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AGRICULTURAL COLLEGE
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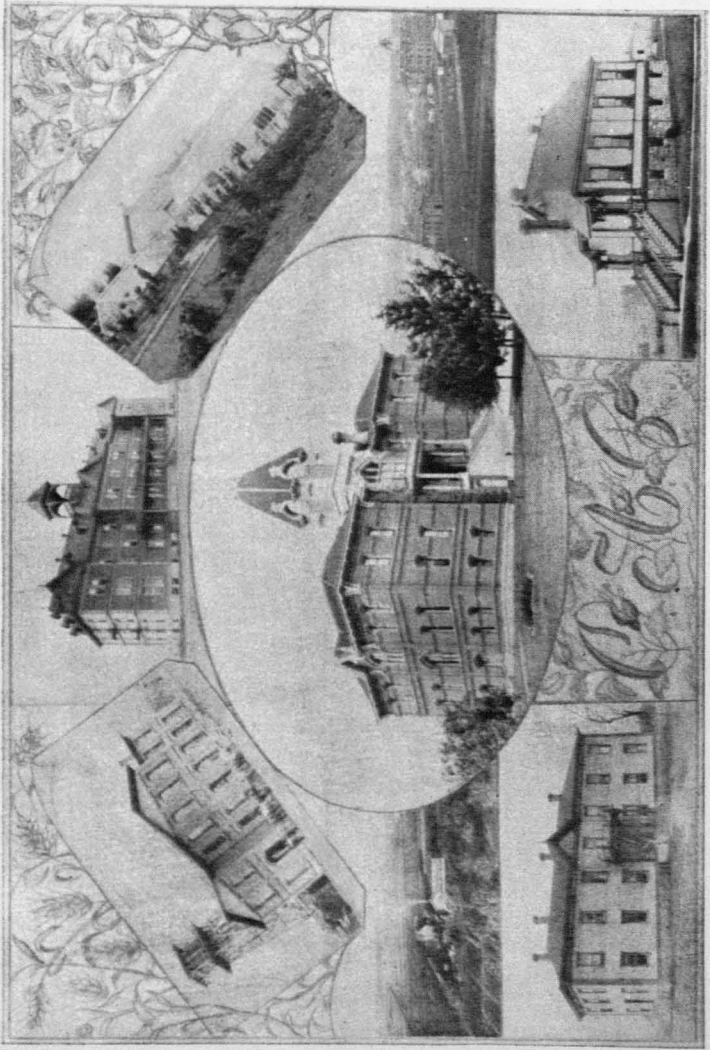
State + Agricultural + College

OF OREGON

FOR

1893 - - 1894.

AGRICULTURAL COLLEGE
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ANNUAL CATALOGUE

OF THE

State Agricultural College

OF THE

STATE OF OREGON

FOR

1892--1893

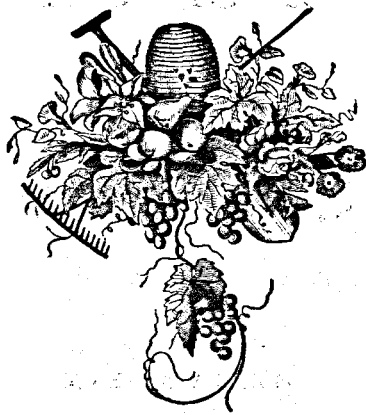
AND

ANNOUNCEMENTS FOR 1893--1894.

CORVALLIS, OREGON.



AGRICULTURAL COLLEGE PRINTING OFFICE,
H. R. CLARK, Manager,
CORVALLIS, OREGON,
1893.



ANNOUNCEMENTS.

FALL TERM

Begins Thursday, September 21st; closes December 22nd.

*Examination for admission and enrollment, September 21st and 22nd,
9 a. m.*

November 25th (Thanksgiving) a holiday.

WINTER TERM

Begins January 2d, 1894; closes March 30th.

February 22nd, a holiday; exercises in the evening in College Chapel.

SPRING TERM

Begins April 2d; closes June 27th.

May 30th, Decoration Day, a holiday.

Sunday, June 24th to Wednesday, June 27th, Commencement Exercises.

Wednesday, June 27th, Commencement Day.

WINTER VACATION

From December 22nd to January 2nd, 1894.

EXAMINATIONS

Examinations will be held at the close of each month.

*The students' standing will be reported to the parents or guardians at
the close of each term.*

BOARD OF REGENTS.

- Gov. SYLVESTER PENNOYER, PRESIDENT,
Portland, Oregon.
- HON. WALLIS NASH, SECRETARY,
Corvallis, Oregon.
- HON. A. R. SHIPLEY, TREASURER,
Corvallis, Oregon.
- HON. GEORGE W. MCBRIDE, SECRETARY OF STATE,
Salem, Oregon.
- HON. E. B. MCELROY, STATE SUPT. PUB. INSTRUCTION,
Salem, Oregon.
- HON. R. P. BOISE, MASTER OF STATE GRANGE,
Salem, Oregon.
- HON. J. T. APPERSON,
Oregon City, Oregon.
- HON. T. W. DAVENPORT,
Silverton, Oregon.
- HON. JOHN EMMETT,
Umpqua Ferry, Oregon.
- HON. W. P. KEADY,
Portland, Oregon.
- HON. J. K. WEATHERFORD,
Albany, Oregon.
- HON. W. A. SAMPLE,
Pendleton, Oregon.
- HON. BARNARD DALY,
Lakeview, Oregon.

EXECUTIVE COMMITTEE.

- HON. J. T. APPERSON, CHAIRMAN,
Oregon City, Oregon.
- HON. WALLIS NASH, SECRETARY,
Corvallis, Oregon.
- HON. A. R. SHIPLEY, TREASURER,
Corvallis, Oregon.
- HON. R. P. BOISE,
Salem, Oregon.
- HON. J. K. WEATHERFORD,
Albany, Oregon.

FACULTY.

- JOHN M. BLOSS, A. M.,
President and Professor of Mental and Moral Science.
- JOHN D. LETCHER, C. E.,
Professor of Mathematics and Engineering.
- F. BERCHTOLD, A. M.,
Professor of Modern Languages, History, Drawing, and Music.
- MARGARET C. SNELL, M. D.,
Professor of Household Economy and Hygiene.
- GRANT A. COVELL, M. E.,
Professor of Mechanics and Mechanical Engineering.
- F. L. WASHBURN, A. B.,
Professor of Zoology and Entomology.
- H. T. FRENCH, M. S.,
Professor of Agriculture.
- MOSES CRAIG, M. S.,
Professor of Botany.
- G. W. SHAW, A. M.,
Professor of Chemistry and Physics.
- DUMONT LOTZ, M. Sc., A. C.,
Station Chemist.
- GEORGE COOTE,
Instructor in Horticulture.
- J. B. HORNER, A. M.,
Professor of English Language and Literature.
- W. W. BRISTOW, A. B.,
Principal Preparatory Department and Prof. of Book-keeping.
- MRS. IDA CALLAHAN, B. S.,
Assistant in Preparatory Department.
- C. D. THOMPSON, A. B.,
Foreman of Agricultural Department.
- E. M. BELKNAP,
Engineer and Practical Instructor in Wood and Metal Working,
Mechanical Department.
- HARLEY R. CLARK,
Instructor in Printing.
- EMILE PERNOT,
Instructor in Photography and Photo-gravure.
- Mrs. J. A. L. CASTO, Matron of Girls' Hall.

THE OREGON**Agricultural Experiment Station.**

DEPARTMENT OF STATE AGRICULTURAL COLLEGE.

STAFF.

JOHN M. BLOSS, A. M., Director.
H. T. FRENCH, M. S., Agriculturist.
F. L. WASHBURN, A. B., Entomologist.
DUMONT LOTZ, M. Sc., A. C., Chemist.
MOSES CRAIG, M. S., Botanist.
GEORGE COOTE, Horticulturist.

The work of the Station is an important feature of the institution. Bulletins are issued giving such information as may be thought of interest and importance to the public, and copies forwarded to every applicant.

FARMERS' INSTITUTES.

Farmers' Institutes will be held in different sections of the state during the year, under the general management of the college authorities. It is the plan of the committee having the matter in charge to reach every section of the state during a series of years.

At these institutes, papers are read and topics discussed by persons having extensive experimental knowledge of the topics as well as by those who have made a scientific study of the subjects.

Both the papers and addresses should be fully discussed by those present. Thus the College and the Experiment Station are brought into touch with the business industries of the state.

Institutes have been held in the following places during the past year: Salem, Sept. 13-16; Milton, Umatilla Co., Sept. 28-30; Newberg, Washington Co. and Brownsville, Linn, Co. Nov. 24 and 25; Dufur, Wasco Co., Dec. 29-30; Barlow, Clackamas Co., Feb. 24-25; Siuslaw, Lane Co., May 19-20.

The following is the institute committee: Hon. A. R. Shipley and Hon. Wallis Nash, of the Board of Regents; Pres. John M. Bloss and Professors French and Washburn of the Faculty.

STUDENTS.

POST GRADUATES.

NAMES.	P. O. ADDRESS.	COUNTY.
Additon, A. S.....	Corvallis.....	Benton.
Alexander, Joe.....	"	"
Fulton, John.....	"	"
Hogue, Nellie.....	"	"
Stewart, Lois.....	"	Union.
Total.....		5.

UNDER GRADUATES.

Fourth Year.

NAMES.	COURSE.	P. O. ADDRESS.	COUNTY.
Andrews, H. A.....	Mechanical	Oregon City.....	Clackamas.
Davidson, Nellie.....	Literary	Corvallis	Benton.
Denman, George.....	Agricultural.....	"	"
Goodall, Scott.....	"	Union	Union.
Leach, Altha.....	Literary	Lexington	Morrow.
Lilly, Horace.....	Mechanical	Corvallis	Benton.
Palmer, G. W.....	"	Baker City	Baker.
Total			7.

THIRD YEAR.

Allen, John.....	Mech.	Corvallis.....	Benton.
Applewhite, Lee.....	Agri.	"	"
Bronson, Hattie.....	H. E.	Lewisville	Polk.
Burnett, Brady.....	Agri.	Corvallis	Benton.
Desborough, H.....	Mech.	"	"
Emmett, E. G.....	"	Eola	Polk.
Finley, Ross.....	Agricultural.	Monroe	Benton.
Gibson, J. H.....	"	Corvallis.....	"
Greffoz, Hortense.....	H. E.	"	"
Holman, W. H.....	Mech.	Wells	"
Lawrence, Erma.....	H. E.	Oregon City.....	Clackamas.
Nash, Percival.....	Agricultural.	Corvallis	Benton.
Rowen, N. J.....	"	Pleasant Hill.....	Lane.
Samuels, Anna.....	H. E.	Corvallis	Benton.
Spangler, Ora.....	H. E.	"	"
Swann, L. L	Agri.	Lewisville	Polk.
Voorhees, Mollie	H. E.	Woodburn	Marion.
Williams, W. C.....	Mech,	Amity.....	Yamhill.
Total			18.

SECOND YEAR.

NAMES.	COURSE.	P. O. ADDRESS.	COUNTY.
Adamson, D. P.....	Agri.	Halsey	Linn.
Andrews, L. B.....	"	Oregon City.....	Clackamas.
Bump, Mark.....	"	Kings Valley.....	Benton.
Buxton, A. T.....	Mech.	Forest Grove.....	Washington.
Caples, Harry.....	"	Caples	Cowlitz Wash.
Chandler, Marvin.....	Agri.	Wingville	Baker.
Currier, Eva.....	H. E.	Corvallis	Benton.
Currier, Sarah.....	"	"	"
Edwards, Frank.....	Mech.	Mayville	Gilliam.
Friendly, Herbert.	"	Corvallis.....	Benton.
Gellatly, Jennie.....	H. E.	Philomath.....	"
Gellatly, Delia	"	"	"
George, Luna.....	"	Corvallis.....	"
Gould, Ina V.....	"	"	"
Lacy, W. B.....	Mech.	Heppner	Morrow.
Leonard, Harry.....	"	Corvallis	Benton.
Lewis, A. C.....	"	Klamath Falls ..	Klamath.
McCune, Amelia.....	H. E.	Shedds	Linn.
McCune, Kate.....	"	"	"
McFadden, J. N.....	Agri.	Corvallis	Benton.
Newton, Jane.....	H. E.	"	"
Oren, L. W.....	Mech.	"	"
Parsons, Franc.....	H. E.	Contention	Gilliam.
Raster, Theo.....	Agri.	Kings Valley.....	Benton.
Rhinehart, Arthur.....	"	Union	Union.
Robbins, Orla.....	H. E.	Mollalla	Clackamas.
Smith, W. W	Mech.	LaGrande.....	Union.
Smith, William B.....	Agri.	N. Yamhill	Yamhill.
Wicks, Lettie.....	H. E.	Corvallis	Benton.
Wyatt, M. A.....	Agri.	"	"
Zimmerman, A. D.....	Mech.	Aurora	Marion.
Total			31.

FIRST YEAR.

Abernethy, Carrie.....	H. E.	Dora	Coos.
Abernethy, W.....	Mech.	"	"
Adamson, J. E.....	Agri.	Halsey.....	Linn.
Alger, P. E.....	Mech.	Union	Union.
Barnhart, Wilbur.....	Agri.	La Grande.....	"
Beall, Thomas.....	"	Central Point....	Jackson.
Belts, J. F.....	Mech.	Harrisburg.....	Linn.
Branden, Lulu.....	H. E.	Plainview.....	"
Bronson, Charles.....	Agri.	Lewisville... ..	Polk.
Brown, W. A (2).....	Mech.	Corvallis	Benton.
Bryson, Roscoe	"	"	"
Buchanan, Alice.....	H. E.	"	"
Buchanan, Arthur.....	Mech.	"	"
Buchanan, Kate.....	H. E.	"	"
Buoy, Mary.....	"	Philomath.....	"
Callison, O. F	Mech.	Pleasant Hill.....	Lane.
Campbell, Etta.....	H. E.	Corvallis	Benton.
Caples, Fred.....	Agri.	Columbia City ...	Columbia.
Carlile, Gertie	H. E.	Corvallis	Benton.
Casto, S. L.....	Agri.	Carus	Clackamas.
Cauthorn, Laura.....	H. E.	Wells	Benton.

FIRST YEAR.

NAMES.	COURSE.	P. O. ADDRESS.	COUNTY.
Cauthorn, Maud.....	H. E.	Corvallis	Benton.
Chandler, Charles, (2).....	Agri.	Wingville	Baker.
Clark, George M (2).....	Mech.	Corvallis	Benton.
Clark, Merton.....	"	"	"
Cooley, Inez.....	H. E.	Woodburn	Marion.
Davis, O. L.....	Mech.	Corvallis	Benton.
Derrick, Herbert.....	"	Little Elk.....	Lincoln.
DeLong, Ernest.....	"	Alice	Union.
Ditmar, Mina.....	H. E.	Philomath	Benton.
Doughty, E. R.....	Agri.	Bay City.....	Tillamook.
Elliot, Ernest.....	Mech.	Corvallis	Benton.
Emmett, Kittie.....	H. E.	Unpqua Ferry.....	Douglas.
Erwin, Ellsworth.....	Mech.	Corvallis.....	Benton.
Findley, Edna.....	H. E.	Monroe.....	"
Franklin, Mrs. M.....	"	Philomath.....	"
Gorrell, Frank.....	Mech.	Oakland.....	Douglas.
Hamilton, Lillian.....	H. E.	Corvallis.....	Benton.
Hamilton, Olive.....	"	"	"
Handy, Effie.....	"	"	"
Haunah, Anna.....	"	Baker City.....	Baker.
Hannah, James.....	Mech.	Scio.....	Linn.
Harrison, Wallace.....	"	Amity	Yamhill.
Headrich, May.....	H. E.	Corvallis	Benton.
Heanel, Delphena.....	"	Junction.....	Lane.
Henderson, Mary.....	"	Corvallis.....	Benton.
Hodes, Minnie.....	"	"	"
Hogue, Harry.....	Mech.	"	"
Hughson, Percy.....	"	Summer Lake.....	Lake.
Hunter, Charles.....	"	Island City.....	Union.
Hunter, Jesse.....	Mech. & Print.	Woodburn.....	Marion.
Hume, P. E.....	Agri.	Roseburg.....	Douglas.
Johnson, Fred.....	"	Lewisville.....	Polk.
Johnson, Marion.....	Mech.	Corvallis	Benton.
Johnson, Will.....	Agri.	"	"
Keady, W. F.....	Printing	Portland	Multnomah.
Kendell, Frank.....	Mech.	Alice	Union.
Kessler, Harry.....	"	Klamath Falls.....	Klamath.
Kidder, Andrew B.....	Agri.	North Yamhill.....	Yamhill.
King, Anna.....	H. E.	Wren	Benton.
Kittredge, Daisy.....	"	Monroe.....	"
Langley, Bessie.....	"	Corvallis	"
Langley, Walter.....	Mech.	"	"
Lee, W. T.....	Agri.	Klamath Falls.....	Klamath.
Leland, Lester M.....	"	Oregon City.....	Clackamas.
Lenger, Christine.....	H. E.	Corvallis.....	Benton.
Leonard, Scott.....	Agri.	"	"
Lilly, Mary.....	H. E.	"	"
Long, Elsie.....	"	"	"
Long, Oscar B.....	Mech.	"	"
Looney, W. W.....	"	Jefferson	Marion.
Luenburg, Louise.....	H. E.	Corvallis	Benton.
Mackay, Kate.....	"	"	"
Mackay, Maggie.....	"	"	"
Mathews, Crosby.....	Mech.	Newport.....	Lincoln.
McGillis, Jennie.....	H. E.	Union	Union.

FIRST YEAR.			
NAMES.	COURSE.	P. O. ADDRESS	COUNTY.
Mocine, John.....	Mech.	Gardiner	Douglas.
Mocine, Ralph.....	"	"	"
Montanye, G. B.	"	Albany	Linn.
Montgomery, G.....	"	Portland	Multnomah.
Morrison, A. D.....	Agri.	Oakville	Linn.
Nash, Dorothea.....	H. E.	Corvallis	Benton.
Nichols, B. F.....	Agri.	Riddle.....	Douglas.
O'Conner, Chas.....	"	Centerville	Washington.
Owsley, Charles L.....	Mech.	La Grande,	Union.
Pike, I. D.....	"	Moro	Sherman.
Phillips, Clyde.....	"	Corvallis	Benton.
Pomeroy, F. A.....	"	Rainier	Columbia.
Pomeroy, W. J.....	"	"	"
Porter, Charles.....	"	Corvallis	Benton.
Porter, W. D.....	Agri.	Shedds	Linn.
Ray, Don.....	Mech.	Woodburn	Marion.
Riddle, Walter.....	"	Canyonville	Douglas.
Right, Mattie.....	H. E.	Corvallis	Benton.
Rose, Lotta.....	"	"	"
Shipley, R. C.....	Mech.	"	"
Smith, Charles.....	"	La Grande	Union.
Smith, Mary.....	H. E.	Corvallis	Benton.
Smith, Samuel P.....	Agri.	North Yamhill.....	Yamhill.
Spangler, Martin.....	Mech.	Corvallis	Benton.
Starr, Sylva.....	H. E.	Monroe	"
Stemler, Milton O.....	Agri.	Dora	Coos.
Stewart, Clyde.....	"	Imbler	Union.
Storms, R. E.....	Mech.	Corvallis	Benton.
Stout, Anna.....	H. E.	Mehama	Marion.
Stout, Mary.....	"	"	"
Terrell, Ralph.....	Mech.	"	"
Thornton, Lula.....	H. E.	Summit	Benton.
Underwood, A. V.....	Agri.	Boyd	Wasco.
Vaughn, Amy.....	H. E.	Philomath	Benton.
Ward, Anna.....	"	Plainview	Linn.
Warrior, Julia.....	"	Corvallis	Benton.
Watts, E. T.....	Mech.	St. Helens	Columbia.
Wickman, Mary.....	H. E.	Corvallis	Benton.
Wilkins, Clement.....	Mech.	Pasco, Wash.....	Franklin.
Williams, Howard.....	"	Halsey	Linn.
Williams, Julia.....	H. E.	Junction City.....	Lane.
Willis, Effie.....	"	Roseburg	Douglas.
Willis, Lena.....	"	"	"
Wood, Arthur W.....	Mech.	Albany	Linn.
Woodward, Don.....	Agri.	Corvallis	Benton.
Wright, Willis.....	"	Union	Union.
Yates, Mina.....	H. E.	Corvallis	Benton.
Total.....			123

PREPARATORY DEPARTMENT.

NAMES.	P. O. ADDRESS.	County.
Abernethy, Edwin.....	Dora	Coos.
Autenreith, Ed.....	Sherwood	Washington.
Avery, Winnie.....	Corvallis	Benton.
Baisley, Perry A.....	Baker City.....	Baker.
Barker, Bessie.....	Corvallis	Benton.
Barnett, Louise.....	Oswego	Clackamas.

PREPARATORY DEPARTMENT.

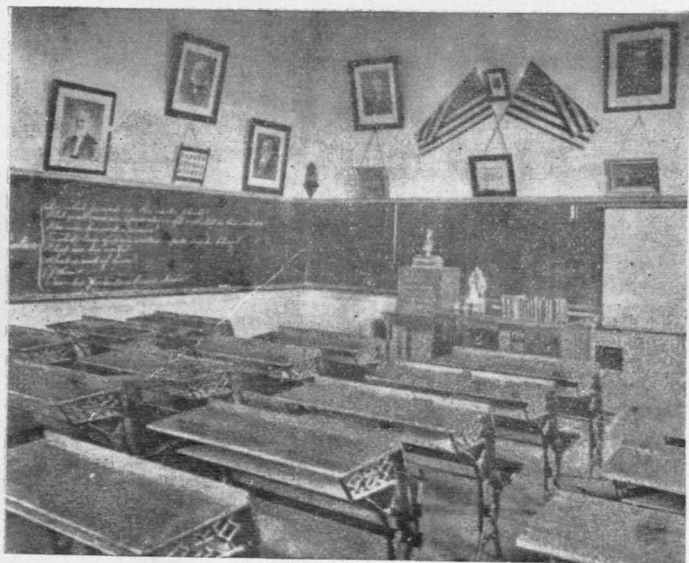
NAMES.	P. O. ADDRESS.	COUNTY.
Botefuhr, Frank.....	Portland.....	Multnomah.
Brown, Milton.....	Corvallis.....	Benton.
Bump, Clarence.....	Kings Valley.....	"
Bundschuh, Fred.....	Portland.....	Multnomah.
Buoy, W. H.....	Philomath.....	Benton.
Burnett, Bruce.....	Corvallis.....	"
Campbell, Emma.....	".....	"
Casto, Augusta.....	Portland.....	Multnomah.
Cauthorn, Henry.....	Wells.....	Benton.
Chattin, Fred.....	Portland.....	Multnomah.
Coney, Silas.....	Oakville.....	Linn.
Cooley, James.....	Brownsville.....	"
Crawford, Frank.....	Pendleton.....	Umatilla.
Cummins, Byron.....	Junction City.....	Lane.
Davenport, Adda.....	Silverton.....	Marion.
Davis, Fred.....	Corvallis.....	Benton.
Depew, Clarence.....	Waldport.....	Lincoln.
Dietz, W. O.....	Portland.....	Multnomah.
Donohue, Warren.....	Sandy.....	Clackamas.
Dunlap, Meda.....	Shedds.....	Linn.
Dunlap, Mary.....	".....	"
Erwin, Richard.....	Corvallis.....	Benton.
Fetter, Hubert.....	Remote.....	Coos.
Fisher, Ernest.....	Corvallis.....	Benton.
Friendly, Sadie.....	".....	"
Graham, Sylvo.....	Marshland.....	Columbia.
Hall, James.....	Myrtle Creek.....	Douglas.
Hardin, Mabel.....	Corvallis.....	Benton.
Hardin, Maude.....	".....	"
Hemphill, Mack.....	".....	"
Herron, John.....	Marshfield.....	Coos.
Holgate, Don.....	Corvallis.....	Benton.
Hufford, E. J.....	".....	"
Hunter, Fred.....	".....	"
Johnson, Arch.....	".....	"
Johnson, L. A.....	Vale.....	Malheur.
Kennison, Joseph.....	Baker City.....	Baker.
Kellaway, Newman.....	Corvallis.....	Benton.
Kiger, Will.....	".....	"
Kruse, Otto A.....	Winchester.....	Douglas.
Liebe, George A.....	The Dalles.....	Wasco.
Liebe, Henry.....	Portland.....	Multnomah.
Lilly, Edith.....	Corvallis.....	Benton.
Looney, V. D.....	Jefferson.....	Marion.
Mackay, Gertie.....	Corvallis.....	Benton.
McBride, Almeda.....	Shedds.....	Linn.
McBride, Idella.....	".....	"
McCune, Robt. G.....	Oakville.....	"
McFarren, Harl.....	Gervais.....	Marion.
Miller, Frank.....	Seattle, Washington.....	King.
Milner, Mamie.....	Corvallis.....	Benton.
Moffett John H.....	Junction City.....	Lane.
Mohr Charles.....	Corvallis.....	Benton.
Moseby, D. A.....	Cottage Grove.....	Lane.
Mulkey, Fred.....	Corvallis.....	Benton.
Mulkey, Homer.....	".....	"

PREPARATORY DEPARTMENT.

NAMES.	P. O. ADDRESS.	COUNTY.
Mulkey, Walter.....	Corvallis	Benton.
Newman, Frank.....	Middleton	Washington.
Norton, Grace.....	Corvallis	Benton.
O'Neil, Mathew	Portland	Multnomah.
Osborne, Charles.....	Corvallis	Benton.
Parsons, Guy.....	Contention.....	Gilliam.
Parsons, Stella.....	"	"
Parsley, Everett V.....	Canyonville	Douglas.
Pattison, Anna.....	Corvallis	Benton.
Peebler, David.....	Pendleton	Umatilla.
Phillips, Miles.....	Corvallis	Benton.
Plunket, Bertha.....	Kings Valley.....	"
Ramp, R. D.....	Roseburg	Douglas.
Ray, William.....	Woodburn.....	Marion.
Redford, Mae.....	Corvallis	Benton.
Riddle, Fred.....	Canyonville.....	Douglas.
Riner, Russell.....	Mount Tabor.....	Multnomah.
Robinson, Ray.....	Wren	Benton.
Roth, J. M.....	Kingsley	Wasco.
Schmidt, W. H.....	Corvallis	"
Selig, Isaac.....	Roseburg	Douglas.
Skinner, W. L.....	Ribber.....	Grant.
Skipton, Otis.....	Corvallis	Benton.
Smith, J. C.....	"	"
Smith, Irving.....	Roseburg	Douglas.
Smith, J. R.....	La Grande.....	Union.
Snell, Mariedna.....	Oakland	California.
Stevens, Scott.....	Corvallis	Benton.
Taylor, Cecile.....	"	"
Thornbury, Jennie.....	Gervais	Marion.
Thornbury, Lillian.....	"	"
Walker, John O.....	Argenti	"
Watson, Anna.....	Corvallis	Benton.
Willis, Dale.....	Roseburg	Douglas.
Wood, Marion.....	Philomath	Benton.
Wyatt, Lizzie.....	Corvallis	"
Total.....		98

RECAPITULATION.

Post Graduates.....	5
Fourth Year.....	7
Third Year.....	18
Second Year.....	31
First Year.....	123
Total.....	184
Preparatory.....	98
Grand Total.....	282
Number of Counties in Oregon.....	32
Number of Counties represented.....	27



DEPARTMENT OF ENGLISH.



DEPARTMENT MATHEMATICS—ENGINEERING.

PURPOSES OF THE INSTITUTION.

The State Agricultural College of Oregon has been organized under the National law for the establishment of such schools. It includes within its curriculum all those branches of study and lines of discipline contemplated in that Act. The following is a brief outline of its purposes and a statement of what has been done to carry out these purposes.

Neither the State nor the Nation can afford to establish and to sustain a system of education which does not have for its basal thought the making of better citizens of those who come directly under its influences. Better citizenship does not depend wholly, nor even primarily, upon intellectual culture, because loyalty to duty, honesty of purpose, unflinching fidelity, personal purity, and willingness to submit to legal restraints, are each elements essential to the perpetuity of the State and the Nation. Hence an effort has been made in this institution to cultivate, by direct instruction in ethics, all the nobler traits of mind and heart, as well as to surround the student as far as possible by all those influences which lead to higher ideals of duty and respect of self.

It has been the purpose of the Faculty and the President of this institution to combine ethical teaching with the instruction in all the branches taught. Hence it is believed that every reasonable effort is being made to prepare the youth of this institution for better citizenship, thus justifying the State and Nation in their beneficence.

The intellectual culture contemplated in this College does not vary in quality from that obtained in other educational institutions in the state, nor should it.

Education involves information, yet it is not information. Education awakens the faculties of the mind to energetic action, but this is not education; it is only a means. Education involves the training of the faculties of the mind, and the rendering of these intellectual faculties submissive to the control of the will. It is the result of all these processes of training that terminates in education. Such training may be secured while pursuing the work laid out in the curriculum of the Agricultural College, as well as in the private college, the normal school, or the university.

By the law of its organization the Agricultural College has a special field of work assigned to it—a field which is covered only in the minor details by the work of any other State or private institution. When organized to fulfill its highest mission, it is a polytechnic school, where the scientific principles underlying the great business industries—agriculture, mechanic arts, and household economy—are taught in conjunction with military discipline and military science. Agriculture is here used in its broadest sense, and embraces all appertaining to the art of good husbandry, including

horticulture, entomology, veterinary science, and all that relates to the proper rearing of animals and plants and their preservation from disease.

Mechanical industries include all the forms of work in wood and metals, as well as the manufacture of machinery for the application or transmission of power. This is a broad field, and a proper investigation of these subjects as sciences and as arts, makes it necessary to study thoroughly several other branches of learning.

ENGLISH.

The study of English must be pursued; first, that the constructive imagination of the student may be cultivated; second, that he may be able to comprehend the literature of the subjects studied; and, third, that he may be enabled to express accurately and intelligently the results of his researches, and thus become a valued member of society.

That the study of English can be best attained by the study of some other language or languages, is a fallacy which haply to-day has but few promoters. That the study of other languages may be made important aids in its study all agree, but after all the real road to a knowledge of English must be through a careful study of English. For these reasons the study of English and training in the art of expressing thought has been made obligatory upon all students.

AGRICULTURAL DEPARTMENT.

ENGINEERING.

An understanding of the science of agriculture includes a knowledge of the proper preparation of soils for the reception of a crop. Hence the student must understand how to secure the best mechanical condition of the soil, not only how to cause the immediate disintegration of the tough and baked clayey soils by direct physical means, but he should understand how tile-drainage renders such soils permanently friable. The latter involves a knowledge of engineering and a study of the philosophy of tile-drainage and irrigation as well.

CHEMISTRY.

To insure the best returns from the farm, the chemical properties of the soil must be known, as well as the chemical constituents of its products. To improve the impoverished soil, a knowledge of the needed fertilizer must be known. If an average crop of apples takes from one acre each year forty-seven pounds of potash and nine pounds of phosphoric acid, then it is evident that these constituents must in some way be replenished or there will come a time when the crop must wholly fail. Hence the chemistry of the soil as well as its products must be known.

To feed stock successfully, the chemistry of food-plants must be ascertained, and properly adapted to their needs. Thus if ten bushels of wheat contain only enough lime to make the shells of one-half dozen eggs, wheat alone would be an unprofitable food for poultry. If one hundred pounds of clover hay has more lime in it than one hundred bushels of wheat, it might be used as a valuable food where lime is needed.

Hence agriculture necessarily involves a thorough knowledge of inor-

ganic and organic chemistry. For this reason, the course in chemistry has been extended, and the pupils are required to do a large amount of work in the chemical laboratory.

COMPARATIVE ANATOMY, AND VETERINARY SCIENCE.

Agriculture also involves a knowledge of breeds of stock, as well as the means of securing the most rapid growth and the prevention of disease. Hence a knowledge of comparative anatomy and veterinary sciences is essential.

But food plants are liable to be injured or destroyed by disease, or they may become the prey of insects. Hence the agriculturist and the horticulturist must have a knowledge of entomology and insecticides. Here again opens up a wide field for the investigation of the true scientist and agriculturist. The microscope and a knowledge of microscopy now becomes essential. This field is one which is ever widening with the growth of science, and is yet comparatively untouched. Observers are needed upon every farm in order to overcome the ravages committed upon the growing crops.

ENTOMOLOGY.

Every student of agriculture and household economy is required to study entomology in the laboratory, in order that a thorough acquaintance with the known pests to agriculture and horticulture may be acquired.

Our laboratories in chemistry, physics, and along biological lines are now by far the best in the Northwest. Laboratory work is essential to the successful study of all subjects, and it is the only method which can inspire the student to become a real investigator. Upon the number of educated investigators is dependent the rapid development and the material prosperity of the state.

HORTICULTURE.

The philosophy of budding, grafting, transplanting, and methods of propagation have a high educative as well as esthetic value. The laboratory process is carried on in the study of these subjects; hence all the pupils who study agriculture and household economy are required to learn the art of budding, grafting, methods of pruning, and caring for flowers, for testing the values of vegetable products and modes of culture.

To meet the requirements for our growing classes a new horticultural building will be erected during the summer months and the green-houses and propagating beds will be greatly extended.

BOTANY.

Horticulture, when studied from a scientific point of view, is not only ennobling to the mind, but is a subject of great profit to the state.

With this subject, as with certain fields in agriculture, the science of botany is intimately related, and becomes in its proper study an important factor. The study of plant-life, methods of growth, the means and the manner of decay, the plan of cell formation, the philosophy of circulation, the methods of repair, the process of fertilization, are all inspiring subjects to the earnest student, and open up to him broad fields rich in thought.

MECHANICAL DEPARTMENT.

PHYSICS, CALCULUS, MECHANICAL DRAWING.

The mechanical department covers a wide range of work and investigation. Here is laid the foundation upon which the work of the artist and the artisan and of those who conduct the great business industries must rest. This training consists of a college course of four years, and includes a thorough and more extended knowledge in physics and in mathematics than the other courses. Here is brought into use the students' knowledge of free-hand drawing. Here the knowledge of physics and calculus is applied in studying the machine and the laws producing motor powers. Here mechanical drawing is taught and applied in preparing the drawings from which work in wood and metal is fashioned. In this course, not only the study of the philosophy underlying mechanics is mastered, but the student is required to spend one hour each day at work in the shops.

SHOP-WORK.

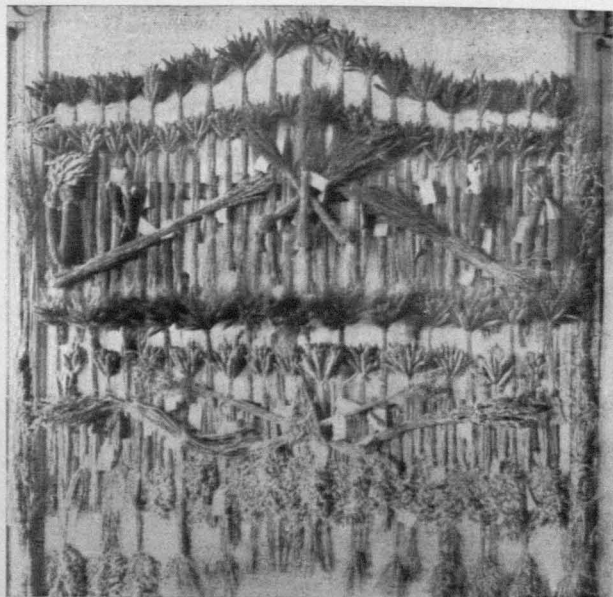
The first year is devoted to work in wood, in which the use of all the tools used in carpentry is brought into requisition, and all the forms of work in framing and carpentry are reproduced from blue prints of drawings which the pupils have been required to construct. The second year is devoted to work in the blacksmith shop. Here every form into which iron is wrought and every process with which the skilled smith must be acquainted is repeated. The testing of all such work as to exactness of size and accuracy of form has as much educational value as the correct solution of a problem in algebra or geometry. The third year is devoted to vise and machine work. The fourth year is devoted to the manufacture of tools and to the higher forms of work in the machine-shop. Some useful machinery, including a fifteen-light dynamo, has been constructed by the class.

When the student has completed this course of instruction, if he devotes his attention to farming, he is prepared, with the outlay of about forty dollars, to repair and to keep in order the machinery of the farm. He learns how to care for and to manage machinery. This to-day is one of the most important problems to every farmer, and is no less useful than a knowledge of the science of agriculture. Especially is this true as to the value of the services of a farm laborer.

In the mechanical department is laid the foundation for the thorough mastery of all great mechanical industries. Here are educated men who may readily become skilled in any of the great mechanical pursuits. Here men are prepared not only to be artisans, but to become managers of great business industries. They do not simply learn a trade as an apprentice, but they learn the philosophy of what they do as it never was taught to the apprentice in the most palmy days of apprenticeship. It is well known that the days of apprenticeship are past. Two things stand in its way: First, labor unions practically control the employment of apprentices by limiting the number; second, by the division of labor in all the great manufacturing industries, there is no necessity nor desire to teach all the parts of any great industry. It is more remunerative to the manager to hold the laborer to that kind of work



CHEMICAL DEPARTMENT.



AGRICULTURAL DEPARTMENT.

which he can perform with the greatest skill. Hence the study of mechanical industries is essential to the State.

HOUSEHOLD ECONOMY.

The department of household economy and hygiene is an important factor in our college work. Here the young women spend an hour each day in studying the art and philosophy of household economics. Sewing, millinery, dressmaking and fitting, and the chemistry of cooking, are among the subjects practically taught; while social etiquette and laws of hygiene and the care of sick are not neglected. The training in this department is exceedingly valuable, because neatness and correctness are required in all its steps. To the State, no more important work can be done than to cultivate those habits which should prevail in every household. Economic habits, cultured taste, and nobility of character are the elements which go far to make and to keep the home happy. The happy home is the prosperous home. Upon such homes rest the perpetuity of the Republic.

PHOTOGRAPHY.

The department of photography and photo-gravure, which is an optional study in the third and fourth year classes, has now had a trial of two years. The results are all that could be expected. During the past year two classes, an advanced and a class of beginners, have been conducted with much success. Photography is important to the student for its educational value in applying his knowledge of chemistry and physics, while for its esthetic culture it is invaluable. Photography is no longer to be regarded as a secret art, nor is a knowledge which is so valuable, and a means which adds so much to human happiness and pleasure, to be overlooked in a course of study. Aside from its educational value, it is almost a necessity in the scientific work of the station.

Photo-gravure is comparatively a new art. Illustration is inseparably connected with instruction. This new art gives new powers of easy and truthful illustration. Through photography the processes of development in all experimental work is fixed, and through photo-gravure it is transferred to the printed page. This institution being an experimental station as well as a college, makes this work of especial value to it.

New and commodious quarters in which will be placed the most improved devices for carrying on the work, will be provided to this department during the summer vacation.

PRINTING.

During the past year the department of printing was established. The results attained have exceeded the expectation.

Many young men are practically unfitted, by nature or by accident, for work either on the farm or in the mechanical pursuits. For this class it was believed that printing would be a valuable line of work. It has not been restricted to that class, however. Young men and young women both have been admitted. This industry is not only valuable as a trade, but it has within it a great educative value. The training in spelling, composition, punctuation, and all the other lines of English is exceedingly val-

uable. The first class in printing was organized this year, and its progress has been very commendable.

The military discipline required in the Agricultural College is of high educational value in this; that it requires prompt and instantaneous obedience, and perfect attention to the work in hand. The physical training is of great value, because it brings into play all the muscles, and the drill requires such positions of body as establish those habits not only graceful in themselves but most healthful to the student.

LABORATORY PROCESSES.

That we learn to do by doing has become an axiom in educational literature. In the Agricultural College, practically, all the work is tested by the laboratory process. In physics, chemistry, mechanics, drawing (freehand and mechanical), botany, zoology, physiology, surveying and engineering, English, household economy, and in all the agricultural and mechanical, and horticultural processes this method is fully carried out.

REQUIRED LABOR.

In this institution, which is in one sense an industrial school, each student is required to devote one hour daily to labor. The kind of labor depends upon the course which the student is pursuing. If he is in the agricultural course, then it includes all the kinds of labor which is done upon the farm or garden, thus putting into practice that which has been taught in the classes. He is required to make surveys for tile drainage as well as to take lessons in laying tile; he sows the seed, notes the growth and development of the plant, and the fruitage; he is taught to graft, to bud, and to cultivate the tree or plant properly, as well as to prune and train it; and during the winter term he learns the art of carpentry and blacksmithing. If he is in the mechanical course, he learns the art and the philosophy of making all the forms of work in wood and metal, as was indicated above. If the student is pursuing the course in household economy, she is taught the art and science of sewing, dress-making and fitting, canning, preserving and cooking. In addition to this she is required to do work in household gardening, including grafting, budding, and flora-culture. If printing be the industry, then type-setting, proof-reading, presswork, etc., constitutes the labor.

Thus it will be seen that the work required of the student is along the line and in pursuance of the course which he has undertaken. The reasons for requiring work are the following:—

First—Because it is the best means of testing the work of the classroom.

Second—Because of the educative value which comes from enforced accuracy and neatness.

Third—Because the knowledge thus gained enables the student to acquire any trade or vocation readily when he leaves school.

Fourth—Because it stimulates within the student self-reliance and a respect for physical labor. The student who looks upon physical labor as be-

neath his dignity, or who would show disrespect for the laborer because he is a laborer, is wholly unfitted for training in this institution.

Fifth—Because physical labor and the practical knowledge of how to perform it, inspires the student with higher ideals of life and best fits him on graduation to compete with skilled labor.

Sixth—Because it enables him to become a more useful member of society.

LOCATION.

The State Agricultural College is located at Corvallis, Oregon, near the head of navigation on the Willamette river. The city, as its name indicates, is in the heart of this beautiful valley; to the east, in the distant horizon, may be seen the Cascades with their snow-capped peaks, while to the west, and near at hand is the Coast range. Mary's Peak, the tallest in the range, for several months of the year is covered with snow, and though twenty miles away adds beauty to the scene.

Corvallis is located on high ground, is healthful, and has not been visited by any dangerous epidemic diseases. It is accessible by rail from the east, west, north, and south.

BUILDINGS.

The College buildings, the most important of which are shown in the frontispiece, are unsurpassed for beauty of situation. The College building proper is commodious, containing in addition to recitation rooms, a large chapel, a museum, and a library.

The mechanical building, erected four years since, which is 78 by 38 ft. and two stories in height and which has a wing 20 by 32 feet of the same height has been found too small for the proper accommodation of the school. During the summer an addition will be made which will increase the Mechanical building to double its present size. The present building is furnished with the most improved machinery and additional machinery of like character will be added. It is the purpose of the college authorities to make this useful department complete in all its appointments.

The laboratory which was built last year has been well equipped for laboratory work.

The present horticultural buildings have been found too small for the growing classes and will be much enlarged and improved during the summer. The forcing-house and the greenhouse enables this department to offer unexcelled advantages for the study of floriculture.

Boarding Halls.

Cauthorn Hall and the Girls' Hall have been erected by the Board of Regents for the purpose of providing students with cheap board and lodging.

In these Halls students will be furnished with board, room, heat, and electric light at \$2.50 a week.

In Cauthorn Hall a large gymnasium has been fitted up for the use of

the boys. Thus while the mental and moral training has been well cared for, physical training has not been neglected.

Post Office, Express, and Telegraph.

The post office address is Corvallis, Benton Co., Oregon. The Western Union Telegraph Company and Wells, Fargo & Company's Express have offices in Corvallis. The latter has kindly consented to carry over its lines, free of charge, objects addressed to the State Agricultural College, for its mineral cabinet and museum.

DEPARTMENTS OF STUDY.

Mental and Moral Philosophy.

PRESIDENT JOHN M. BLOSS, A. M., Professor.

THIRD YEAR.—Political Economy will be studied during the first term. Text-book—Laughlin.

FOURTH YEAR.—*Second Term.*—Psychology will be studied during the term. Text-book—Sully.

FOURTH YEAR.—*Third Term.*—Ethics will be studied during the term. Text-book—Peabody.

English.

JOHN B. HORNER, A. M., Professor.

The most valuable acquisition which the student can make in his collegiate course is the power to express his thoughts in good English. The ability to do this can be acquired only by the study of standard authors and daily practice; hence it is proposed to give as much time to the practice in the art of expression and the study of the use of words, as to the study of the philosophy of language and the laws to which style must conform. Therefore practice in essay writing, and the study of the use of words will be required in connection with all work in English.

FIRST YEAR.—Lockwood's Lessons in English.

THIRD YEAR.—*First Term.*—Rhetoric. Text-book—A. S. Hill.

Second and Third Terms.—Study of English Synonyms. Text-book—Graham.

FOURTH YEAR.—*First Term.*—English Literature. Text-book—Kellogg.

Second Term.—American Literature. Text-book—(To be selected.)

Third Term.—The Study of Words.—Trench.

Mathematics and Engineering.

JOHN D. LETCHER, C. E., Professor.

The course in Mathematics includes only such of its branches as the distinctive aims of this institution require, and conforms itself, in general, to that in use in the most successful agricultural colleges.

In pure Mathematics it includes Algebra, Plane and Solid Geometry, Plane and Spherical Trigonometry, Analytical Geometry, and Calculus, and in Engineering,—Surveying, Leveling, and Road-making.

Special attention is paid to the field-work of Surveying and Leveling.



CLASS-WORK IN HORTICULTURE, GRAFTING



DEPARTMENT OF HOUSEHOLD ECONOMY—COOKING.

The students themselves use the instruments, make the measurements, record the field notes, and then plat and work up the notes thus obtained from actual field practice.

At all times thoroughness and accuracy are insisted upon, and orderly and logical demonstrations in the class-room are required of each student, in order that he may receive the full benefit of the application of this science to the practical affairs of life, and its ability to strengthen and discipline the intellectual powers.

Applicants for admission into the College must have completed Arithmetic and be able to pass a satisfactory examination upon the subject. A thorough familiarity with common and decimal fractions, and percentage in all its applications, will be required. It is desirable, but not necessary, that the student should have studied Algebra as far as equations.

The text-books used are Wentworth's Algebra, Geometry and Trigonometry, Cahart's Surveying, Gillespie's Road-making, and Taylor's Calculus.

The Engineering department has been supplied with the necessary instruments, including a compass, transit, plane-table, level, rod, chains, and tapes.

Latin, History, Drawing, and Music.

F. BERCHTOLD, A. M., Professor.

Latin.

The study of Latin is optional, but may be taken up at the beginning of the Second year and continued throughout the course. It is required in the Fourth year.

History.

During the last term of the Preparatory year and the first and second terms of the Freshman year, United States and General History are studied with daily recitations. Special attention is given to the gradual development of the civilization, laws, constitution, and political system of our Republic. The object is to give the student a thorough knowledge, at least, of the history of his own country, and as much of the history of the Old World as can be mastered in the time allotted.

Text-books.—Barnes' History of the United States, Montgomery's Leading Facts of American History, and Meyers' General History.

The College is well supplied with globes, maps and charts, and all text-books are supplemented by frequent lectures on the periods which are of the most importance, and those that are more obscure and less fully treated in the text-book.

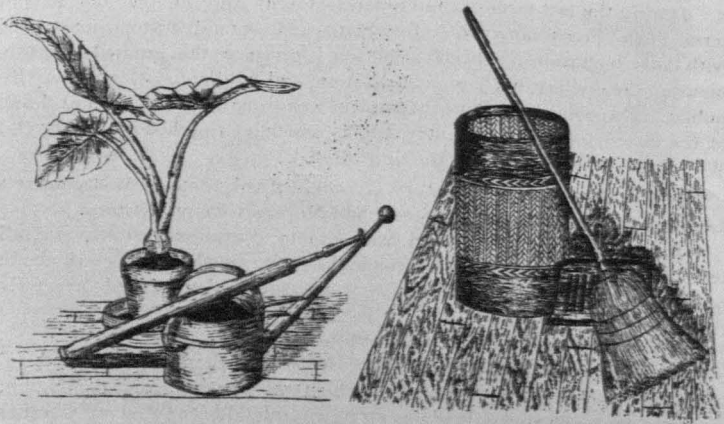
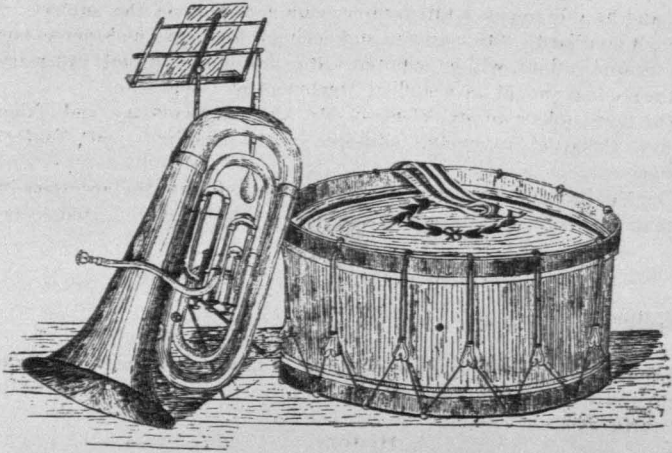
Drawing.

No branch of education is more important than that of free-hand drawing. There is no other, in which the constructive imagination, is so directly cultivated. It is also an important aid in the study of all other branches and is of the greatest importance in after life, in all the business industries or in professional pursuits.

In this school, drawing from the flat copy is but little practiced. In-

stead of this the pupil is required to draw from objects. Later he is required to draw groups of objects as he sees them.

The line cut below shows some of the work of pupils after a study of four months.



Agriculture.

H. T. FRENCH, M. S., Professor.

This course is designed to prepare young men for practical agriculture, and runs through five terms during the first, second, and third years.

FIRST YEAR.—*Third Term.*—History, characteristics, and adaptation of different breeds of domestic animals.

SECOND YEAR.—*First Term.*—The study of the general principles of drainage; laying out and constructing farm drains; the effects of drainage upon the chemical and physical conditions of soil.

Second Term.—The origin and formation of soils; soil tillage; management and application of manures; green manuring; organic and mineral manures; soil exhaustion; rotation of crops, and methods of improving soils.

Third Term.—($\frac{1}{2}$) Principles of stock breeding.

THIRD YEAR.—*First Term.*—VETERINARY SCIENCE.

Lectures will be given on the anatomy of the horse and upon the subject of veterinary pathology. Owing to the limited time in which instruction is given, only the most common diseases are discussed. Special stress is placed upon the prevention of diseases.

Second Term.—($\frac{1}{2}$)—Stock feeding and dairying.

Instruction is given largely by lectures, suitable books being selected for reference. Miles' book on drainage. Curtis' "Horses, Cattle, Sheep, and Swine." Warfield's "Cattle Breeding," Stewart's Stock Feeding.

The College and Station farm consists of 180 acres, 140 of which are devoted to farm crops, pasture, and experimental purposes. The farm is equipped with horse-barn, cattle-barn, silos, piggery, tool-house, etc.

Opportunities are given on the farm for practical work in agriculture in connection with the instruction given in the class-room. A large portion of the work on the farm is done by the students. Students are required to work not more than five hours a week during the Fall and Spring terms on the farm or garden, for which they receive no pay. Such labor will be made instructive as far as possible. During the winter, students taking agricultural and scientific courses are required to work in the mechanical shops. For all additional optional labor the student receives 15 ct. per hour.

While all students in this course are required to perform more or less practical work on the farm, special effort is made to furnish work to those who will appreciate it, as shown in a faithful compliance with the regulations of the institution, and who need pecuniary assistance.

Horticulture.

GEORGE COOTE, Horticulturist.

The purpose of this department is to instruct the student in the most practical manner in the science of horticulture and floriculture. Among the subjects taken up for the study are: the different modes of propagating large and small fruits; the planting and cultivation of young orchards; the renovation of old orchards; root and top grafting; budding and the after-care in the nursery; the raising of trees and plants from seeds and cuttings,

layers and in-arching; the training of fruit trees, such as single and double cordons, pyramidal and bush forms, also espalier; and the different modes of pruning to secure each form; the management of the vegetable garden, the harvesting and care of fruit and vegetables.

This department is well prepared to offer excellent advantages for the study of floriculture in every line. The greenhouse is large and is well supplied with many varieties of choice plants.

A new horticultural building will be erected during the summer and the greenhouse will be enlarged and improved.

Attention is given to landscape gardening and the decoration of ornamental grounds.

The regulations respecting student labor are the same in this department as in the Agricultural department. Students are required to work five hours a week without pay; other student labor is paid at the rate of fifteen cents per hour.

Text-book—Barry's "Fruit Garden."

Zoology and Entomology.

F. L. WASHBURN, A. B., Professor.

1. **PHYSIOLOGY:** (Second-Year Students.) *First Term:*—Recitations 3 hours per week. Laboratory work, 2 consecutive hours, twice a week.

Second Term:—Recitations 5 hours per week during first half term. Recitations 3 hours a week; laboratory work, 2 consecutive hours twice a week, during second half term.

2. **GENERAL ZOOLOGY:** (Third-Year Students.) *First Term:*—Lectures, recitations, and demonstrations, 5 hours a week.

3. **GENERAL ZOOLOGY:** (Optional with Third and Fourth-Year Students. Open only to those who have taken No. 2.)

Second Term:—Recitations or lectures 3 hours per week. Laboratory work, 2 consecutive hours, twice a week.

4. **ECONOMIC ENTOMOLOGY:** (Third-Year Students. Open only to those who have taken either Nos. 2 or 3.)

Third Term:—Recitations 3 hours a week with laboratory work, 2 consecutive hours, twice a week during first half of term. Recitations, laboratory work, and field work, 5 hours a week during second half term.

General Zoology.

By comparing the structure of different animals the student learns the significance and the principles of classification. The embryonic development of a typical vertebrate is studied in the laboratory toward the close of the second term. Courses 1, 2, and 3 while of great value to all students will prove of especial service to those intending to study medicine.

Text-book: Orton's "Comparative Zoology." Laboratory books: Marshall & Hurst's "Practical Zoology," Colton's "Zoology," Brooks' "Invertebrate Zoology," Parker's "Zootomy," "Foster and Balfour's Elementary Embryology."

Physiology.

In Physiology each student dissects, under the instructor's direction,



DEPARTMENT OF ZOOLOGY.



DEPARTMENT OF BOTANY.

a typical mammal, in order to get a general idea of mammalian anatomy and better to understand references to text-book. Drawings of these dissections are required. Laboratory work further consists of demonstrations illustrating circulation of the blood, composition of blood, mechanism and chemistry of respiration, optical phenomena, reflex action, etc., and the study of the principal tissues with the microscope.

In this course special attention is given by the student to familiarizing himself with the laws of health.

Text-book: Martin's "Human Body."

Economic Entomology.

In Economic Entomology the student becomes thoroughly familiar with the structure of a typical insect by dissections in the laboratory, and then, with this as a foundation, studies the classification of insects. In this course each student is required to make a collection of 300 of the more common insects of the State, and to classify them; he is made acquainted with the habits and history of insect pests of the orchard and farm, and the best means of exterminating them. In the field each student will be required to familiarize himself with the composition and proper use of the more common insecticides.

Text-book: Packard's "Entomology for Beginners."

The Zoological Museum affords specimens to illustrate lectures and recitations in all courses in Animal Biology. It is hoped that friends of this institution by their liberality will help to build up a representative collection of our State fauna.

Botany.

MOSES CRAIG, M. S., Professor.

The object of a course in Botany is not simply to teach students from books the structure, growth, and uses of plants but to train them to observe for themselves and thus become true students of nature. So throughout this course special attention will be paid to laboratory work where the mind, hand, and eye are trained to work in unison.

The arrangement of studies, as regards collegiate terms and years, is shown below:

SECOND YEAR.—Third Term.—Structural and Systematic Botany. Recitations, lectures, and laboratory work 5 hours per week. Gray's "Revised Lessons in Botany" is used as a text-book with Rattan's "Key to West Coast Botany" as a guide in plant analysis. This work is introductory to all botanical study and is required in the Agricultural and Household Science courses.

THIRD YEAR.—Second Term.—Vegetable Physiology. Recitations, lectures and laboratory work, 5 hours per week. Text-book, Beney's "Essentials of Botany." In the first half term, while studying the life and growth of plants, the more important plant tissues are examined microscopically and drawn; the remaining time is devoted to the lower plants of economic importance such as Bacteria, Mildews, Rusts, Smuts, Mushrooms, Mosses, Ferns, etc.

Third Term.—Economic Botany. A study of special groups such as

medicinal, fibre, and food producing-plants; forestry, herbarium work, etc. recitations. lectures and laboratory work 5 hours per week.

The opportunity for special botanical work is excellent as the department is well equipped with materials and apparatus to illustrate the above subjects, and our herbarium of 5000 species includes almost all the Pacific Coast plants.

Chemistry, Physics, Geology, and Mineralogy.

G. W. Shaw, A. M., Professor.

Chemistry.

First Year,—Third Term.—General experimental and theoretical chemistry. Laboratory work, 2 consecutive hours on alternate days.

Second Year.—First Term.—General Chemistry and introduction to qualitative analysis. Recitations 3 hours per week; laboratory work 2 consecutive hours twice each week.

Second Term.—Chemistry of the metals and qualitative analysis. Laboratory work 2 consecutive hours, 3 times each week; recitation twice each week.

Third Term.—Introduction to inorganic Chemistry. Recitations on alternate days. Laboratory work 2 consecutive hours on alternate days,

Physics.

Third Year.—Second Term.—Dynamics of Solids, Liquids, and Gases; Heat. Recitation 3 hours per week; Laboratory work 2 consecutive hours twice a week.

Third Term.—Sound, Light, and Electricity. Recitations and Laboratory work on alternate days; Laboratory exercise two hours each week.

Geology and Mineralogy.

This course covers the last two terms of the Fourth year, and consists of recitations and laboratory work, and the study of the more common rocks and minerals.

The Chemical and Physical Laboratories.

The Chemical Laboratory is situated in the basement of the Station building. The equipment of the laboratory is now sufficient for the complete illustration of all the laws of the subject, much new material having been added during the past year. Each student is supplied with a full set of apparatus, as well as reagents for his experiments, and is required to perform a series of illustrative experiments under the direction of the instructor. The laboratory is supplied with gas and water and, in short, affords facilities for the study of chemistry which are not equaled in the North West.

The Physical Laboratory is located on the lower floor of the main building and the equipments includes apparatus for the demonstration of the different subjects in Physics, as well as instruments of precision for laboratory practice. Most of the apparatus has been imported from Germany and is the best that can be secured.

Mechanics and Mechanical Engineering.

G. A. COVELL, M. E., Professor.

The course in Mechanical Engineering is a four-year course leading to the degree of Bachelor of Mechanical Engineering. It is intended especially for young men who expect to enter an industrial vocation and for those who are already or expect to be, connected with some of the manufacturing establishments of the country.

The following is an outline of the work in the Mechanical Department:

FIRST YEAR.—Shop Work.—Wood-working, including Carpentry, Joinery, and Wood-turning, 5 hours per week throughout the year.

SECOND YEAR.—Mechanical Drawing begun in first term and continued through two terms, 5 hours per week.

Shop Work.—Blacksmithing extends through the year, 5 hours per week. The work includes forging, welding, and the making and tempering of tools.

THIRD YEAR.—Drawing continued during Fall term, 5 hours per week.

Elements of Mechanism, 5 recitations per week during first two terms.

The study of the Steam Engine during the Spring term, 5 recitations per week.

Work in Machine Shop, including vise and machine-work, 5 hours per week throughout the year.

FOURTH YEAR.—Steam Engine, continued, 5 recitations per week.

Mechanics, 5 recitations per week during the year.

Machine Design, 5 recitations per week during Winter and Spring terms.

Shop Work.—Building, repairing, and setting up machinery, 5 hours per week during the year.

Text-books.—The text-books used are: Woods' Elementary Mechanics, Stahl & Woods' Elements of Mechanism, Wilson's Steam Boilers, Holmes' Steam Engine, Unwin's Machine Design.

The uses of the various tools in the shop are taught by a series of exercise pieces which the student is required to make. After completing the exercises, the regular work consists in building and repairing machinery in the Machine Shop, mending farm implements and making tools in the blacksmith shop, and other useful articles in the wood shop. So far as possible all work in the shops is executed from drawings and blue prints, which must be followed accurately.

In the drafting room the student begins with linear drawing and follows a progressive course until he is able to make complete working drawings of whole machines, and finally he is encouraged to produce designs of his own and make complete drawings and blue prints of them.

The scientific principles involved in machines and mechanical movements are taught in the classroom, as well as the application of mathematics to problems in mechanical engineering. The student is required to solve original problems and to depend upon his own judgment and ingenuity as far as possible.

Buildings.

The present Mechanical Hall is a two-story brick building 38 × 78 ft

with a wing 20 X 32 feet. Additions will be made during the summer which will more than double its present size. This building will be devoted wholly to the use of the Mechanical Department with the exception of one room which will be occupied by the College printing office.

The present black-smith shop will be increased to double its present capacity, making room for twenty forges. The wood-working shop will be more than double its present capacity; and the drafting rooms will be greatly enlarged.

Equipment.

The shops will be well equipped with tools and machinery from the best makers in the country; the idea being not only to have the shops well supplied with the necessary tools but also to make each shop a model as regards quantity and systematic arrangement.

In the wood-working room are sixteen carpenter benches, each furnished with a locker containing a set of tools. There are also two turning lathes, one pony planer, one circular saw, one scroll saw, one band saw, besides numerous small tools for general use not included in the regular sets.

The blacksmith shop contains nineteen stationary forges having power blast and one portable forge to be operated by hand. The blast is supplied by a Buffalo blower, and the smoke is removed through a system of sheet-iron pipes, by an exhaust fan placed in the room above. Anvils, hammers, swedges and the usual number of small tools complete the equipment.

The machine shop is supplied with benches, vices, files, etc. for hand work, and one 24-inch drill press, one 16-inch shaper, one 12-inch speed lathe, one 16-inch and one 14-inch screw-cutting lathes for machine work, besides reamers, mandrels, screw plates, scales, calipers, and various small tools.

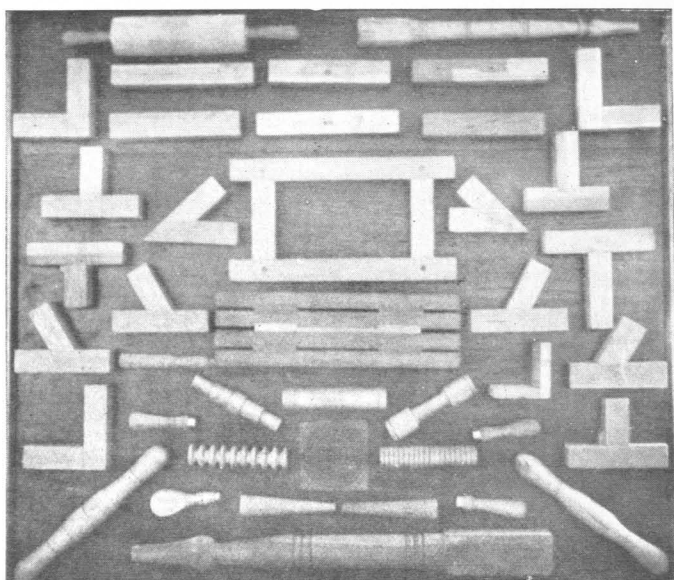
Motive power for the shops and printing office is furnished by a fifteen-horse power engine.

Household Economy and Hygiene.

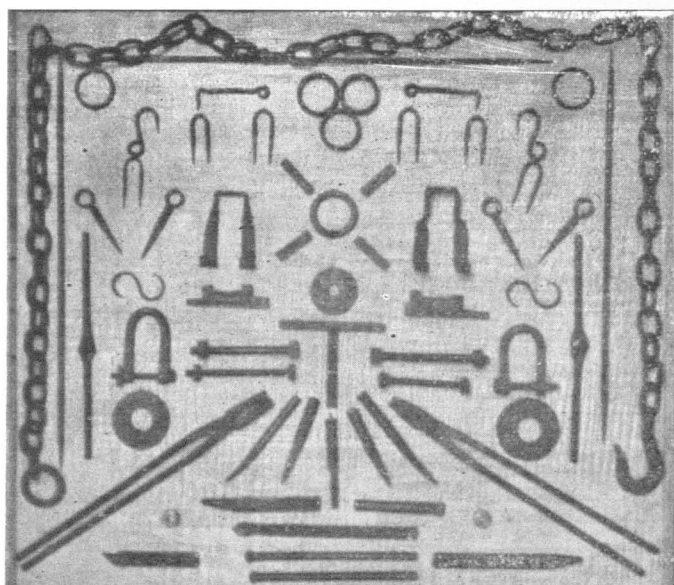
MARGARET C. SNELL, M. D., Professor.

The object of this department is to teach girls how to cook; the art of sewing, cutting, and fitting; the elements of the milliner's art; and how to take care of their own health and that of a family. Few things contribute so much to the welfare of a family, and hence of the State, as the attention given to secure the health of the household. The proper preparation of food is useful in two respects: first, it leads to health, and secondly to economy. The best manner of preparing food for the table, as well as the best methods of serving it, are taught in this department, nor are these small matters. This department endeavors to infuse refinement into the culinary department of home life. True household economy requires that every girl should be able to cut and fit her own clothing, and to trim her own hat or bonnet. To this art much time is given.

Special attention is given to the subject of hygiene, by lecture and daily precepts, the purpose of this teaching being to inspire all with the necessity of hygienic living as the only guarantee to happiness and success in life.



MECHANICAL DEPARTMENT. WORK IN WOOD.



MECHANICAL DEPARTMENT. BLACKSMITHING.

Military Science and Tactics.

Instruction in this department is both theoretical and practical, and is required by the Act of Congress, which contributed so large a part of the College encowment. All the students not physically incapacitated from bearing arms, are regularly drilled in the school of the soldier and company, whilst the cadet officers and members of the senior class study Upton's "Infantry Tactics".

Experience has also demonstrated that the drill furnishes excellent physical culture, insures regular and healthful exercise, secures a graceful carriage and dignified bearing, and cultivates the habit of prompt obedience, self-control, and the power to command.

A neat uniform of cadet blue, suitable for all occasions, is required to be worn by the male students during school hours. At the reasonable price at which the College is able to obtain it by contract, it makes an extremely economical dress. The cost of the entire suit—coat, pants, vest, and cap is about \$17.

The male students are divided into companies, which are officered by cadets, selected for proficiency in soldierly attainments, good deportment and scholarship. The cadet officers are expected to be examples in military deportment and general good conduct, and when on duty their orders are required to be obeyed and respected.

This department will be under the charge of a regular United States army officer.

Printing.

H. R. CLARK, Instructor.

This valuable department has recently been added to the institution. The most improved steam-power presses and other printing-office materials have been put into the plant. The rooms, located in the mechanical building, are lighted by electricity.

A limited number of students will be permitted to take the course in type-setting and printing. Those found competent to undertake this work but who are unfitted for other manual labor will be first selected. It is hoped that an opportunity to learn this art can be given to all those who may desire it.

Photography.

EMILE PERNOT, Instructor.

This department was added to the College facilities two years since. Students of the third and fourth years will have an opportunity to learn the rudiments of this art as an optional study.

The student is required to go through all the processes in producing the photograph and study of the history and the growth of the art.

All the apparatus necessary for this department has been provided. Here all the illustrations of the bulletins issued by the institution as well as

those contained in the catalogue have been prepared from original photographs.

Book-Keeping.

W. W. BRISTOW, A. B., Professor.

During the first term of the first year the subject of Book-keeping is presented and pursued in a very thorough manner, beginning with the simplest forms of cash accounts and developing all the principles of single and double-entry, with strict reference to those forms best adapted to farm and business life.

Text-book—Williams.

Literary Work.

In addition to the work in the several Departments indicated in the preceding pages, literary work is required of each student in the institution. Two literary societies have been organized in the College Department, the Websterian and the Ciceronian. Into these, at their organization, an equal number of students of each class was chosen. These societies were each divided into two chapters. While the society and the chapter work has been under the immediate control of officers elected by the students, yet to each chapter two or more professors have been designated to aid the students in their work.

The work undertaken by the societies was: select readings, essays, declamations, and debates. This work has been so arranged that each student comes on duty once in two weeks.

In the preparatory department, two societies were formed, the Athenian and the Madisonian. These, being comparatively small in numbers, were not divided into chapters, but the same order of work was required.

The College and Preparatory societies each have held public contest. A suitable medal has been provided for both the college and the preparatory department, and is worn by the president of that society which wins in the public contest.

The work in these societies has been of the greatest value to the students. Literary work has been undertaken and carried on with much interest. A generous rivalry exists between the societies, and the public contests have done much to inspire excellence in the work of the student.

These societies meet on Monday afternoon of each week.

In addition to these societies, a voluntary literary society, the Hesperian, meets each Friday evening.

All students who desire may become members of this society.

Improvements.

Before the opening of the fall term Sept. 22, 1893, the Mechanical building will be doubled in its capacity. A new barn will be constructed, a new Horticultural building will be erected and the capacity of the green-houses greatly enlarged. The opportunities for work in the school will be greatly increased.

CONDITIONS OF ADMISSION.

Unless the student has a free scholarship it will be necessary for him to pay the tuition for the term in advance. The tuition is \$5 per term.

TO THE PREPARATORY DEPARTMENT.

Applicants in order to be admitted to the Preparatory Department must be fifteen years old, and must pass a satisfactory examination in the following branches: Reading, Writing, Spelling, Elementary Geography, and in Arithmetic to Percentage. It would be useless to apply for an examination for entrance into this department unless the applicant is of proper age. It would be still more useless to apply unless the student is well grounded in the subjects enumerated above.

TO THE FIRST YEAR'S COLLEGE CLASS.

In order to enter the first Year's Class the applicant must pass a satisfactory examination in Reading, Spelling, Geography, Arithmetic, written and mental, and English Grammar.

Rules.

1. Students upon their arrival at the College must report at once to the President, who will give them directions as to examinations and classes.

2. Students from other schools must bring certificates of good conduct from the faculty of the schools whence they come.

3. Students before being admitted to classes must pay their tuition fee.

4. Reports of absence or misconduct will be handed to the President and students will be required to answer for such absence or misconduct, and the President will at once assign such penalty as the case may require.

5. Students from a distance must live in the Boarding Hall or in special cases, in such families as shall be approved in writing by the parents of the Student, and by the President of the College. Such students must be in Hall for the night by seven o'clock, from Monday to Friday, and 9 o'clock on Saturday and Sunday, unless in cases of special permission for leave until a later hour, and this rule will apply throughout term time: "In Hall," will be construed to extend to such precincts of the Halls as the Faculty shall determine. Students residing, by permission, in Corvallis will not be allowed to be on the streets of the city after 9 P. M.

COURSE OF STUDY.

The course of study given below is the same as that which has been used during the past year.

If changes are made they will be announced by other circulars.

PREPARATORY DEPARTMENT.

The course of study in the Preparatory Department is the same whether the student takes the Agricultural, the Household Economy, or the Mechanical course.

First Term.	Second Term.	Third Term.
Arithmetic.	Arithmetic.	Arithmetic.
English Grammar.	English Grammar.	English Grammar.
Geography, Completed.	U. S. History.	U. S. History.
Reading.	Reading.	Reading.
Spelling and Writing.	Spelling and Writing.	Spelling and Writing.

COURSE OF STUDY.

FIRST YEAR.

	AGRICULTURE.	MECHANICS.	HOUSEHOLD ECONOMY.
Fall Term.	Algebra, English Comp. U. S. History, Book-keeping.	Algebra, English Comp. U. S. History, Book-keeping, Shop-work.	Algebra, English Comp. U. S. History, Book-keeping, Sewing.
Win. Term.	Algebra, English Comp. Gen. History, Drawing, Horticulture.	Algebra, English Comp. Gen. History, Drawing, Shop-work.	Algebra, English Comp. Gen. History, Drawing, Horticulture, Sewing.
Spr. Term.	Algebra, English Comp. Drawing, Chemistry, Breeds of Stock.	Algebra, English Comp. Drawing, Chemistry, Shop-work.	Algebra, English Comp. Drawing, Chemistry, Sewing.

SECOND YEAR.

	AGRICULTURE.	MECHANICS.	HOUSEHOLD ECONOMY.
Fall Term.	Geometry, Chemistry, Physiology, Drainage.	Geometry, Chemistry, Physiology. Mechan. Drawing Shop-work.	Geometry, Chemistry, Physiology. { Preserving & Canning of Fruits, Cooking.
Winter Term.	Geometry, Chemistry, Physiology, ($\frac{1}{2}$) Soils and Manures Shopwork.	Geometry, Chemistry, Physiology, ($\frac{1}{2}$) Mechan. Drawing Shop-work.	Geometry, Chemistry, Physiology, ($\frac{1}{2}$) Modern History, { Cooking and Chemis- try of Cooking.
Spring Term.	Trigonometry, Chemistry, ($\frac{1}{2}$) Botany, Stock Breeding, $\frac{1}{2}$ Horticulture.	Trigonometry, Chemistry, ($\frac{1}{2}$) Botany, Drawing, Shop-work.	Trigon. or Ancient His.. Botany, Floriculture, ($\frac{1}{2}$) Horticulture, ($\frac{1}{2}$) Dressmaking, Sewing.

THIRD YEAR.

	AGRICULTURE.	MECHANICS.	HOUSEHOLD ECONOMY.
Fall Term.	Pol. Economy. Rhetoric. Zoology. Veterinary.	Pol. Economy. Rhetoric. Anal. Geometry. El. of Mechanism Shop-work.	Pol. Economy. Rhetoric. Zoology. Latin, (Optional) Dressmak. & Millinery.
Win. Term.	Physics. Plant Physiology. Zoology. Stock-feeding. ($\frac{1}{2}$) Meteorology. ($\frac{1}{2}$)	Physics. Anal. Geom.. ($\frac{1}{2}$) Calculus. ($\frac{1}{2}$) Eng. Literature. Mechanism. Shop-work.	Physics or Meteorology. Latin. (Optional) Zoology. English Literature. Special Hygiene.
Spring Term.	Physics. Entomology. Botany. Surveying. ($\frac{1}{2}$) Road-making. ($\frac{1}{2}$)	Physics. Calculus. Steam Engine and Motors. Drawing & Design	House Furnishing and Kitchen Gardening. English Literature. Latin, (Optional.) and Two { Physics, of { Botany. these. { Entomology.

FOURTH YEAR.

	B. S. COURSE.	B. M. E. COURSE.	B. L. COURSE.
Fall Term.	English Lit. Analytical Geom. Physics. Latin.	English Lit. Mechanics. Physics. Steam Engine. Shop Work	English Literature, Latin, Physics. Social Etiquette.
Win. Term.	Psychology. Anal. Geom.. ($\frac{1}{2}$) Calculus. ($\frac{1}{2}$) Geology. Latin.	Psychology. American Lit.. Mechanics. Machine Design. Shop Work.	Psychology. American Literature. Latin. Sanitary Science.
Spr. Term.	Ethics. Calculus, Mineralogy, Latin.	Ethics. English Lit.. Mechanics. Shop Work.	Ethics, English Literature. Latin. Care of the Sick.

NOTE:—The above course of study is subject to modification by the committee, but will not be materially changed.

Choral singing for a quarter of an hour daily is made obligatory on the whole school.

Printing optional from beginning of the first year.

EXPENSES.

The cost of tuition is five dollars per term, or fifteen dollars per year for each student.

State students (those holding scholarships) have free tuition.

The Board of Regents has provided for the board and lodging of students in the Cauthorn and the Girls' Hall; accommodating respectively 120 boys and 50 girls, at a charge of \$2 50 a week.

The estimated expenses, including heat and light, are as follows:

Board, per year, @ \$2.50 per week.....	\$ 100 00
Tuition.....	15 00
Uniform (coat, pants, vest and cap, boys) about.....	17 00
Books, washing, etc.....	24 00
Total for year.....	\$ 156 00

Each room in the Halls is furnished with a chest of drawers, chairs, a headstead with springs, a mattress, pillow, and mirror.

Hence the student must furnish his bedding, viz: sheets (at least three,) pillow-cases, blankets, quilts, towels, brushes, etc. In fact, he must furnish all those things which will make his room comfortable.

He should bring those books which would be useful for study or reference. He should have a good dictionary, Webster's Unabridged, or the Academic is recommended.

Students desiring to board elsewhere than in the Halls must obtain the written sanction of their parents or guardians, and of the President

Students who work in the Chemical Laboratory will be required to make a deposit of \$1 50 to cover breakage, and will probably be required to pay a small fee covering the value of the material used.

Students laboring on the farm and gardens, receive pay at the rate of 15c per hour. Only a comparatively few persons can be so employed as the amount of work to be done is limited. Those only who by their work prove to be valuable laborers will be retained at work.

OBSERVATIONS AND REGULATIONS.

Every student who enters this school is expected to be honest, to speak the truth, to obey all rules expressed or implied, to be polite and respectful in his bearing towards fellow students and the faculty, and to visitors and employes; to be prompt, attentive, and diligent in his work.

Contempt of authority by disobedience, insolence, or in other ways, will be followed by suspension or other punishment.

Defacement or damage of College property, gambling, drunkenness, fighting, obscene or profane language, indecency, the entering of drinking or gambling saloons, or any offense liable to criminal prosecution, will be punished by suspension.

Whenever the College life of any student is such that his influence directly or indirectly, is injurious to the work of the institution, he will be relieved from further attendance at the State Agricultural College.

STATE STUDENTS.

The following is the law relating to State Students' Scholarships, and is found on page 12, section 8, of the general laws of 1885:

NUMBER FOR EACH COUNTY.

Until the Legislative Assembly shall otherwise direct, each Senatorial and Representative district in this State shall be entitled to gratuitous instruction for as many pupils as said district now has of Senators and Representatives in the Legislative Assembly, and also each county in the State shall be entitled to one free scholarship in said College, all of whom shall be selected as follows:

METHOD OF APPOINTMENT.

The County School Superintendent in each county shall receive and register the names of all the applicants for admission nominated by the Senators or Representatives of that county, and shall present the same to the county court sitting for the transaction of county business, and from the applicants found to possess the requisite qualifications the number of pupils to which such county is entitled shall be selected by lot.

QUALIFICATIONS.

The persons so selected shall be residents of the county for which they are selected, and shall possess such educational and other qualifications as the Board of Regents prescribe.

VACANCIES.

Vacancies occurring shall also be filled by the county court as hereinbefore provided.

JOINT SENATORS.

In Senatorial and Representative districts composed of more than one county, the Senator or Representative for that district shall have the power to nominate and appoint one student for such district, who shall be received in said College on the same terms as the students appointed by the county court.

FEMALES MAY BE APPOINTED.

One-third of said students appointed as aforesaid may be females.

Each applicant for a free scholarship must apply to the Senator or Representative of his county and be appointed by him. His appointment must then be forwarded to the County Superintendent of Schools of that county, who will examine the applicant and if he is found prepared to enter the College, his name will be handed to the County Judge by the County School Superintendent during the session of the county court. The County Judge then selects the number to which his county is entitled by lot, and issues appointments to the applicants thus selected. The following is a list of the scholarships to which each county is entitled:

SUGGESTIONS.

First—The appointment by the court or by joint representative or senator entitles the student to a complete course in the institution without further appointment, provided his attendance is continuous.

Second—Absence from the institution for more than one term will be held to forfeit the scholarship if there are other applicants. Exceptions may be made in case of protracted sickness.

Third—Those who have graduated from the three-year course can complete the four-year course without the renewal of the scholarship.

Fourth—Continued suspension, or expulsion forfeits the scholarship.

Below will be found the number of free scholarships to which each county is entitled and also the list of students who are entitled to free scholarships in the College next term if they return, and following each name will be found the source of the appointment, whether by the court or by the joint representative or senator.

* Indicates that the senatorial district to which the county belongs, is entitled to one free-scholarship, the applicant to be selected by the joint senator.

† Indicates that the Representative district to which the county belongs.

is entitled to one free-scholarship, the applicant to be selected by the joint Representative.

*BAKER Co., Free Scholarships..... 2	1. Chandler, Marvin—Court.	2. Baisley, Perry—Court.	3. Hanna, Anna—Joint.	LINN Co., Free Scholarships..... 6	1. Applewhite, Lee—Court.	2. Wicks, Lettie—Court.	3. Morrison, A. D.—Court.	4. Adamson, J. E.—Court.	5. Adamson, D. P.—Court.		
BENTON Co., Free Scholarships..... 3	1. Wyatt, M. A.—Court.	2. Hufford, Edwin—Court.	3. Barker Bessie—Court.	*MALHEUR Co., Free Scholarships..... 2	1. Johnson, Lionel A.—Court						
*CLACKAMAS Co., Free Scholarships..... 5	1. Andrews, L. B.—Court.	2. Lawrence, Erma—Court.	3. Casto, Lake—Joint.	*MARION Co., Free Scholarships..... 8	1. Looney, W. W.—Court	2. Stout, Anna—Court.	3. Voorhees, Mollie—Court.	4. Zimmerman, A. D.—Court.	5. Terrell Ralph—Court.	6. Cooley, Inez—Court.	7. Hunter, Jesse—Court.
CLATSOP Co., Free Scholarships..... 4											
*COLUMBIA Co., Free Scholarships..... 2	1. Watts, E. T.—Court.	2. Caples, Fred C.—Court.	3. Pomeroy, W. J.—Joint.	*MORROW Co., Free Scholarships..... 2	1. Lacy, W. B.—Court.	2. Leach, Altha—Joint.					
*COOS Co., Free Scholarships..... 2	1. Herron, John R.—Court.	2. Stemler, Milton—Court.	3. Abernathy, E. P. S.—Joint.	MULTNOMAH Co., Free Scholarships..... 15	1. Keady, W. F.—Court.	2. Botevuir Frank—Court.	3. Liebe, Henry—Court.	4. Bundschuh, Fred—Court.	5. Casto, Julia—Court		
*CROOK Co., Free Scholarship..... 1											
*CURRY Co., Free Scholarships..... 1											
DOUGLAS Co., Free Scholarships..... 5	1. Mocine, John—Court.	2. Mocine, Ralph—Court.	3. Home, Percy—Court.	4. Willis, Dale—Court.	5. Willis, Effie—Court.	POIK Co., Free Scholarships..... 4	1. Johnson, Fred—Court.	2. Bronson, Hattie—Court.	3. Swann, L. L.—Court.	4. Emmett, E. G.—Court.	
*GILLIAM Co., Free Scholarships..... 2	1. Edwards, Frank—Court.	2. Parsons, Franc—Joint.									
**GRANT Co., Free Scholarships..... 1	1. Skinner, W. L.—Court.										
**HARNEY Co., Free Scholarships..... 1											
JACKSON Co., Free Scholarships..... 5	1. Beall Thomas—Court.										
*JOSEPHINE Co., Free Scholarships..... 2	1. Oren, L. W.—Court.										
*KLAMATH Co., Free Scholarships..... 1	1. Kessler, Harry—Court.	2. Lewis, A. C.—Joint.	3. Lee, W. T.—Joint.								
*LAKE Co., Free Scholarships..... 1											
LANE Co., Free Scholarships..... 6	1. Callison, O. F.—Court.	2. Rowan, N. J.—Court.	3. Williams, Julia—Court.								
*LINCOLN Co., Free Scholarships..... 1	1. Depew, Clarence—Joint.										

The following are the Joint Senatorial Districts : Baker and Malheur ; Clackamas and Marion ; Columbia, Washington, and Tillamook ; Coos, Curry, and Josephine ; Crook, Klamath, and Lake ; Gilliam, Sherman, and Wasco ; Grant, Harney, and Morrow ; Gilliam and Wasco ; Umatilla and Union ; Union and Wallowa.

The following are the Joint Representative Districts : Coos and Curry ; Grant and Harney ; Klamath and Lake ; Sherman and Wasco (two joint representatives) ; Tillamook and Yamhill.

Sunday Lectures.

At the beginning of the year a series of Sunday lectures were undertaken. The purpose was to have a lecture on each alternate Sunday. The subjects were restricted to those which had a moral bearing and whose tendency would be to cultivate higher ideals of our duties to God, the state, and our fellow man.

In general, the plan undertaken succeeded beyond expectation, yet it has been impossible to secure speakers always on the dates fixed. The following lectures have been given.

"Practical Thoughts for Students," Rev. H. Gould, of Corvallis; "Concentration in Study," Rev. J. A. Townsend, Independence; "College Men as Factors in Society," J. A. Dummett, Portland; "The Manly Man," Pres. Geo. Whitaker, Willamette University; "The Work of the World," Pres. P. L. Campbell, State Normal School; "Mathematical Order in the Universe," Pres. C. C. Stratton, Portland University; "The Christian Religion and Science as Factors in Civilization," Pres. John M. Bloss, Corvallis; "Current Literature," Pres. E. N. Condit, Albany Collegiate Institute; "A Business Man's View of Life," C. L. Fay of Portland; "Fragments," Hon. Wallis Nash, of Corvallis; "Lessons from Astronomy," Prof. W. N. Ferrin, of Pacific University; "Abraham Lincoln," Lydell Baker, Portland; "Physical Geography of the Northwest," Capt. C. Rockwell, of Portland; "Shakespeare's Use of the Bible," Rev. George F. Plummer, Corvallis; "Beyond the Shore Line," Rev. W. C. Kantner, of Corvallis.

The College Cadet Band.

Last year a college band was organized, instruments were secured partly by private contributions and partly through the assistance of the Board of Regents. During the first year and the larger part of this year, they were under the direction of Prof. G. W. Shaw. More recently W. C. Williams of the third-year class has been the leader.

The work accomplished has been very creditable. It is hoped that this organization may be well sustained during the coming year.

Military Science and Tactics.

Prof. John D. Letcher, Commandant.

During the Spring term of this year, the work in Military Science and Tactics has been under the direction of Prof. John D. Letcher. The following are the

OFFICERS OF THE CADET BATTALION.

STAFF.

N. J. Rowan, 1st Lieut. and Adjutant; L. L. Swann, Sergeant Major.

Company "A."

H. A. Andrews,	Captain,
L. D. Applewhite,	1st Lieutenant,
J. H. Gibson,	2d Lieutenant.
E. G. Emmett.	3d Lieutenant,
A. T. Buxton,	1st Sergeant,
D. P. Adamson,	2d Sergeant,
H. Caples,	3d Sergeant,
W. B. Lacy,	4th Sergeant,
M. Wyatt,	5th Sergeant.
Fred Caples.	1st Corporal,
W. J. Pomeroy,	2d Corporal,
D. Woodward,	3d Corporal,
A. Buchanan,	4th Corporal,
E. Irwin,	5th Corporal,

Company "B."

Horace Lilly.
G. W. Palmer.
W. F. Holman.
R. C. Finley.
L. B. Andrews.
A. C. Lewis.
M. Bump.
F. E. Edwards.
L. W. Oren.
E. R. Doughty.
I. D. Pike.
H. Williams.
R. C. Shipley.
F. A. Pomeroy.

Statistics.

Counties now represented in the Agricultural College.

COUNTIES.	Agri. Dept.	Mech. Dept.	Household Economy.	Bachelor of Science.	Prep. Dept.	Total.
Baker.....	2	1	1	0	2	6
Benton.....	10	25	42	7	40	124
Clackamas.....	3	1	3	0	1	8
Clatsop.....	0	0	0	0	0	0
Columbia.....	1	3	0	0	1	5
Coos.....	1	1	1	0	3	6
Crook.....	0	0	0	0	0	0
Curry.....	0	0	0	0	0	0
Douglas.....	1	5	3	0	8	17
Gilliam.....	1	1	0	0	2	4
Harney.....	0	0	0	0	0	0
Grant.....	0	0	0	0	1	1
Jackson.....	1	0	0	0	0	1
Josephine.....	0	0	0	0	0	0
Klamath.....	1	2	0	0	0	3
Lake.....	0	0	0	0	1	1
Lane.....	1	1	4	0	3	9
Linn.....	5	5	7	0	8	25
Lincoln.....	0	1	0	0	1	2
Malheur.....	0	0	0	0	1	1
Marion.....	0	5	4	0	7	16
Morrow.....	0	1	0	1	0	2
Multnomah.....	0	2	0	0	8	10
Polk.....	3	1	1	0	0	5
Sherman.....	0	1	0	0	0	1
Tillamook.....	1	0	0	0	0	1
Umatilla.....	0	0	0	0	2	2
Union.....	3	8	1	2	1	15
Wallowa.....	0	0	0	0	0	0
Wasco.....	1	0	0	0	2	3
Washington.....	1	2	0	0	2	5
Yamhill.....	3	2	0	0	0	5
Wash. State.....	0	2	0	0	1	3
California.....	0	0	0	0	1	1
Totals.....	39	70	67	10	96	282

Total in College Department	115 Males	71 Females	Total	186
Total in Preparatory Department	69 "	27 "	"	96
Total in all Departments	184 "	98 "	"	282

Comparative Statement of Enrollment.

YEAR.	Preparatory.	First Year.	Second Year.	Third Year.	Fourth Year.	Post Grad.	Total.
1887-1888.....	85	37	11	14	0	0	96
1889-1890.....	85	55	17	6	0	0	151
1890-1891.....	85	57	24	15	0	0	201
1891-1892.....	85	63	23	19	0	0	208
1892-1893.....	95	125	31	15	0	0	242

ALUMNI.

NETTIE SPENCER,	President.....	Portland.
F. E. WILSON.....	Secretary.....	Corvallis.
T. A. JONES,.....	Treasurer.....	Corvallis.

1870.

Jas. K. P. Curran, B. S.....	Farmer.....	Corvallis.
Robt. M. Veach, B. S.....	Farmer.....	Cottage Grove.
Alice E. Moreland, B. S (Biddle.).....		Healdsburg, Cal.

1871.

Geo. F. Burkhardt, B. S.....	Farmer.....	Albany.
H. McN. Finley, A. B.....	Farmer.....	Corvallis.
Jas. D. Fountain, B. S.....	Merchant.....	Ashland.
W. R. Privet, B. S.....	Teacher.....	Baker City.
Mary J. Whitby, B. S. (Harris).....		Corvallis.
*Fannie J. Henkle, B. S. (Kendall).....		Corvallis.

1872.

*Thomas C. Alexander, B. S.....	Lawyer.....	Corvallis.
*John Eglin, B. S.....	Lawyer.....	
Rosa Selling, B. S (Jacobs.).....		Corvallis.
Alonzo J. Locke, B. S.....	Surveyor and Farmer.....	Corvallis.
Jas. K. Weatherford, B. S.....	Lawyer—Member Board Regents.....	Albany.

1873.

Leander N. Liggett, B. S.....	Teacher.....	Prineville.
Clara M. Harding, B. S (Thayer).....		331 14th St., Portland.
William F. Herrin, B. S.....	Lawyer.....	San Francisco.
Oscar L. Ison, B. S.....	Lawyer.....	Baker City.

1874.

John R. Bryson, B. S.....	Lawyer.....	Corvallis.
Thos. H. Crawford, B. S.....	Lawyer.....	Union.
Emmet H. Taylor, B. S.....	Dentist.....	Corvallis.
*Emma Rice, B. S (Thayer).....		

The following were graduated in Moral Philosophy and Mathematics, and were proficient in Chemistry:

George A. Grimes.....	Surveyor and Farmer.....	Corvallis.
William C. Crawford.....	Minister and Merchant.....	Portland.

1875.

Ruben A. Fuller, B. S.....	Farmer and Teacher.....	Independence.
Phillip E. Linn, B. S.....	Teacher.....	

1876.

Addie M. Thompson, B. S. (Allen).....		Seattle, Wash.
Franklin Cauthorn, A. M.....	Physician.....	Union Block, Portland.
*Isaac Jacobs, B. S.....	Merchant.....	Portland.
George P. Lent, B. S.....	Real Estate and Loans, 205½ Morrison St.....	Portland.
Newton A. Thompson, B. S.....	Merchant.....	Seattle, Wash.
Minnie M. Arnold, B. S. (White).....		Corvallis.

1878.

Samuel T. Jeffreys, A. B.....	Representative and Lawyer.....	Corvallis.
Frederick W. Vincent, B. S.....	Physician.....	Pendleton.
Laura Booth, B. S. (Thompson).....		Yaquina City.
Elvin J. Glass, B. S.....	U. S. Signal Service.....	Helena, Mont.
Moses S. Neugass, B. S.....	Merchant.....	San Francisco.

1879.

*Ernest White, A. M.....	Teacher.....	
Bartholomew T. Soden, B. S.....	Merchant.....	325 E. Washington St. Portland.
Marion Elliott, B. S.....	Teacher.....	Prineville.
Dayton Elliot, B. S.....	Editor Ochico Review.....	Prineville.

1880.

William E. Yates, A. M.....	Lawyer.....	Corvallis.
Shubel G. McCann, A. B.....	Surveyor.....	
Lillian Glass, A. B.....	Teacher.....	Corvallis.
Hattie M. Henderson, B. S (Hanna).....		Hubbard
Edgar Grim, B. S.....	Lawyer.....	Portland.

*Deceased.

1881.

Elmer E. Charnan, A. B.	Druggist	Oregon City.
T. Leonard Charnan, B. S.	Real Estate Agent	Oregon City.
Jessie L. Lesh, B. S. (Taylor)		69 S. 5th St. Portland.
Ida Callahan, B. S. (Burnett)	Tutor, O. A. C.	Corvallis.

1882.

William V. Masters, A. M.	Lawyer	147 1st St. Portland.
Eda Jacobs, A. B.		Corvallis.
Bertha Greenberg, A. B. (Neugass)		San Francisco.
Alice M. Horning, B. S.	Teacher	Corvallis.
Nettie Spencer, B. S.	Teacher	425 Holliday Ave. Portland.
Abbie Wright, B. S.	Teacher	Albany.

1883.

William G. Emery, A. B.	Photographer, 410 E. Morrison St.	Portland.
William H. Holinan, B. S.	Bookseller and Publisher	Portland.
George B. Hovendon, B. S.	Farmer	Hubbard.

1884.

Lizzie J. Bayley, A. B.		Newport.
David H. Glass, A. B.	Merchant	Crawfordville.
Isador Jacobs, A. B.	Merchant	Corvallis.
*William F. Newton, A. B.	Physician	
Herbert G. Ray, A. B.	Chemist and Pharmacist	Portland.

1885.

Alonzo Allen, A. B.	Druggist	15 & Northeys St., Portland.
Fred. J. Yates, A. B.	Lawyer	Albany.
J. E. Whitney, B. S.	Book-keeper	211 First St. Portland.
Andrew S. Buchanan, B. S.	General Agent for Publishing House.	
Henrietta Harris, B. S.		564 Gilsan St., Portland.

1886.

Herbert Kittredge, A. M.	Teach. Portland University Univ. Park	Portland.
C. D. Thompson, A. B.	Farmer O. A. C.	Corvallis.
*B. F. Collins, B. S.		
O. W. Robbins, B. S.	Merchant	Molalla.
Harry Holgate, B. S.	Lawyer	Corvallis.
R. J. Wilson, B. S.	Surgeon	Corvallis.
Diana Newton, B. S.	Teacher	Portland.
Minnie McFarland, B. S.	Teacher	Albany.
Frances Harris, B. S.	Teacher	564 Gilsan St., Portland.

1887.

Laura Korthauer, B. S.	Teacher	Whatcom, Wash.
Robert Cooper, B. S.	Veterinary Surgeon	Corvallis.

1888.

J. H. Collins, A. B.	Prof. of English, Holmes' Bus. College	Portland.
William Hall, B. S.	Teacher	Woodburn.
William Stock, A. B.	Pharmacist	175 Third St., Portland.
Ella Jane Lilly, B. S.	Teacher	Corvallis.
Anna Robbins, B. S. (Lilly)		Molalla.
Mary Newton, B. S.	Teacher	Corvallis.
Lillie Groves, A. B.	Teacher	Corvallis.
Jessie Kittredge, A. B. (Groves)		University Park, Portland.
Gertie M. Strange, B. S. (Davis)		Oregon City.
Ira Allen, A. B.	Book-keeper	7 N Front Street, Portland.

1889.

J. C. Applewhite, B. S.	Lawyer	Corvallis.
H. L. Arnold, B. S.	Student at John Hopkins	Baltimore.
Clarence Avery, B. S.	Lawyer	272½ Morrison Street Portland.
J. G. Buchanan, B. S.	Farmer	Corvallis.
*R. G. Buchanan, B. S.		
Bertha Davis, B. S.		Corvallis.
Clara Fisher, B. S.		Corvallis.
Mollie Thompson, B. S. (Fisher)		Olympia, Wash.
Clara Irvine, B. S.	Teacher	McMinnville.
T. A. Jones, B. S.	Druggist	Corvallis.
Emma Mahoney, B. S. (Kittredge)	Teacher	110 Castre St. Oakland, Cal.
Emma Irish, B. S. (Webber)		Mt. Clemens, Mich.
Jessie Wilkins, B. S.	Hotel Proprietor	Independence.
E. E. Wilson, B. S.	Lawyer	Corvallis.

*Deceased.

1890.

A. S. Additon, B. S.	Civil Eng.	Corvallis.
B. Hamilton, B. S.	Student of Medicine	Baltimore.
May Warren, B. S.	Teacher	Grants Pass.
C. O. Wells, B. S.	Pharmacist	Corvallis.

1891.

Anna Allen, B. S.		Corvallis.
Joseph F. Alexander, B. S. A.	Druggist	Yaquina City.
John H. Starr, B. S.		Salem.

1892.

Mattie Avery, B. I.		Corvallis.
Lulu Chandler, B. H. E.	Teacher of Music	Ascention Academy, Baker City.
Nellie Davidson, B. H. E.		Corvallis.
Annie M. Denman, B. I.	Teacher	Cascades.
John Fulton, B. S.	U. S. Signal Service.	Corvallis.
Nellie M. Hogue, B. H. E.		"
Rose M. Horton, B. I.	Teacher	Cascades.
Charles L. Johnson, B. S.	Post Graduate O. A. C.	Corvallis.
Leon Louis, B. I.	Teacher	"
Barney S. Martin, B. S. A.	Lawyer	"
Ida M. Ray, B. I.	Teacher Kindergarten.	Portland.
Richard W. Scott, B. S. A.		Oregon City.
James W. Storms, B. S. A.	Teacher	Jacksonville.
Marie Lois Stewart, B. S.	Post Graduate.	Corvallis.
Minnie Waggoner, B. I.		Corvallis.

1893.

H. A. Andrews, B. M. E.		Oregon City.
Lee Applewhite, B. S. A.		Corvallis.
Hattie Bronson, B. H. E.		Lewisville.
Brady Burnett, B. S. A.		Corvallis.
Nellie Davidson, B. I.		Corvallis.
George Denman, B. S.		Corvallis.
Ross Finley, B. S. A.		Monroe.
Scott Goodall, B. S.		Union.
Hortense Greffoz, B. H. E.		Corvallis.
Altha Leach, B. H. E.		Lexington.
Erma Lawrence, B. H. E.		Oregon City.
Horace Lilly, B. M. E.		Corvallis.
Percival Nash, B. S. A.		Corvallis.
N. J. Rowan, B. S. A.		Pleasant Hill.
G. W. Palmer, B. M. E.		Baker City.
Anna Samuels, B. H. E.		Corvallis.
Ora Spangler, B. H. E.		Corvallis.
L. I. Swann, B. S. A.		Lewisville.
Mollie Voorhees, B. H. E.		Woodburn.

