

NINTH ANNUAL CATALOGUE

OF THE

OFFICERS AND STUDENT'S

OF

Corvallis State Agricultural College,

CORVALLIS, OREGON.

1873--1874.



SALEM, OREGON :

E. M. WAITE, BOOK AND JOB PRINTER.

1874.

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MR. A. CAUTHORN.....*Treasurer.*

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MR. R. W. BROCK.

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REV. A. E. SEARS.

# Faculty.

---

B. L. ARNOLD, A. M.,

PRESIDENT AND PROFESSOR OF MORAL PHILOSOPHY AND PHYSICS.

REV. J. EMERY, A. M.,

PROFESSOR OF MATHEMATICS.

B. J. HAWTHORNE, A. M.,

PROFESSOR OF LANGUAGES.

MISS IRENE SMITH,

PREPARATORY DEPARTMENT.

MISS VIOLA BRIGGS,

MUSIC DEPARTMENT.

CAPT. D. B. BOSWELL, U. S. A.,

PROFESSOR OF MILITARY SCIENCE.

# Alumni et Alumnae.

1870.

JAS. K. P. CURRIN, B. S.....Cottage Grove.  
ROBT. McVEATCH, B. S.....Cottage Grove.  
ALICE E. BIDDLE, B. S.....Corvallis.

1871.

GEO. F. BURKHART, B. S.....Lebanon.  
H. McN. FINLEY, A. B.....Corvallis.  
JAS. D. FOUNTAIN, B.S.....Jacksonville.  
W. R. PRIVETT, B. S.....Corvallis.  
MARY J. HARRIS, B. S.....Corvallis.  
FANNIE J. KENDOLL, B. S.....Corvallis.

1872.

THOMAS C. ALEXANDER, B. S.....Benton County.  
JOHN EGLIN, B. S.....Benton County.  
ROSA JACOBS, B. S.....Corvallis.  
ALONZO J. LOCKE, B. S.....Corvallis.  
JAS. K. P. WEATHERFORD, B. S.....Linn County.

1873.

LEANDER N. LIGGETT, B. S.....Albany.  
CLARA THAYER, B. S.....Corvallis.  
WILLIAM F. HERRIN, B. S.....Jacksonville.  
OSCAR L. ISON, B. S.....Baker City.

## Agricultural Department.

NAMES.	RESIDENCE.
Baxter Perry M.....	Corvallis.
Bell Charles H.....	“
Brock George.....	“
Bryson John R.....	Brownsville.
Crissinger H. French.....	Corvallis.
Clingman Horace.....	Peoria.
Crawford Thomas H.....	Norton's.
Crawford William C.....	“
Crees Harris W.....	Corvallis.
Dixon George W.....	“
Flett James J.....	Roseburg.
Fuller George W.....	Corvallis
Fuller Reuben A.....	“
Grant Alexander.....	Portland.
Grimes Geo. A.....	Harrisburg.
Horning Thomas H.....	Corvallis.
Job Zephin.....	“
Keesee Henry W.....	“
Kennedy Joseph R.....	“
Lent George P.....	East Portland.
Lowell James.....	Buena Vista.
Linn Philip E.....	Eagle Creek.
May John W.....	Oregon City.
Mensor Abraham.....	Jacksonville.
Rickard Andrew J.....	Junction City.
Rickard Peter.....	Starr's Point.



NAMES.	RESIDENCE.
Right John.....	Corvallis.
Scears Lewis.....	Cottage Grove.
Taylor Emmet H.....	Corvallis.
Thompson Newton A.....	“
Vineyard John W.....	“
Young John E.....	Fort Klamath.
Total.....	32.



## College Department.

NAMES.	RESIDENCE.
Allen Addie M.....	Corvallis.
Allen Maggie E.....	“
Baldwin Ida.....	“
Bayley Cora.....	“
Bayley Lizzie.....	“
Bayley Eva.....	“
Bowerline' Maggie.....	“
Brock Clara*.....	“
Bryson Annie L.....	Brownsville.
Burnett Alice E.....	Corvallis.
Burnett Ida.....	“
Butterfield Ella.....	“
Butterfield Maggie.....	“
Caldwell Nettie.....	“
Cauthorn Celia A.....	Buena Vista.
Chenoweth Lizzie A.....	Corvallis.
Custer Addie.....	“
Dohse Mary E.....	“
Dunn Alwilda E.....	“
Eglin Mary A.....	“
Friedley Minnie.....	“
Fuller Lucy.....	“
Glass Estella.....	“
Graves Maria.....	“
Graves Mary.....	“
Hamilton Fannie.....	“

\*DECEASED.

NAMES.	RESIDENCE.
Hamilton Lizzie.....	Corvallis.
Hays Cora A.....	"
Hays Sarah A.....	"
Hedgpeth Mary.....	"
Houck Agnes.....	"
Jacobs Eda.....	"
Johnson Ethel.....	"
Kelsay Annie.....	"
Kline Pauline.....	"
Kline Sarah M.....	"
Knight Alma.....	"
Lewis Florence.....	"
McFarland Winnie.....	"
Moore Mary.....	"
Moore Lily.....	"
Mulky Alice.....	"
Mulky Laurie.....	"
Neugass Bertha.....	"
Osburn Mary L.....	"
Price Sarah.....	"
Purdy Jennie T.....	"
Russ Luella.....	"
Simon Clara.....	"
Strahan Fannie H.....	"
Taylor Lou M.....	"
Taylor Jessie L.....	"
Thayer Emma.....	"
Wrenn Alice.....	"
Wilson Belle.....	"
White Minnie.....	"
White Lelia.....	"
Avery Napoleon B.....	"
Bayley Marcus.....	"
Boon Jacob.....	"

NAMES.	RESIDENCE.
Brock Vineyard.....	Corvallis.
Burkhart John D.....	Albany.
Butterfield John.....	Corvallis.
Caldwell Lewis E.....	"
Carter Orville E.....	"
Cauthorn Frank.....	"
Chenoweth Ulysses.....	"
Chrissinger Robert M.....	"
Davis Zedekiah H.....	"
Dohse Charles.....	"
Emery James.....	"
Emery Willie G.....	"
Eglin George F.....	"
Eglin James L.....	"
Friedly Arthur.....	"
Gerhard George M.....	"
Glass Elvin.....	"
Graves Charles.....	"
Hamilton Milton.....	"
Holgate Arthur E.....	"
Holgate Willie W.....	"
Houck Jesse J.....	"
Hunter Ira A. M.....	"
Jacobs Isaac.....	"
Jacobs Isadore.....	"
Johnson Robert.....	"
Keese Andrew T.....	"
Kline Moses.....	"
McFarland Walter.....	"
McNulty Claud.....	"
Neugass Moses.....	"
Osburn David A.....	"
Osburn James L.....	"

NAMES.	RESIDENCE.
Porter Johnson M.....	Corvallis.
Robinet Moses.....	"
Scears Charles W.....	"
Smith Gustavus H.....	"
St. Clair Wayman.....	"
Stewart Nathaniel.....	"
Walker John.....	"
White Ernest.....	"
Wilson Lafayette Y.....	"
Aggregate.....	134



# Course of Study.

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The course of study is distributed into schools as follows:

- I.—School of Physics.
- II.—School of Mathematics.
- III.—School of Moral Science.
- IV.—School of Language.
- V.—School of History and Literature.
- VI.—School of Engineering.
- VII.—Special studies of Agriculture.

## I.—SCHOOL OF PHYSICS.

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This School comprises three departments, viz:

- A.—Chemistry.
- B.—Natural Philosophy.
- C.—Biology.

### A.—CHEMISTRY.

A.—Chemistry. Three Classes.

I. JUNIOR.—Science Primers; Huxley & Roscoe. Experiments.

II. INTERMEDIATE.—*General Chemistry*; Organic and Inorganic. Chiefly *Experiments*.

III. SENIOR.—Analysis; Qualitative and Quantitative; the student must here do his own work.

*Remark I.*—No one can understand Biology, Mineralogy, Agriculture, Geology, in their principles without a knowledge of Chemistry; hence students must study Chemistry before entering upon these subjects, or they must be studied concurrently with Chemistry.

### B.—NATURAL PHILOSOPHY.

The doctrines of Light, Heat and Electricity are taught in this department; also Mechanics in its lower forms; Astronomy, and for the present, Mineralogy, Geology and Meteorology. These subjects will be discussed in the Light of the Correlation and Conservation of forces. We are prepared to demonstrate experimentally the more important principles taught here.

TEXT BOOKS.—Silliman's (Physics), Dana, Loomis, Maury, Olmsted, Peck, Tyndall.

### C—BIOLOGY.

Here come to be considered the general principles of life on its physical side. Vegetable and Animal Physiology, Botany, Zoology.

TEXT BOOKS.—Huxley, Carpenter, Gray or Wood, Agassiz.

The more important principles will be demonstrated by microscope. We hope to have a Spectroscope this year, when spectroscopic analysis will be taught.

## II.—SCHOOL OF MATHEMATICS.

This course is divided into three classes—Junior, Intermediate and Senior.

JUNIOR.—Algebra and Geometry completed. Trigonometry, Surveying and Navigation.

INTERMEDIATE.—Analytical Geometry. Descriptive Geometry.

SENIOR.—The Differential Calculus. The Integral Calculus.

### PREPARATIONS NECESSARY FOR ENTERING THE JUNIOR CLASS.

Students must pass an examination on higher Arithmetic and higher Algebra to Quadratics, and on four books in Geometry before entering the Junior class.

TEXT BOOKS.—Davis, Loomis, Courtenay, and Todhunter for reference.

## III.—SCHOOL OF MORAL SCIENCE.

Here are taught.

1.—Mental Philosophy.

2.—Logic.

3.—Political Economy.

TEXT BOOKS.—Hamilton, Mill, Wayland and Butler.

### Post-Graduate Class in Moral Philosophy.

*Ueberweg's History of Philosophy* will be constantly studied during the course.

Hamilton's *Doctrine of Common Sense, Perception and the Conditioned*, and *Logic* more thoroughly studied.

Cousin's *History of Modern Philosophy*. The True, Beautiful and Good.

Jouffroy's *Ethical Theories*.

Some portions of Aristotle's Rhetoric, Politics and Trendelenburg's *Elementa Logices Aristotelæ*.

Butler's Analogy.

Cousin will be studied with reference to Locke.

The Doctrines of Modern Sociology; a rigid Logical Analysis all along required.

#### IV.—SCHOOL OF LANGUAGE.

This school is divided into two Departments:

A.—Ancient Language.

B.—Modern.

##### A.—ANCIENT LANGUAGE.

Here are taught Greek and Latin.

FIRST—Greek. There are two classes, Junior and Senior.

*Junior* class will read Xenophon and Homer.

*Senior* will read Demosthenes, Plato, Thucydides and some Tragedy.

LATIN.—Two classes, Junior and Senior.

*Junior*, books read—Cæsar, Virgil and Livy.

*Senior*—books read—Horace, Cicero, Tacitus and Juvenal.

Exercises written in each Language, required throughout the course.

*Greek Grammars*.—Kuhner's Elementary, Hadley, Goodwin's Moods and Tenses, Liddell and Scott's Lexicon.

*Latin*.—Gildersleeve's Grammar, Harrison's, Gildersleeve's Exercise book, Andrew's Lexicon.

##### PREPARATION NECESSARY TO ENTER THIS SCHOOL.

##### 1.—GREEK.

Xenophon's *Anabasis* entire, and five books of Homer. The pupil must have written all the exercises in Kuhner's Elementary Greek Grammar, as far as Syntax; must be able to give with readiness all the synopses of the verbs; give mode-vowels and personal endings.

##### 2 —LATIN.

Cæsar entire, Sallust and Ovid, Andrew's edition, of the latter will be sufficient.

The students must be able to inflect nouns and verbs with facility; must have



written through the 1st and 2d courses of Gildersleeve's Latin exercise book, or be able to write it with correctness and some degree of ease.

### B—MODERN LANGUAGE.

This course comprehends French, German and Anglo-Saxon.

1. GERMAN.—Comfort's Grammar for beginners and Whitney's for advanced students, besides the readers, such authors and parts of authors will be read as the teachers may deem fit.

2. FRENCH.—De Vere's Grammars and Readers; besides Readers, such authors and parts of authors will be read as the teachers may deem fit.

3. ANGLO SAXON.—Grammar, March; Reader, Corson.

### V.—SCHOOL OF HISTORY AND LITERATURE.

1. HISTORY.—History of Greece, of Rome, of England, of United States.

2. LITERATURE.—History of the English Language and Literature; English Grammar; a portion of Aesthetics; Anglo-Saxon form of English.

TEXT BOOKS.—Smith's Smaller Histories of Greece and Rome; Smith's Student's Gibbon's Decline and Fall, and the Student's Hume's History of England by the same author; Taylor's Manual of Modern History.

TEXT BOOKS IN LITERATURE.—Kame's Criticism; Brown's English Grammar, Hart's English Literature and American Literature; Shakespeare; Corson's Hand-book of Early English.

### VI.—SCHOOL OF ENGINEERING.

This department cannot be fully organized yet for want of funds. Besides what of this course is taught in the schools of Mathematics and Physics, we teach drawing and descriptive Geometry, Shades and Shadows and general principles of civil engineering.

TEXT BOOKS.—Warren, Church, Mahan.

### VII.—SPECIAL STUDIES OF AGRICULTURE.

The general principles of agriculture are taught in the Chemical department. The following *special* studies are taught: Composition and analysis of soils; preparation of soils, manures, modes of drainage, &c. Method of preparing farm buildings, stock raising, fruit culture, and as soon as possible the special Geology of Oregon.

TEXT BOOKS.—Caldwell's Agricultural Analysis. How plants grow; Liebig, Allen's Farm Book, Goodales on Stock-Breeding, and Downing on Fruit-Culture, and at an advanced point in the course, Kemp's Landscape Gardening.

All agricultural students must recite daily in this department.

**MILITARY DRILL AND MANUAL LABOR.**

All State students are required to drill once a day, and to perform a small amount of manual labor on the farm.

NOTE.—PRACTICAL MECHANICS.—As soon as funds and circumstances justify, Practical Mechanics will be taught, when the student will have an opportunity of acquiring a practical dexterity in various trades.



# Degrees and Examinations.

## DEGREES.

There are four degrees conferred in this institution.

1. The degree A. M., conferred on all who complete the course in the study of Physics, Mathematics, Moral Philosophy, History and Literature and Language.

2. The degree A. B., on such as complete the course in the schools of Physics, Moral Philosophy, Mathematics and Ancient Language.

3. The degree B. S., on such as complete the course in the schools of Physics, Mathematics, Moral Philosophy, Engineering, and Special Department of Agriculture.

4. The degree of Graduate of a School on such as complete the course in any school.

*Remark.* The title Proficient will be granted to any candidate for degrees, who shall have passed two successful examinations, one of which must be final.

## EXAMINATIONS.

Stated examinations all done in writing; they are of two kinds—Intermediate and Final. The final examination occurs at the end of the year.

*Failures to pass at examination.*—No student failing to pass at examination on any study, will be admitted to a second examination on that study during the same year.

Candidates for degrees, will, at their final examination, be examined on the *entire course*. Students in the Ancient Languages will be examined for degrees in the Classical Authors at the will of the Professor, and this examination will not be confined to the authors read by the student during the session in the lecture room.

## Regulations.

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We require but two things of students, viz: *Gentlemanly conduct and good lessons*—these are unconditionally required.

By gentlemanly conduct, we mean that all students are required to behave toward one another and toward teachers as the laws of refined society direct.

GOOD LESSONS.—We mean by “good lessons” that students will be required to attain in daily recitation at least 50; our standard of perfect lessons being 100. Everything like inattention, talking, communicating in any way whatever during recitations, and being tardy at recitation, will detract from merit of recitation. Students persisting in a violation of these rules will be promptly dismissed.

We sincerely hope that no student who does not intend to obey *cheerfully* these simple laws, will apply for admission.

### REMARK 1.

No student from another school will be admitted to this school, unless he bring a certificate of good conduct from the President of that school.

### REMARK 2.

No student will be allowed to take up less than three studies, or more than five, except in special cases.

### REMARK 3.

No student will be allowed to change a study in any case, or discontinue a study, unless, in case of ill health, he bring a certificate from a physician of good standing that such change or discontinuance is absolutely necessary, or the Faculty see fit to allow such change or discontinuance.

### REMARK 4.

All cases of disorder at recitation, absence from recitation, &c., will be reported and students permitted to render their own excuses upon honor, and in writing; their excuses to be submitted to the entire Faculty for examination, and demerits awarded accordingly. But in all cases students must state *special* not *general* reasons. It will not do to say, “I had important business,” but the kind of business must be stated, and the faculty must decide its *importance*.

## REMARK 5.

The laws of the State forbid drunkenness, gambling, riotous conduct of any kind, attending saloons; penalty for persistence—expulsion.

## REMARK 6.

All communications between ladies and gentlemen on the College premises are expressly forbidden.

## SCALE OF DEMERITS.

Absence from recitation.....	5 to 10
Late at recitation.....	5 to 10
Failure at recitation.....	5 to 10
Leaving recitation without excuse.....	5 to 30
Ladies and gentlemen conversing on College premises.....	5 to 25
Disorder at recitation.....	5 to 50
General disorder.....	5 to 100

100 demerits dismiss.



# Miscellaneous.

## LOCATION.

The College is located at Corvallis, Benton county, Oregon. This is a pleasant and healthful place.

## SESSIONS.

The scholastic year consists of ten months, of twenty days each. This is divided into three equal terms as heretofore.

## EXPENSES.

### TUITION PER TERM.

Tuition charged from date of entrance to end of Term. No deduction except for sickness.

Primary Department.....	\$ 6 00
Preparatory (English) Department.....	10 00
Preparatory (Classical).....	12 00
Collegiate (Irregular).....	13 00
Collegiate (Regular).....	15 00

### EXTRAS.

Modern Languages, each.....	5 00
Graduating fee, Classical Course.....	10 00
Graduating fee, Scientific.....	8 00

All this must be paid in U. S. Gold Coin; Tuition at the beginning of each Term.

## BOARD.

Board costs from three to four dollars a week.

## TO THE PUBLIC.

*Let no one trust a minor* without the permission of his or her parent or guardian.

## REPORTS.

Regular monthly reports are sent to parents; these reports show the standing, deportment, &c.

There are two Literary Societies (the Adelpian, and Gamma Chi.) These societies meet weekly for literary exercises.

#### CALENDAR FOR 1874-5.

First term begins September 1st, 1874.

Second term begins December 3d, 1874.

Third term begins March 8th, 1875.

Commencement day, June 7th, 1875.

1. It is presumed that all students attending this school, seek honor in scholarship; this they *cannot get* without passing a thorough examination, for we will pass no person to degrees unless that person pass the examination required.

2. All undergraduates attaining at examination 75 per cent., will receive a certificate of distinction.

3. All graduates of this school can attend lectures in any school in which they may have been passed to graduation, *free of charge*.

4. There will be no holidays except one or two days at Christmas, and this at the option of the Faculty.

All absentees from recitation will receive the mark of failure at recitation, whether absent with excuse or without it, unless in case of protracted, serious sickness.



## White Soil.

I have, during this session, made an analysis of the so-called "White Soil." The sample used was selected by Mr. J. S. Palmer, a first class farmer of Benton county, and was taken from the Agricultural Farm. The following inorganic substances were found in this sample, viz: Silica, Sulphuric Acid, Phosphoric Acid, Potash, Soda, Lime, Oxide of Iron, Alumina, Magnesia, and a trace of Manganic Oxide. All these were found in sufficient quantity, except Sulphuric Acid. The amount of Lime is not great. And the indications are that Sulphate of Lime (Plaster of Paris) is the proper chemical remedy. I would suggest its use particularly in connection with grass crops. The chief cause why the soil fails to yield grain perfectly, is, that it is too wet. It requires many analyses to justify positive assertions, but so far as I have examined the white soil chemically and physically, the following mode of treatment is suggested by every fact: In the first place every mode of treatment will be useless without *thorough draining*. *Water furrows will not drain this land*; it must be drained by underground drains, sunk at least 30 inches deep and about 30 feet apart; and further, they should not be more than 100 feet long; this requires that the main open ditches be only about 200 feet apart and unless this method or some such method be pursued, the land cannot be properly drained. This is the method recommended by the best *Scientific Agriculturists*. After draining pulverize as deep as possible and treat with Plaster of Paris, (say 200 lbs. per acre,) cultivate green crops for a few seasons, (always plowing them under when in full growth,) and the land will soon be rendered fit for grain. Plaster cannot be procured conveniently in Oregon, therefore, as far as possible, supply its place with ashes, and marl; quick lime mixed with organic matter may be used, but should not be used alone, or at least it must be used in very small quantity. Sand, straw, good barn manure, all are good for this land. But let this be indelibly fixed in every farmer's mind, that the best remedy is *thorough draining*. This is the best way to correct the sourness of the soil.

Mr. Palmer sent me last fall a sample of Marl from the Yaquina Bay district; upon analysis, I find as much as from ten to twelve per cent. of Lime, this Marl is, therefore, a good article and can be applied with advantage.

B. L. ARNOLD.



