavapai
William Mullen	Tempe	Maricopa
Rosetta Pomeroy	Mesa	Maricopa
Cassie Porter	Tempe	Maricopa
Belle Robson	Mesa	Maricopa
Romeo Root	Tempe	Maricopa
Anna White	Tempe	Maricopa
Lucy Wills	Agua Caliente	Maricopa
Charles Woolf	Tempe	Maricopa

SENIOR CLASS.

NAME.	POSTOFFICE.	COUNTY.
Nanna Brown	Tempe	Maricopa
Lena Coughran	Williamson Valley	Yavapai
Russell White	Tempe	Maricopa

ALUMNI.

CLASS OF 1886-1887.

NAME.	BUSINESS.	POSTOFFICE.
✓ Reese M. Ling.....	Taught two years—lawyer.....	Prescott
✓ Georgie Holmesley.....	Taught three years.....	Cave Creek
✓ Gertrude Pomeroy*.....	Taught two years.....	
✓ Etta Broomell..... (Mrs. John Johnson.)	Taught two years.....	Tempe
✓ J. H. McClintock.....	Taught three years—printer.....	Phoenix

CLASS OF 1887-1888.

NAME.	BUSINESS.	POSTOFFICE.
✓ Martha Sears.....	Taught two years.....	Phoenix
✓ Kate Cummings..... (Mrs. Fisher Bailey.)	Taught two years.....	Tempe
✓ Henry Q. Robertson.....	Taught two years.....	Armer, Gila Co

CLASS OF 1889-1890.

NAME.	POSTOFFICE.
✓ Lena Coughran.....	Williamson Valley
✓ Nanna Brown.....	Tempe
✓ Russell Whitet.....	Tempe

* Deceased.

† Received certificate of course finished.



CALENDER FOR 1890--1891.

The school year will consist of a continued session of ten months.

The First Term begins on Monday, September 1, 1890, and ends Friday, December 19, 1890.

The Second Term begins December 29, 1890, and ends March 20, 1891.

The Third Term begins March 23, 1891, and ends June 12, 1891.



TEXT BOOKS.

Reading	Cumnock's Choice Readings.
Rhetoric	Quackenbos.
English Literature	Shaw.
Word Analysis	Swinton.
Political Geography	Harper.
Physical Geography	Appleton.
Arithmetic	Robinson.
Algebra	Robinson.
Geometry	Robinson.
Astronomy	Ray.
Zoology	Holder.
Physics	Avery.
Physiology	Tracy.
Botany	Gray.
Geology	Le Conte.
Chemistry	Clarke.
Grammar	Conklin.
History, United States	Eggleston.
General History	Swinton.
History of Education	Compayre.
Practical Pedagogy	Hewitt.
Theoretical Pedagogy	Landon.
Ethics	Peabody's Moral Philosophy.
Orthography	Swinton.
Drawing	Krusi.
Writing	Spencer.
Civil Government	Andrew's Constitution.
Bookkeeping	Bryant and Stratton.



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