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1880

ANNUAL REPORT

OF THE

AGRICULTURAL & MECHANICAL COLLEGE

OF KENTUCKY.

1879-'80.

WITH ANNOUNCEMENTS FOR SESSION OF 1880-'1.

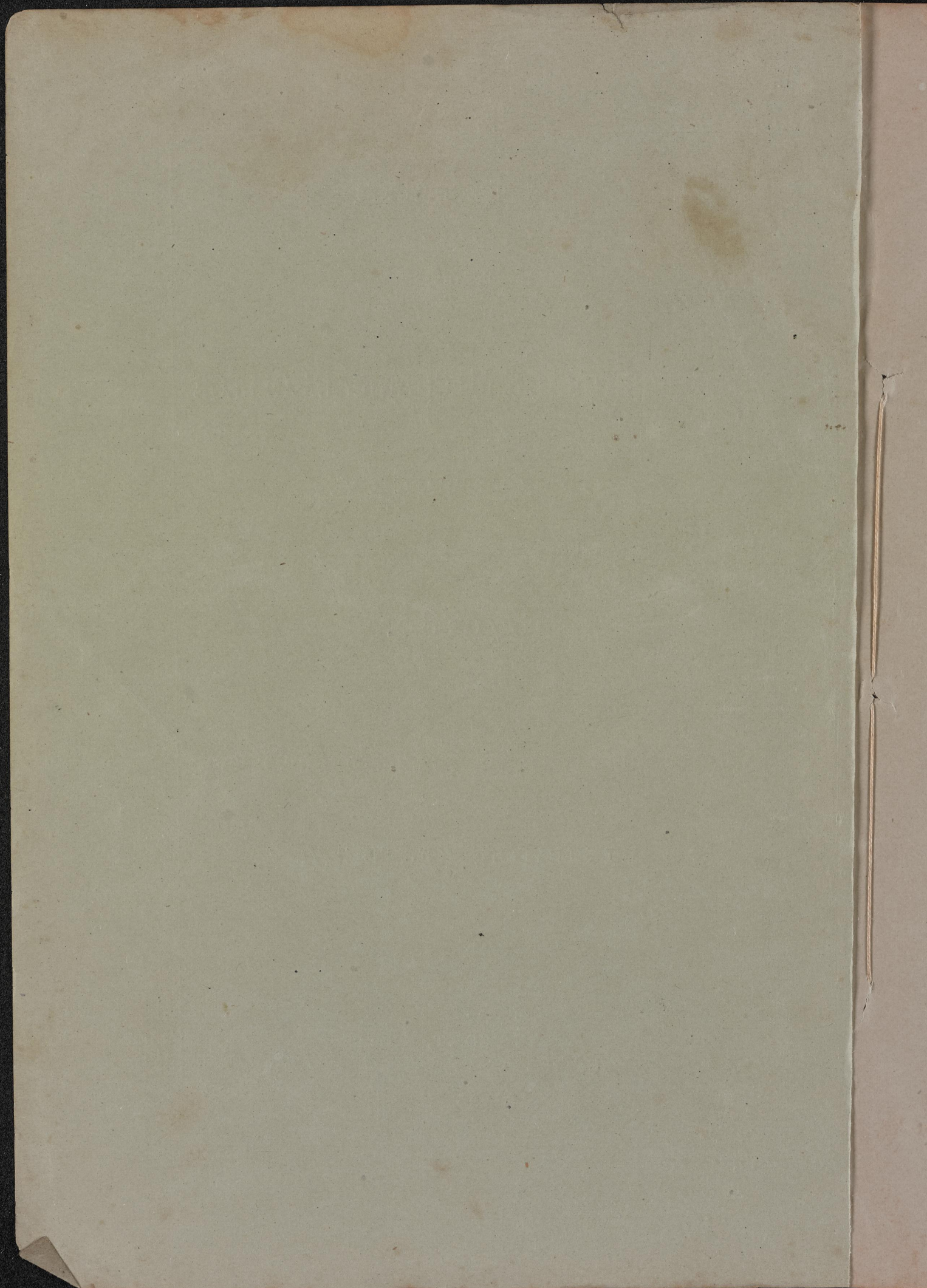
LEXINGTON, KENTUCKY.

FRANKFORT, KY.:

PRINTED AT THE KENTUCKY YEOMAN OFFICE.

E. H. PORTER, PUBLIC PRINTER.

1880.



ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

OF THE

AGRICULTURAL AND MECHANICAL

COLLEGE OF KENTUCKY,

TO HIS EXCELLENCY THE GOVERNOR OF KENTUCKY.

STATEMENT OF THE CONDITION, MATRICULATES, AND COURSE
OF STUDY FOR THE COLLEGIATE YEAR 1879-'80,
WITH THE ANNOUNCEMENT FOR 1880-'1.

SESSION BEGINS SEPTEMBER 13, 1880.

FRANKFORT, KY.:

PRINTED AT THE KENTUCKY YEOMAN OFFICE.

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EXECUTIVE COMMITTEE OF BOARD OF TRUSTEES
OF A. & M. COLLEGE OF KENTUCKY,
LEXINGTON, KY., June 30, 1880 }

HON. LUKE P. BLACKBURN, *Governor, Frankfort, Kentucky:*

I have the honor to transmit you herewith the Annual Report of the Board of Trustees of the Agricultural and Mechanical College of Kentucky.

Very respectfully,

Your obedient servant,

B. F. BUCKNER,

Secretary of the Board.

INTRODUCTORY.

Agricultural and Mechanical Colleges in the United States owe their origin to an act of Congress, entitled "An act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," approved July 2, 1862. The amount of land donated was 30,000 acres for each Representative in the National Congress. Under this allotment, Kentucky received 330,000 acres. Several years elapsed before the Commonwealth established an Agricultural and Mechanical College under the act. When established, it was not placed upon an independent basis, but made one of the Colleges of Kentucky University, to which institution the annual interest of the proceeds of the Congressional land grant were to be given for the purpose of carrying on its operations. The land scrip had meanwhile been sold for fifty cents per acre, and the amount received—\$165,000—invested in six per cent. Kentucky State bonds, of which the State became the custodian in trust for the College.

The connection with Kentucky University continued till 1878, when the act of 1865, making it one of the Colleges of said University, was repealed, and a commission appointed to recommend to the Legislature of 1879-'80 a plan of organization for an Agricultural and Mechanical College such as the necessities of the Commonwealth require. The city of Lexington offered to the Commission, which was also authorized to recommend to the General Assembly the place, which, all things considered, offered the best and greatest inducements for the future and permanent location of the College, the City Park, containing fifty-two acres of land, within the limits of the city, and thirty thousand dol-

lars in city bonds for the erection of buildings. This offer the county of Fayette supplemented by twenty thousand dollars in county bonds, to be used either for the erection of buildings or for the purchase of land. The offers of the city of Lexington and of the county of Fayette were accepted by the General Assembly.

By the act of incorporation, and the amendments thereto, constituting the charter of the Agricultural and Mechanical College of Kentucky, liberal provision is made for educating, free of tuition, the energetic young men of the Commonwealth whose means are limited. The Normal Department, for which provision is also made, is intended to aid in building up the Common School System by furnishing properly qualified teachers. This College, with the associated departments which will, from time to time, be opened as the means placed at the disposal of the Trustees will allow, will, it is hoped, in the no distant future, do a great work in advancing the educational interest of Kentucky. Being entirely undenominational in its character, it will appeal with confidence to people of all creeds and of no creed, and will endeavor, in strict conformity with the requirements of its organic law, to afford equal advantages to all, exclusive advantages to none. The liberality of the Commonwealth in supplementing the inadequate annual income arising from the proceeds of the land scrip invested in State bonds will, it is believed, enable the Trustees to begin and carry on, upon a scale commensurate with the wants of our people, the operations of the institution whose management and oversight have been committed to them by the General Assembly of Kentucky.

Board of Trustees of the Agricultural and Mechanical
College of Kentucky.

Chairman Ex Officio,
HIS EXCELLENCY GOVERNOR L. P. BLACKBURN.

Secretary,
JUDGE B. F. BUCKNER.

Trustees whose Term of Office Expires January 10, 1882.

JUDGE WILLIAM B. KINKEAD Lexington.
EX-CHIEF JUSTICE B. J. PETERS Montgomery county.
EX-GOVERNOR P. H. LESLIE Barren county.
HON. W. H. WADSWORTH Mason county.

Trustees whose Term of Office Expires January 10, 1884.

GEN. JAMES F. ROBINSON, JR. Lexington.
HON. JOHN G. SIMRALL Louisville.
GEN. DON CARLOS BUELL Muhlenburg county.
JUDGE B. F. BUCKNER Lexington.

Trustees whose Term of Office Expires January 10, 1886.

MAJ. ROBERT S. BULLOCK Lexington.
COL. L. J. BRADFORD Covington.
HON. A. R. BOONE Mayfield.
HON. P. P. JOHNSTON Fayette county.

Executive Committee.

JUDGE W. B. KINKEAD, CHAIRMAN.
JUDGE B. F. BUCKNER, SECRETARY.
MAJ. ROBERT S. BULLOCK, TREASURER.
HON. P. P. JOHNSTON.
GEN. JAS. F. ROBINSON.

FACULTY.

JAMES K. PATTERSON, Ph. D., F. R. H. S.,
PRESIDENT, PROFESSOR OF METAPHYSICS, CIVIL HISTORY, AND POLITICAL ECONOMY.

ROBERT PETER, A. M.,
PROFESSOR OF CHEMISTRY AND EXPERIMENTAL PHYSICS.

JOHN SHACKLEFORD, A. M.,
PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE.

JAMES G. WHITE,
PROFESSOR OF MATHEMATICS, PHYSICS, AND ASTRONOMY.

A. R. CRANDALL,
PROFESSOR OF NATURAL HISTORY AND DIRECTOR OF THE MECHANICAL DEPARTMENT.

MAURICE KIRBY, A. M.,
PROFESSOR OF THEORY AND PRACTICE OF TEACHING AND PRINCIPAL OF THE NORMAL
SCHOOL.

R. G. HOWELL, First Lieutenant U. S. A.,
PROFESSOR OF CIVIL, MECHANICAL, AND MINING ENGINEERING, DRAWING, AND MILITARY
SCIENCE.

F. M. HELVETI,
PROFESSOR OF THE FRENCH AND GERMAN LANGUAGES AND LITERATURE.

JOHN H. NEVILLE, A. M.,
PROFESSOR OF THE LATIN AND GREEK LANGUAGES AND LITERATURE.

T. C. H. VANCE,
PRINCIPAL OF THE COMMERCIAL DEPARTMENT AND ADJUNCT PROFESSOR IN THE NORMAL
SCHOOL.

WALTER K. PATTERSON,
PRINCIPAL OF THE PREPARATORY DEPARTMENT.

A. M. PETER, B. S.,
ADJUNCT PROFESSOR OF CHEMISTRY AND NATURAL HISTORY.

DAVID A. KING,
INSTRUCTOR IN PRACTICAL MECHANICS

PROFESSOR OF AGRICULTURE, HORTICULTURE, AND VETERINARY SCIENCE.

Report of the President of the College to the Board, June
8, 1880.

*To the Honorable Board of Trustees of the Agricultural and
Mechanical College of Kentucky:*

GENTLEMEN: The collegiate year 1879-'80, of the Agricultural and Mechanical College, has been even more encouraging in its results than the preceding one.

One hundred and thirty-six students have been matriculated, of whom 113 are from Kentucky and 23 from other States. This number exceeds that of the preceding year by 15 per cent., and that of the collegiate year 1877-8, the last of the connection of this College with the Kentucky University, by 76 per cent. As in the collegiate year 1878-'9, the inability to supply compensated labor to all who applied, prevented many from entering the College. The compensated labor system has always been a popular feature. It has enabled a large number to begin their studies who ultimately found other means of support, and who, but for the aid thus furnished them at the outset, would in all probability never have been able to make a beginning at all. Though student labor is unprofitable, and our experience in this respect is only that of all other colleges where compensated labor is furnished to students, still I believe the books of the Treasurer will show that the Institution has incurred little or no loss from this feature in its organization. I am glad to be able to state that the crops made last year were disposed of at fairly remunerative prices, the proceeds of which made even a larger balance than was estimated in the report which I had the honor to make to the Board of Visitors last year. I estimate that the unexpended balance on hand at the close of the fiscal year end

ing July 1, 1880, will not fall far short of \$2,700, besides the crop. This consists of 20 acres of wheat, 20 acres of oats, 30 acres of corn, and two acres of potatoes, all of which have been cultivated by student labor, and which it is estimated will yield about \$1,000 more, making the probable balance, when the crop is matured and gathered in, after paying for labor, about \$3,300.

The system adopted last year of providing elementary instruction by tutors was continued during the present. It was found necessary to meet the increased wants of the College through increased attendance, by employing additional tutors. The classes thus provided for were taught under the supervision of the Faculty, and in the main, with satisfactory results.

Instruction has been furnished in the several classes which make up the departments of Civil History, Political Economy, English Literature, Moral Philosophy, Modern Languages, Mental Philosophy, Chemistry, Agricultural Chemistry, Natural History, Practical Mechanics, and Civil Engineering. Provision was also made for giving instruction to two elementary classes in Latin. It is proper, in this connection, to add, that during the year now brought to a close, an advanced course in Agricultural Chemistry was given, and that, in addition to the hitherto existing course of instruction in Natural History, a series of lectures were given upon Economic Botany, upon the relation of Geology to soils, of forests to agriculture, and of insects to vegetation.

Four young men have completed, in a satisfactory manner, the course of study prescribed by the College, and are recommended by the Faculty to the Board for the degree of Bachelor of Science. They are: James Crawford, Winchester, Tenn.; Alfred Meredith Peter, Fayette county, Ky.;

Nicholas John Weller, Cave Spring, Ky.; George Croghan Whatley, Jacksonville, Ala.

I beg to express, in conclusion, my thanks for the hearty and intelligent co-operation of the Board of Visitors, to whom the management and control of the Institution was committed during the provisional period now brought to a close. To those, upon whom the weight of responsibility has chiefly fallen, the Commonwealth, I am sure, owes a debt of gratitude for the measures so wisely devised and so ably executed.

They took the Institution under their care, after its separation from Kentucky University, when in evil plight. There was not a cent in the treasury. There were neither seeds with which to plant the ground, on which its provisional existence was to be maintained, nor implements wherewith to cultivate it. It closed the last year of its connection with Kentucky University with seventy-eight matriculates; it closes the present year with one hundred and thirty-seven. All its obligations are paid up to date. It has paid oftentimes as much as \$125 per month for student labor; has made effective provision for preparatory instruction; bought some farming stock, and some machinery for practical mechanics, and will close the biennial period with a surplus, crop included, of over \$3,000.

The measure of success achieved, under circumstances so discouraging at the outset, encourages us to hope that, with the aid so generously given by the city of Lexington and the county of Fayette, whereby grounds and buildings adequate to its present necessities will be provided, and with the additional endowment obtained from the State, whereby its facilities for instruction will be extended, and its efficiency increased, the Board of Trustees, to whom the care and oversight of the State College is now committed, will be able, in the no distant future, to make it an institution of

which the Commonwealth will be justly proud, and which shall take rank with the great colleges and universities of the country.

I am, gentlemen,

Your obedient servant,

JAMES K. PATTERSON.

**Matriculates of the Agricultural and Mechanical College
of Kentucky, 1879-'80.**

ADAMS, STANLEY GOWER.	Springport, Ky.
ALLEN, JOHN HENRY.	Lagrange, Ky.
ALLEN, WILLIAM ADONIRAM.	Centreville, Ky.
AMYX, THOMAS J.	West Liberty, Ky.
BARR, JAMES BARCLAY.	Lexington, Ky.
BARRICKMAN, LOUIS.	Lagrange, Ky.
BAYNE, WILLIAM SIMEON.	Mt. Olivet, Ky.
BEALL, EDWARD BUSH.	Fayette county, Ky.
BEALL, LEONARD NELSON.	Fayette county, Ky.
BEAMAN, REUEL FRANKLIN.	Snow Hill, N. C.
BERAUD, WM. DESIRÉ.	Covington, Ky.
BERRYMAN, JOHN COSTER.	Lexington, Ky.
BERRYMAN, CHARLES HENRY.	Lexington, Ky.
BOSWORTH, JOHN CLOUD.	Fayette county, Ky.
BOWLES, JOHN.	Caskey Station, Ky.
BOWMAN, WILLIAM REED.	Fayette county, Ky.
BUNDY, GRANT PRICE.	Fayette county, Ky.
BURTON, VICESIMUS BASTERFIELD.	Cloverport, Ky.
BUSH, WILLIAM REUBEN.	Smithland, Ky.
BURGIN, CLIFTON.	Athens, Ky.
BRAWNER, JOHN BASIL.	Whitley C. H., Ky.
BROTHER, HUNTER.	Fayette county, Ky.
BRUTTON, HARRY LEBLOND.	Newport, Ky.
BRYANT, HIRAM EMMETT.	Crab Orchard, Ky.
COCKERILLE, MONTFORT WELLS.	Alexandria, La.
COCKERILLE, SAMUEL LEE.	Alexandria, La.

COLE, CHESTER	Shannon, Ky.
COFFMAN, JAMES DUDLEY	Nicholasville, Ky.
COLYER, RICHARD WHITE	Whitehall, Ky.
COLYER, STEPHEN DEARBORN	Whitehall, Ky.
CORBYN, CHANNING MOORE	Fredericksburg, Va.
CRAIG, ALBERT DEWEES GROSVENOR	Lexington, Ky.
CRAIG, HORACE GROSVENOR	Lexington, Ky.
CRAWFORD, JAMES	Winchester, Tenn.
CRAWFORD, HENDERSON	Winchester, Tenn.
CRAWFORD, JULIUS HACKER	Cleveland, Ky.
CRAWFORD, THEOPHILUS GARRETT	Cleveland, Ky.
CROPPER, WILLIAM NATHANIEL	Lexington, Ky.
DAVIS, CHARLES CHESTER	Hebron, Ky.
DELPH, JEREMIAH EDWARD	Lexington, Ky.
DOUTHITT, JOHN FRANKLIN	Curdsville, Ky.
DOWDEN, ETHELBERT	Lexington, Ky.
DUNN, GRAY WASHINGTON	Williamette, Ark.
DUNN, WILLIAM DUDLEY	Williamette, Ark.
EAVES, WILLIAM HENRY	Greenville, Ky.
EASLY, WILLIAM FLETCHER	Minorsville, Ky.
FINCEL, HENRY	Frankfort, Ky.
FORBIS, JAMES HARVEY	Lewisport, Ky.
FRAZER, JOHN EASLY	Abb's Valley, Va.
FYFFE, JAMES PERRY	Maysville, Ky.
GAY, ISHAM	Snow Hill, N. C.
GIBBS, WILLIAM RANSOM	West Liberty, Ky.
GIFT, JAMES HANSON	Millington Sta., Tenn.
GIROD, LOUIS NEELY	Hanson, Ky.
GOODLOE, SHREVE	Lexington, Ky.
GOODLOE, SPEED SMITH	Lexington, Ky.
GOLDSMITH, SIMON	Lexington, Ky.
GORDON, CRITTENDEN	Hebron, Ky.
GORHAM, JOHN BRECKINRIDGE	Fayette county, Ky.
GUNN, WILLIAM EDWARD	Lexington, Ky.
HAGYARD, EDWARD WEDDALL	Lexington, Ky.
HARRIS, THOMAS WALKER	Lexington, Ky.
HENRY, JACOB LEE	Aaron's Run, Ky.
HITE, JOSEPH WILLIAM	Shelbyville, Ky.
HOAGLAND, WILLIAM WILSON	Lexington, Ky.
HODGES, ARTHUR ODEN	Lexington, Ky.
HOLMES, SAMUEL	Mt. Olivet, Ky.

HOOPMAN, SYLVESTER VINTON	Red Bank, N. J.
INGRAM, JAMES EDWARD	Monticello, Ky.
IRVINE, FREDERICK KENSALL	Fayette county, Ky.
IRVINE, WILLIAM McCLANAHAN	Fayette county, Ky.
JASPER, JOHN SOPER	Nicholasville, Ky.
JOHNSON, ERNEST CARTY	Lexington, Ky.
JONES, FREDERICK WILLIAM	Newport, Ky.
KENDALL, JO. MORGAN	West Liberty, Ky.
KING, IVEY	Tuckahoe, N. C.
KING, WILLIAM ELIJAH	Cox's Creek, Ky.
LAIL, JEPHTHAH AMARIAH	Broadwell, Ky.
LeBLOND, ROBERT ARTHUR	Cincinnati, Ohio.
LEE, ANDREW CROCKETT	Gainsborough, Tenn.
LITTON, WILLIAM JAMES	London, Ky.
LLOYD, WILLIAM GREEN	Kelso, Tenn.
MILLER, GERMAN BAXTER	Spears, Ky.
MORGAN, GEORGE CLAUDE	Lexington, Ky.
MOUNTJOY, BAILEY WALLER	Lawrenceburg, Ky.
MURPHY, THOMAS PATTON	Asheville, N. C.
OSENTON, HARRY KELLY	Grayson, Ky.
OVERSTREET, JOHN MILTON	McAfee, Ky.
PARKER, JAMES SAMUEL	Sadieville, Ky.
PATTERSON, WILLIAM ANDREW	Lexington, Ky.
PETER, ALFRED MEREDITH	Fayette county, Ky.
PIPER, AUGUSTUS BOWMAN	Lexington, Ky.
PIPER, EDWARD SIMS	Lexington, Ky.
PREWETT, HOWELL	Athens, Ky.
REID, EUGENE CYRUS	Fayette county, Ky.
REYNOLDS, CHARLES LACHAN	Lexington, Ky.
REYNOLDS, FRANK WOODFORD BUSH	Lexington, Ky.
ROUTT, WILLIAM KELSO	Kelso, Tenn.
RYAN, WILLIAM HENRY	Hopkinsville, Ky.
SAGE, OMAR NORTON	Lexington, Ky.
SELLERS, VIRGIL TRIPLET	Slaughtersville, Ky.
SIGLER, ROBERT IDILLA	Millington Sta., Tenn.
SIMMONS, JAMES PETTITT	Athens, Ky.
SUMMERS, WILSON	Cox's Creek, Ky.
SCOTT, WILLIAM THOMAS	Memphis, Tenn.
SHACKLEFORD, JOHN ARMSTRONG	Lexington, Ky.
SHELY, ALVA MERRILL	Lexington, Ky.
SHELY, WILLIAM ADONIRAM	Fayette county, Ky.

SMITH, JOHN CABELL	Shawhan, Ky.
SMITH, JOHN PARK	Jericho Ky.
SMITH, WILLIAM HENRY	Jericho, Ky.
SMITH, ANCIL BIAS	Antioch Mills, Ky.
SMYTH, JOHN BURKE	Beattyville, Ky.
SNYDER, BENJAMIN HENRY	Florence, Ky.
SPEARS, JOHN CHRISMAN	Spears, Ky.
SPEYER, JACOB NOAH	Lexington, Ky.
STEADMAN, LEA	Fayette county, Ky.
STROTHER, GEO. TOUTANT BEAUREGARD	Mount Video, Ky.
STROTHER, JOHN DABNEY	Mount Video, Ky.
TANNER, JOHN LOGAN	Liberty, Ky.
TISDALE, DILLARD	Lexington, Ky.
THORN, JAMES BENNETT	Marlborough, N. C.
THORN, WILLIAM HENRY	Marlborough, N. C.
TRIMBLE, JAMES HARLAN	Hazle Green, Ky.
TRAYLOR, CHARLES RUSSELL	Minorsville, Ky.
WARE, EDWIN OSWALD	Campbellsville, Ky.
WARE, JOHN FILLMORE	Winchester, Ky.
WARE, WYATT	Winchester, Ky.
WARE, WILLIAM WESTON	Winchester, Ky.
WELLER, NICHOLAS JOHN	Cane Spring, Ky.
WILSON, RICHARD EDGAR	Mount Olivet, Ky.
WILLIAMS, ISAAC MORTON	Midway, Ky.
WOOLFOLK, JOHN GROSVENOR	Lexington, Ky.
WHATLEY, GEORGE CROGHAN	Jacksonville, Ala.
WHITEHEAD, WILLIAM FUQUA	Carrollton, Ky.
YOUNG, WILLIAM SILAS	Lexington, Ky.

DEPARTMENTS OF STUDY.

The Departments of Study comprise the following :

Mathematics.
Physics and Astronomy.
Chemistry, Elementary and Applied.
Mental and Moral Philosophy.
Civil History and Political Economy.
Agriculture and Horticulture.
English Language and Literature.
Latin Language and Literature.
Greek Language and Literature.
French Language and Literature.
German Language and Literature.
Spanish Language and Literature.
Italian Language and Literature.
Civil, Mechanical, and Mining Engineering and Drawing.
Natural History—Botany, Comp. Anatomy, Geology, &c.
Veterinary Science.
Practical Mechanics.
Theory and Practice of Teaching.
Book-keeping and Penmanship.
Commercial Law.
Military Art and Science
Architectural and Landscape Gardening.

Scientific Course.

Mathematics
Physics and Astronomy.
Chemistry, Elementary and Applied.
Agriculture and Horticulture.
Veterinary Science.
Civil History and Political Economy.
Mental and Moral Philosophy.
Natural History—Botany, Zoology, Comp. Anatomy, Geology, Mineralogy, &c.
Latin, Partial Course.
French or German.

Practical Mechanics.
 English Language and Literature.
 Civil, Mechanical, and Mining Engineering and Drawing.
 Landscape Gardening.
 Military Art and Science.

Classical Course.

Mathematics.
 Physics and Astronomy.
 Chemistry.
 Mental and Moral Philosophy.
 Latin and Greek Languages and Literature.
 English Language and Literature.
 French and German Languages and Literature.
 Spanish and Italian (optional).
 Civil History and Political Economy.
 Natural History--Botany, Comp. Anatomy, Zoology, Geology, &c.

Course of Study Required for Diploma in Normal School.

Elementary English Branches.
 Mathematics, including Geometry and Trigonometry.
 Experimental Physics.
 Descriptive Astronomy.
 Natural History--Botany, Physical Geography, Physiology.
 Penmanship and Book-keeping, Drawing.
 Rhetoric, Elements of Criticism, Composition, Logic.
 History and Political Economy.
 Theory and Practice of Teaching.
 French and German.
 Latin Language and Literature, partial course.

All other departments of study in the College are open, without extra fees, to students in the Normal course. To those who do not take the course required for a diploma, certificates of qualification to teach are issued for those branches in which the required degree of proficiency is attained.

The course of study required for a diploma in the Commercial Course is as follows:

Penmanship, Book-keeping, general and special.
 English Grammar; Geography--Descriptive, Political, and Physical.
 Rhetoric, Composition.
 Higher Arithmetic, Algebra, Geometry.

Political Economy, Moral Philosophy.
French and German.
Commercial Law.

All other departments are open, without extra fees to students in the Commercial Course. To those who do not take the entire course of study, but confine themselves mainly to book-keeping, certificates are given when the required degree of proficiency is attained.

COURSE OF INSTRUCTION.

I. Course in Civil History.

PROFESSOR PATTERSON.

JUNIOR CLASS.

FIRST TERM—Freeman's General Sketch of European History.

SECOND TERM—Sime's History of Germany; Doyle's United States.

SENIOR CLASS.

FIRST TERM—The Student's Hume; English Constitution.

SECOND TERM—Constitution of the United States; Political Economy.

II. Course in the English.

PROFESSOR SHACKLEFORD.

FRESHMAN CLASS.

FIRST TERM—Fowler's Grammar, with Exercises in Composition.

SECOND TERM—March's Philological Study of the English Language, with Exercises in Composition.

SOPHOMORE CLASS.

FIRST TERM—Kame's Elements of Criticism, with Exercises in Composition.

SECOND TERM—English Lessons, with Exercises in Composition.

JUNIOR CLASS.

FIRST TERM—Sir William Hamilton's Lectures on Logic.

SECOND TERM—Whately's Rhetoric, with Exercises.

SENIOR CLASS.

FIRST TERM—Shaw's Literature, Anglo-Saxon.

SECOND TERM—Chambers' English Literature, Anglo-Saxon.

III. Course in Mental and Moral Philosophy.

PROFESSOR PATTERSON.

FIRST TERM—Metaphysics, Hamilton's Lectures.

SECOND TERM—Moral Philosophy, Calderwood.

IV. Course in Latin.

PROFESSOR NEVILLE.

PREPARATORY.

FIRST TERM—The Grammar; a daily exercise in writing Latin on the blackboard; a Latin Reader begun; Classical Geography.

SECOND TERM—The Grammar; Exercise and Reader continued; Cæsar; Nepos.

FRESHMAN CLASS.

FIRST TERM—Selections from Virgil and Ovid; Exercises in writing Latin prose; Liddell's History of Rome (private study).

SECOND TERM—Sallust's Catiline; Select Orations of Cicero; Latin Composition.

SOPHOMORE CLASS.

FIRST TERM—Livy (Books I, II, XXI, XXII); Latin Composition.

SECOND TERM—Cicero (on Old Age, on Friendship, Scipio's Dream); Horace (Odes and Epodes).

JUNIOR CLASS.

FIRST TERM—Horace (Select Satires and Epistles); Juvenal (Satires I, III, VIII, X); Plautus (The Captives) or Terence (The Andrian); Translations of Latin retranslated.

SECOND TERM—Tacitus (Germania, Agricola, Selections from the Annals); Composition.

SENIOR CLASS.

FIRST TERM—Select Letters of Cicero and of Pliny; Selections from Lucan.

SECOND TERM—Selections from Varro, Seneca, Quintilian, Suetonius, and Lucretius; Original Essays in Latin.

V. Course in Greek.

PROFESSOR NEVILLE.

PREPARATORY.

FIRST TERM—Hadley's Elementary Grammar, with White's First Lessons (revised ed.); a daily exercise in writing Greek on the blackboard, with the accents; a Greek Reader.

SECOND TERM—The Grammar; Exercise and Reader continued.

FRESHMAN CLASS.

FIRST TERM—Xenophon's Anabasis; Select Dialogues of Lucian; Greek Composition.

SECOND TERM—Selections from Herodotus; Smith's History of Greece.

SOPHOMORE CLASS.

FIRST TERM—Selections from The Iliad or the Odyssey; Exercises in writing Greek.

SECOND TERM—Xenophon's Memorabilia; Plato's Apology and Crito; Composition.

JUNIOR CLASS.

FIRST TERM—Thucydides (Parts of Books I, II, III, VI, VII); Prose Composition.

SECOND TERM—Lysias and Demosthenes; Lyric Poets; Theocritus.

SENIOR CLASS.

FIRST TERM—A Drama of Euripides and one of Sophocles.

SECOND TERM—A Drama of Æschylus and one of Aristophanes.

VI. Course in Mathematics.

PROFESSOR WHITE.

FRESHMAN CLASS.

FIRST TERM—Peck's Manual of Algebra to Chapter XI.

SECOND TERM—Algebra completed; Peck's Manual of Geometry to Book VI.

SOPHOMORE CLASS.

FIRST TERM—Peck's Manual of Geometry, Books VI, VII, VIII, IX; Peck's Conic Sections; Plane Trigonometry.

SECOND TERM—Analytical and Spherical Trigonometry; Loomis's Surveying and Navigation.

JUNIOR CLASS.

FIRST TERM—Peck's Analytical Geometry.

SECOND TERM—Peck's Calculus.

SENIOR CLASS.

FIRST TERM—Snell's Olmsted's Mechanics.

SECOND TERM—Snell's Olmsted's Astronomy.

VII. Course in Chemistry and Physics.

PROFESSOR PETER.

JUNIOR CLASS.

FIRST TERM—Lecture or Recitation daily; Elementary General Physics and Chemical Physics, with Experimental Illustrations and Applications.

SECOND TERM—Same, continued into Elementary Chemistry.

SENIOR CLASS.

BOTH TERMS—Lecture or Recitation daily; General Chemistry, with its application to Agriculture, Medicine, and the Mechanic Arts, fully illustrated by experiments.

PRACTICAL CHEMISTRY.

Preparations are made for full instruction in Practical Chemistry under the general supervision of the Professor of Chemistry and Physics, and the immediate charge of the Adjunct Professor of Chemistry. Each student will be charged with the apparatus he may break, and a small additional fee for the course.

VIII. Course in Natural History.

PROFESSOR CRANDALL.

To enter the Sophomore Class of this School, students must have attended at least one course of lectures upon Organic and Inorganic Chemistry, and must present a certificate of having sustained a thorough and satisfactory examination therein. Those wishing to enter any advanced class must sustain an examination upon the studies of the previous classes, or present proof of having done so elsewhere.

FRESHMAN CLASS.

FIRST TERM—Physical Geography

SECOND TERM—Elementary Anatomy and Physiology, alternating with Elementary Botany; Economic Botany.

SOPHOMORE CLASS.

FIRST TERM—Human Physiology, or the structure and laws of the human body, and the preservation of health, both physical and mental.

SECOND TERM—Botany, Structural and Systematic; the Laws of Growth, Cultivation, and Propagation; Relation of Forests to Agriculture.

JUNIOR CLASS.

FIRST TERM—Zoology; Comparative Zoology; Microscopy, the use of the microscope.

SECOND TERM—Zoology; Classification and Distribution of Animals; Relation of Insects to Vegetation.

SENIOR CLASS.

FIRST TERM—Geology and Paleontology; the Principles of Geology; Economic Geology.

SECOND TERM—Geology and Paleontology; the study and classification of forms of life as preserved in the rock formations; discussion of some of the leading questions, economic and scientific, that grow out of this study; Relation of Geology to Soils.

IX. Course in Modern Languages.

PROFESSOR HELVETI.

SENIOR CLASS.

FIRST SESSION.

French—Ahn-Henn's French Course, 1st part; First Reader.

German—German Course, 1st part.

Italian—Cuore's Grammar; Foresti's Reader.

Spanish—Salkeld's 1st Book in Spanish; Velasquez's Reader.

SECOND SESSION.

French—Ahn-Henn's French Course, 2d and 3d Book; Second Reader and Dialogues.

German—German Course, 2d and 3d Book; Second Reader.

Italian—Foresti's Reader; Goldoni.

Spanish—Velasquez's Reader; Don Quixote.

SENIOR CLASS.

FIRST SESSION.

French—Ahn-Henn's French Course, last part; E. Borel's Grammaire Francaise; LeConscrit de 1813.

German—Ahn Henn's German Course, 4th Book; Schiller's Dramas.

Italian—Goldoni; Tasso.

Spanish—Don Quixote; Calderon

SECOND SESSION.

French—E. Borel; Scribe; Molière; Racine.

German—Schiller; Goethe; Lessing.

Italian—Dante.

Spanish—Calderon; Lopez de Vega.

X. Military Art and Science.

PROFESSOR HOWELL.

Practical and Theoretical Instruction in the Tactics of the different Arms; in Military Discipline, including the duties of Guards, Sentinels, etc., in accordance with the Tactics and Regulations prescribed for the United States Army; Civil, Mechanical, and Mining Engineering; Military Engineering; Drawing.

All students, except those who matriculate in the Normal School or Commercial Department, are required to wear the prescribed uniform dress (the cost of which is about \$20); and every student not physically disabled is required to attend the prescribed drills and other military training and discipline, to which three hours of each week are devoted.

In addition to the importance of military science and training, considered in themselves, the habits of exactness and promptitude, developed thereby and the ease, grace, and dignity resulting therefrom, cannot be overestimated.

XI. Commercial Department.

Course of Instruction.

PROFESSOR VANCE, PRINCIPAL.

FIRST YEAR.

English Grammar, Composition
Geography—Descriptive, Political, and Physical.
Arithmetic, Elementary Algebra.
Book-keeping—Elements, Penmanship.

SECOND YEAR.

Rhetoric, Composition.
Higher Arithmetic, Algebra.
French, German.
Political Economy, Book-keeping continued.

THIRD YEAR.

Moral Philosophy, Commercial Law.
Geometry, Book-keeping continued.
French and German.

XII. Normal Department.

Course of Instruction.

PROFESSOR KIRBY, PRINCIPAL.

FIRST YEAR.

English Grammar and Composition.
 Geography—Descriptive and Political.
 Chemistry. Elementary; Drawing; Experimental Physics.
 Arithmetic, Elementary Algebra
 Latin Grammar and Reader.
 History, Outlines of.
 Theory and Practice of Teaching.
 French and German.

SECOND YEAR.

Rhetoric and Composition.
 Physical Geography, Botany, Drawing.
 Higher Arithmetic, Higher Algebra.
 History United States, Political Economy.
 Latin—Cæsar, Cicero.
 Theory and Practice of Teaching.
 French and German.

THIRD YEAR.

Elements of Criticism, Logic, Mental Philosophy.
 Anatomy, Physiology and Hygiene, Drawing.
 Geometry and Trigonometry; Latin—Cicero, Virgil.
 Theory and Practice of Teaching.
 French and German.

XIII. Agriculture and Horticulture.

Course of Instruction.

PROFESSOR ———.

FIRST YEAR.

English Grammar, Arithmetic, Geography, El. Physics, Chemistry; Soils, preparation of, improvement of.

SECOND YEAR.

Botany, Agricultural Chemistry, Comparative Anatomy, Cultivation of Crops, Cereals, Roots, Grasses, Algebra, Practical Mechanics.

THIRD YEAR.

Geology Zoology Geometry, Surveying, Laws of Stock-breeding, Veterinary Science Fruits and Fruit Trees, Planting, Budding, Grafting.

XIV. Practical Mechanics.

Instruction in Practical Mechanics includes such elementary practice in the work shop as will enable the student to apply the principles of experimental physics taught in the class room, and familiarize him with the use of tools, machinery, and mechanical processes. The Course of Instruction is based on what is known as the Russian System, now generally adopted in the Agricultural and Mechanical Colleges of this country. It embraces mechanical drawing, the study and care of tools, work in wood and metals at the bench, the lathe, and the forge. This department is under the care of one of the most skillful of practical mechanics.

Conditions of Admission.

Applicants for admission into the Freshman Class of the Scientific Course must be prepared to stand an examination upon the following or their equivalents: English Grammar and Composition, Geography, Ray's Arithmetic, Part III, Ray's Algebra, Part I, Outlines of History.

Applicants for admission into the Normal School, or Commercial Department, must be prepared to stand an examination in English Grammar, Arithmetic, and Geography.

Degrees.

The degrees conferred are Bachelor of Science (B. S.), Bachelor of Arts (B. A.), Master of Science (M. S.), Master of Arts (M. A.)

For the degrees of B. S. and B. A. an actual membership of at least one year in this College is required, and a satisfactory examination on the *entire course* of scientific or classical study.

For the degrees of M. S. and M. A., a satisfactory examination is required on a course of post-graduate studies prescribed by the Faculty, and covering a period of two years.

To those who do not complete the entire Scientific or Classical Course, but only certain parts thereof, certificates of proficiency may be given for those branches of study completed.

No degrees are conferred upon graduates in the Normal School or Commercial Department; but diplomas are given to those who complete the course of study embraced therein.

Fees.

Tuition for the year	\$15 00
Matriculation	5 00

Total fees.	\$20 00

Those who occupy rooms in the dormitory pay \$5 each, yearly, for the use of an unfurnished room. A standing deposit of \$5 is required from each student, which deposit is refunded when his connection with the College is terminated, less the amount which may be assessed against him for damages done to the buildings, furniture, or premises.

Location.

The Agricultural and Mechanical College of Kentucky is established on the City Park grounds of the city of Lexington, given to the Commonwealth for this purpose. The site is elevated, and commands a good view of the city and surrounding country. A new college building will be erected during the summer and autumn of the present year, containing commodious chapel, society rooms, lecture and recitation rooms sufficient for the accommodation of 500 students. A large and well ventilated dormitory will also be built, with rooms for 72 students, for the use of the appointees sent by the Legislative Representative Districts of the State to the *scientific* or *classical* departments of the College, and containing suitable dining-room, kitchen, matron's and servants' rooms. The natural conformation

of the ground and an abundant supply of water from the old Maxwell spring, render the construction of an artificial lake, with boating course a quarter of a mile in length, comparatively easy, thus providing for a beautiful sheet of water to add to the attractions of the landscape.

Lexington is now the most important railroad center in Kentucky, being in immediate communication with Louisville, Cincinnati, Maysville, Chattanooga, and with more than 70 counties in the Commonwealth. The long established reputation of the city for refinement and culture, renders it attractive as a seat of learning, and the large body of fertile country adjacent, known as the "Blue-Grass Region," with its splendid stock farms, affords unsurpassed advantages to the student of agriculture who desires to make himself familiar with the best breeds of horses, cattle, sheep, and swine in America.

Boarding.

For the accommodation of students sent by the Board of Examiners appointed by the Court of Claims, as beneficiaries of the Legislative Representative Districts of the State, 72 rooms are provided in the dormitory. To these it is believed that good substantial board can be furnished at \$2 per week, payable in advance. Students lodging in the dormitory furnish their own rooms. Good boarding, with fuel, lights, and furnished room can be obtained in private families at rates varying from \$3 to \$5 per week. In all cases where students can at all afford it, boarding and lodging in private families are recommended.

Expenses.

The necessary expenses of a student while at College need not exceed the following estimates. As a rule, the less pocket money allowed by parents or guardians, the

better it is for the pupil. When supplies are kept short, the opportunity for contracting vicious habits is correspondingly diminished. Students should be allowed by their parents to create no debts.

For appointees occupying a room in the dormitory, and boarding in the common mess, the necessary expenses are as follows:

Tuition fee	\$00 00
Room fee	5 00
Matriculation	5 00
Cost of furnishing room, about.	12 00
Fuel and lights.	6 00
Washing.	10 00
Board, 40 weeks, at \$2 per week	80 00
Books, about.	10 00

Total	\$128 00

The furniture bought at the outset can be sold at the end of the collegiate year or retained for further use, at the option of the owner.

For students who are not supplied with appointments from the Legislative Representative Districts of the Commonwealth, and who board in private families, the necessary expenses will be as follows:

Tuition fee	\$15 00
Matriculation fee	5 00
Board and lodging, 40 weeks, at \$3 to \$5 per week	120 00 to \$200 00
Washing	10 00
Books and stationery.	10 00

Total.	\$160 00 to \$240 00

Beneficiaries.

Each Legislative Representative District is allowed to send, on competitive examination, *one properly prepared student* each year, between the ages of twelve and twenty-

five, to this College, free of tuition charge. Said students shall be selected as follows: 1st. The trustees and teacher of each common school taught within said Representative District shall select and send before an Examining Board appointed by the Court of Claims *one* pupil taught in the school managed and taught by them. 2d. Any other person resident within the Representative District, and within the required limits as to age, may present himself to the Examining Board appointed by the Court of Claims as a candidate for selection, and from these persons so appearing, viz: from the pupils sent before the said Examining Board by the trustees and teachers of common schools, and from such other persons within the specified age as present themselves, the Examining Board appointed by the Court of Claims shall select one student, and properly certify to his selection, who shall be entitled to remain at the College four years, or until the course of study for which he matriculates shall have been completed. Preference in such selection and appointment shall be given to energetic, moral young men, whose means are not large, to aid whom in obtaining a good education this provision is especially intended. Properly prepared students under the meaning of the acts of the Legislature, of which the foregoing is a summary, are those who can pass a satisfactory examination in Spelling, Reading, Writing, Arithmetic as far as decimal fractions, Geography, and English Grammar.

All teachers, or persons preparing to teach, are admitted free of tuition charge for one year, at the rate of not more than four, at the discretion of the Board of Trustees, for each Legislative Representative District. All the classes in the College are open, without extra fees, to students who matriculate in the Normal Department.

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Compensated and Uncompensated Labor.

The work necessary for carrying on the Agricultural and Horticultural operations of the College is done by students in those departments, and is paid for at rates varying from five to eight cents per hour. Its design is two-fold: to put in practice the instructions received in the class-room, and to assist indigent students. The experience of this College is that of Agricultural Colleges generally—that compensated labor is not remunerative to the College.

No compensation is given to students in the Department of Practical Mechanics, inasmuch as no pecuniary returns are possible to the College from this department as at present organized.

All students are liable to be called upon for occasional work upon the grounds belonging to the College, and to such work no compensation is attached.

Preparatory Department.

For the benefit of those who are inadequately prepared to enter the regular college classes, a Preparatory Department has been organized, under the charge of a Principal, assisted by a competent staff of assistants, which will provide the necessary elementary instruction. The conditions of admission into the Preparatory Department are, a good knowledge of Arithmetic as far as fractions, English Grammar, and Geography.

Certificates of Character.

All applicants for admission into any class in the College, or Preparatory Department, must bring satisfactory testimonials of good moral character.

Department and Discipline.

As no one is admitted into the College whose good moral character is not satisfactorily attested, no one will be allowed

to remain whose behavior, deportment, and habits are not those of a gentleman. A copy of Rules of Conduct will be furnished to each matriculate on entering the College, any material infringement of which will dissolve his connection with the institution.

CALENDAR.

First term begins Monday, September 13, 1880.
Thanksgiving, Thursday, November 25, 1880.
Christmas holidays begin Thursday, December 23, 1880.
Christmas holidays close Saturday, January 8, 1881.
Intermediate examinations, January 19-28, 1881.
Second term begins Monday, January 31, 1881.
Washington's Birthday, Tuesday, February 22, 1881.
Final examinations, May 25-June 7, 1881.
Board of Trustees meet Tuesday, June 7, 1881.
Commencement Day, Wednesday, June 8, 1881.

