

KY. UNIVERSITY

ANNUAL REPORT

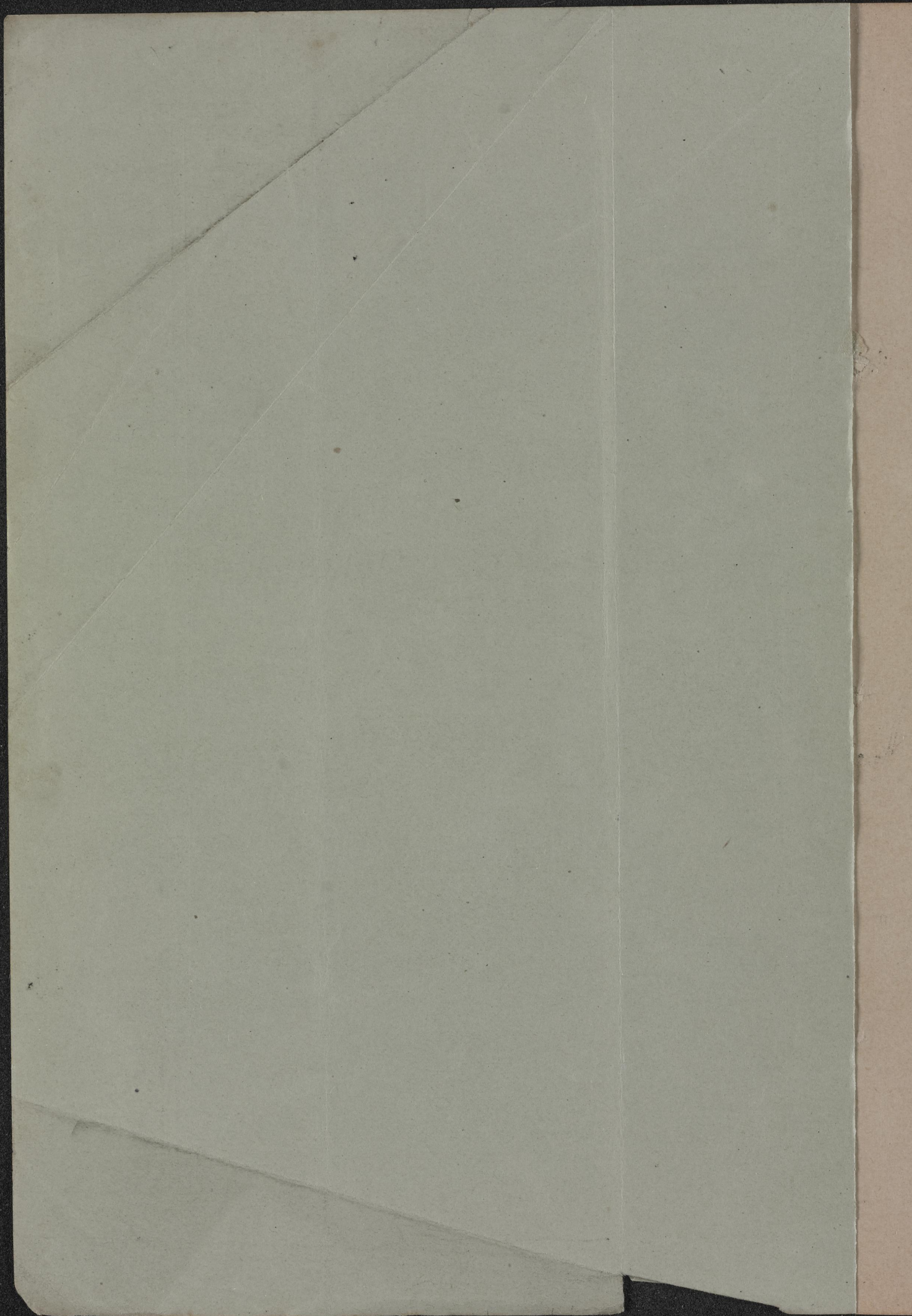


OF THE

AGRICULTURAL AND MECHANICAL
COLLEGE OF KENTUCKY.

1878-'9.

LEXINGTON, KENTUCKY.



ANNUAL REPORT
OF THE
CONDITION, MATRICULATES, AND COURSE OF STUDY
OF THE
AGRICULTURAL AND MECHANICAL
COLLEGE OF KENTUCKY,
FOR THE COLLEGIATE YEAR 1878-'9,

TO HIS EXCELLENCY THE GOVERNOR OF KENTUCKY.

Session of 1879-'80 begins Monday, September 8, 1879.

FRANKFORT, KY.:
PRINTED AT THE KENTUCKY YEOMAN OFFICE.
MAJOR, JOHNSTON & BARRETT.
1879.

To HON. JAMES B. McCREARY, *Governor of Kentucky:*

DEAR SIR: I have the honor to submit to your Excellency the following Report of the Agricultural and Mechanical College of Kentucky, embracing its condition, number of matriculates, and course of study for the collegiate year 1878-'9, as also the announcement thereof for the year 1879-'80. My Report to the Board of Visitors, and the Report of the Chairman of said Board to your Excellency, are herewith also transmitted as a part of this Report.

I am, with great respect,

Your obedient servant,

JAMES K. PATTERSON,

Pres. A. & M. College of Ky.

LEXINGTON, KY., May 30, 1879.

*Report of the Chairman of the Board of Visitors to the
Governor.*

To His Excellency, JAS. B. MCCREARY,

Governor of Kentucky:

In pursuance of an act of the last General Assembly of Kentucky, severing the connection between Kentucky University and the Agricultural and Mechanical College of Kentucky, the Board of Visitors met at Lexington on the 12th day of July last, and proceeded to organize this College as a separate Institution, by the appointment of a Faculty of competent professors and other subordinate officers, whose names appear in the Report of the President to your Excellency. The Board subsequently selected one hundred acres of land, to which the College was entitled for two years, by virtue of the agreement between the authorities of Kentucky University and the Commissioners on the part of the State.

The session of the College began on the 9th of September last, and has had a successful and uninterrupted continuance since that period. It will hold its First Annual Commencement, as a separate Institution, in the city of Lexington, on the 11th of June, 1879.

It is not deemed necessary to recapitulate the condition, operation, and prospects of the Institution, so fully set forth in the Reports of President Patterson to Your Excellency and this Board. But we cannot forbear from adding our testimony to the faithful manner in which the professors and other officials have discharged their several duties, and we cheerfully bear witness to the exemplary conduct and gratifying progress made by the students. In an especial manner we are pleased to recognize the obligation we owe to President Patterson, who was charged by an order of the Board with many executive duties relating to the Col-

lege, embracing the general oversight of every department and all the interests of the Institution—subject to the power of the Board and its Executive Committee—for the zeal, promptness, and fidelity with which he has performed his varied duties.

We cannot allow the occasion to pass without expressing to your Excellency our thanks for the interest you have uniformly taken in all efforts to promote the cause of general education, but especially to establish, upon an enduring basis, a College for the whole people free from denominational or sectarian control.

In conclusion, we beg leave to commit the Agricultural and Mechanical College of Kentucky to the fostering care of the Commonwealth.

By order of the Board.

J. P. METCALFE,
Chairman Board of Visitors.

LEXINGTON, Ky., May 13, 1879.

*Report of the President of the College to the Board of
Visitors.*

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

GENTLEMEN: The collegiate year 1878-'9 of the Agricultural and Mechanical College of Kentucky has been altogether a prosperous one.

One hundred and eighteen students have been matriculated, of whom ninety-two are from Kentucky, and twenty-six from other States. The number of matriculates exceeds that of the preceding year by 50 per cent. A much larger number would have entered but for our inability to supply labor, except to a very limited extent, during the first months of the collegiate year, to those whose means were inadequate to their maintenance, unless supplemented by the proceeds of their labor. This inability arose from the fact that all the existing crop on the estate belonged to Kentucky University. We had, therefore, no autumn work of consequence to furnish to students, except in the way of preparation for a small wheat crop, and general arrangements for the ensuing spring. Notwithstanding this drawback, we have been enabled to furnish a fair supply of labor to indigent students, at rates of compensation so liberal as to aid them materially in their maintenance. Many students, sent hither by counties as State beneficiaries, were unable to pay matriculation fee and room rent. To such we gave the privilege of working out their fees. A like indulgence was, in a few cases, given to students from abroad. Indeed, in no case has admission been refused to any applicant because of inability to pay the tuition or matriculation fees. We have endeavored so to economize expenditure as to conduct the operations of the farm and garden with the least possible expense. While, however, having a strict regard to econ-

omy, we have felt it our duty to furnish the greatest possible amount of labor to State beneficiaries, and others whose attendance upon the Institution was conditioned by the necessity of earning as much as possible. To this end we have sought to put in such crops as would furnish the greatest amount of labor, and yield the largest profits.

The distribution of crops I have sketched as follows:

Wheat	12 acres	Cabbage	3 acres.
Corn	35 "	Sweet potatoes	1 "
Irish potatoes	10 "	Miscellaneous	2 "
Grass land for hay	4 "		

The experience of this College is that of all Agricultural Colleges throughout the country, that compensated labor is profitable only to the student. The majority of those who work for compensation are unused to farm labor; many of them never had a plough or a hoe in their hands. But, inasmuch as one of the special objects in this College has been to assist indigent young men as far as possible, and at the least possible loss to the Institution, I am warranted in saying that this end has been attained.

I am glad to say that Professor Crandall has been enabled, by the appropriation which you placed at his disposal, to furnish instruction in theoretical and practical mechanics to many students who availed themselves of his services in this department. Even with the limited means placed at his command, he has shown what could be done if this department were provided with the appliances and facilities proportioned to its importance.

It was found necessary, at the beginning of the session, to provide elementary instruction for those who were not prepared to enter the regular classes. This was done by employing the most capable of the advanced students in the capacity of tutors, under the supervision of the professors to whose departments the elementary instruction required belonged. Provision was thus made for the instruction of six classes, at rates of compensation profitable to the tutors and advantageous to the College. I take great pleasure in

saying that the classes thus provided for were taught to the entire satisfaction of the Faculty.

As regards attendance, behavior, and application to study, the results have been most gratifying. Indeed, during the ten years with which I have been connected with the College as its presiding officer, I have not known a session so satisfactory in these respects.

Instruction has been furnished in the several classes which make up the departments of Civil History, Political Economy, English Literature, Mathematics, Chemistry, Agricultural Chemistry, Moral Philosophy, Modern Languages, Natural History, and Civil Engineering, and with satisfactory results.

I beg to express, in conclusion, my deep sense of the intelligent direction and hearty co-operation of the Executive Board appointed by your honorable body, and my thanks for the uniform courtesy, kindness, and forbearance which I have experienced at their hands. To those upon whom the weight of responsibility has chiefly fallen, as well as to the other members composing the Board of Visitors, the Commonwealth, I am sure, owes a debt of gratitude for the measures so wisely devised and so ably executed. To these measures the Agricultural and Mechanical College owes the success which it has achieved during the past year, and whose results you now present to the State and the public at large.

I am, gentlemen,

Your obedient servant,

JAMES K. PATTERSON.

*Agricultural and Mechanical College of Kentucky—Report
to the Governor.*

BOARD OF VISITORS.

HON. J. P. METCALFE, CHAIRMAN Lexington, Ky.
COL. W. C. P. BRECKINKRIDGE, LL. D., SECRETARY . Lexington, Ky.
JUDGE W. B. HOKE Louisville, Ky.
COL. L. J. BRADFORD Covington, Ky.
HUGH A. MORAN, Esq. Richmond, Ky.
C. A. HARDIN, Esq. Harrodsburg, Ky.

*Agricultural and Mechanical College of Kentucky—Report
to the Governor.*

FACULTY.

J. K. PATTERSON, A. M., Ph. D.,
PRESIDENT, AND PROFESSOR OF CIVIL HISTORY AND POLITICAL ECONOMY.

ROBERT PETER, M. D.,
PROFESSOR OF CHEMISTRY AND EXPERIMENTAL PHILOSOPHY.

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

J. G. WHITE,
PROFESSOR OF MATHEMATICS, MECHANICS, AND ASTRONOMY.

A. R. CRANDALL,
PROFESSOR OF NATURAL HISTORY.

J. D. PICKETT, A. M.,
PROFESSOR OF MENTAL AND MORAL PHILOSOPHY, AND OF MODERN LANGUAGES.

LIEUT. R. G. HOWELL, U. S. A.,
PROFESSOR OF MILITARY TACTICS AND CIVIL ENGINEERING.

N. B. HAYS,
TUTOR IN MATHEMATICS.

E. T. ELGAN,
TUTOR IN MATHEMATICS.

N. J. WELLER,
TUTOR IN GEOGRAPHY AND HISTORY.

M. L. PENCE,
TUTOR IN ENGLISH.

C. G. BLAKELY,
TUTOR IN MATHEMATICS.

OTHER OFFICERS.

JAMES CRAWFORD,
SUPERINTENDENT OF LABOR DEPARTMENT.

J. M. MOORE,
JANITOR.

*Condition of the Agricultural and Mechanical College of
Kentucky—Report of the President to the Governor.*

The Agricultural and Mechanical College of Kentucky was, by the action of the last General Assembly, detached from its connection with Kentucky University, of which it had been one of the Colleges, and placed upon an independent basis. It is now governed by a Board of Visitors, appointed by the Governor of the Commonwealth, and in its administration and control is entirely separate and distinct from Kentucky University. It is provisionally established on the Ashland and Woodland estates, in the vicinity of Lexington. During its continuance upon its present site, and until its ultimate location shall have been determined by the General Assembly, the Agricultural and Mechanical College of Kentucky has, by agreement with Kentucky University, the sole and exclusive use of one hundred acres of land of the Ashland and Woodland estates, and for every matriculate over one hundred, one additional acre. Its matriculates, in addition to the advantages afforded by its own departments of study, have access, free of charge, to the Departments of Latin and Greek in the Kentucky University. The course of study in the Agricultural and Mechanical College has been enlarged by an advanced course of Agricultural Chemistry, and by a special course of lectures, by the Professor of Natural History, upon Economic Botany, the Relation of Geology to Soils, of Forests to Agriculture, and of Insects to Vegetation. Facilities are afforded for cheap board in clubs upon the grounds. Last year good, substantial board and comfortable lodging were thus provided, at an expense not exceeding eighty or ninety dollars per annum.

Board in private families, including lodging, fuel, and lights, can be obtained at from \$3.00 to \$4.50 per week.

Each legislative district in the Commonwealth is entitled to send to this Institution three properly prepared students free of tuition. All students, however, pay the required matriculation fee, and also the room fee, if resident upon the College grounds.

Each matriculate is also required to deposit \$2.00 with the Treasurer to cover damages. This deposit will be refunded when the student leaves College, less the amount of damage assessed to the depositor.

All students who occupy the dormitories on the College grounds are required to furnish their own rooms.

Tuition fee for the entire year	\$15 00
Matriculation fee.	5 00
Room fee	5 00

Matriculates who enter after the beginning of the second term—January 26, 1880—will be charged half the foregoing rates.

The necessary expenditure by county appointees, who board in clubs and room upon the grounds, may be summed up as follows:

Matriculation fee	\$5 00
Room fee	5 00
Cost of furnishing room	10 00
Board in club 40 weeks, at \$1.50 per week	60 00
Fuel	4 00
Lights	1 00
Washing—25 cents per week	10 00
Books and stationery	10 00
Total.	\$105 00

To those who are not provided with county appointments the necessary expenditure estimated above will be increased by the tuition fee, viz: \$15.00, making the total for such \$120.00.

The amount to be added to the above for clothing and pocket money will, of course, vary with the habits of the student. It is earnestly recommended, however, that parents and guardians enjoin economy in the former, and reduce the latter within the narrowest possible limits.

County appointees are selected by the County Judge and Board of Magistrates of the respective Representative districts entitled to send beneficiaries. An appointment by a County Judge is held to be valid until the next regular meeting of the County Magistrates. County appointees, as well as all other applicants for matriculation, must bring certificates of good moral character. Age for admission, fourteen years.

In order to assist meritorious young men to defray expenses, labor will be furnished *to a limited number of students, at rates of compensation varying from six to eight cents per hour.* Other circumstances being equal, preference will be given, in the labor department, to county appointees, and in the order of their arrival and application for work. All other matriculates are liable to be occasionally called upon to work a few hours without compensation, in putting into proper condition the grounds around their own quarters, and on the pleasure grounds around the College.

The success of the Agricultural and Mechanical College during the last year—the first year of its existence as an independent Institution—has far exceeded the expectations of its Board of Visitors and Faculty. During the year 1877-'8 it had but *seventy-eight* matriculates. It closes the present collegiate year with *one hundred and eighteen*—an increase of over *fifty per cent.* For years past it was alleged to have brought the Kentucky University, with which it was connected, annually into debt. This year it has paid all expenses, expended a considerable amount on student labor, made ample provision for preparatory instruction by tutors, and although it has realized, as yet, comparatively nothing from this, its first year's crop, has, at the close of the present fiscal year, an unexpended balance in the Treasury. These facts prove that an Agricultural and Mechanical College can be conducted economically and successfully, even upon the small income derived from the Congressional scrip fund, which, up to this time, constitutes its sole endow-

ment. With increased confidence, a confidence based upon last year's unexpected success, the Board of Visitors, to whom is committed, by the Legislature of the Commonwealth, the management and control of the Agricultural and Mechanical College of Kentucky, desire to commend it to the public. In no College in the State is a more thorough course of instruction given. In Natural History they believe it far surpasses any Institution in the State in breadth, in comprehension, and in thoroughness. The fees are merely nominal, while in cheapness of living they know of no College in the country which can be brought into comparison with it.

Now that it is detached from all ecclesiastical entanglement and control, they hope to see it become the basis of a State Institution such as the geographical position, the agricultural and mineral resources, and the traditions of the State require, and which shall accomplish in the no distant future a great educational work for the Commonwealth.

For further information, address

HON. J. P. METCALFE,
Chairman of the Board of Visitors.
or JAMES K. PATTERSON
President of the College.

*Students of the Agricultural and Mechanical College of
Kentucky—Report of the President to the Governor.*

MATRICULATES.

ALLEN, WM. ADONIRAM	Centreville, Ky.
ALLEN, HENRY TEMPLE	Lexington, Miss.
AMIS, THOMAS HARRISON	Flat Lick, Ky.
BALL, THOMAS EPHRAIM	Centre Point, Ky.
BARR, GARLAND HALE	Lexington, Ky.
BARR, JAMES BARCLAY	Lexington, Ky.
BAKER, THOMAS MOREHEAD	Ceralvo, Ky.
BELL, BENJAMIN DUDLEY	Lexington, Ky.
BIGGS, JOHN HUMPHREYS	Greenup C. H., Ky.
BERAND, WILLIAM DESIRÉ	Covington, Ky.
BUSH, WILLIAM REUBEN	Smithland, Ky.
BUNDY, GRANT PRICE	Lexington, Ky.
BURTON, VICESIMUS BASTERFIELD	Cloverport, Ky.
BOSWELL, JAMES LANE	Leesburg, Ky.
BOSWELL, WILLIAM GUS	Leesburg, Ky.
BOSWELL, JOSEPH	Leesburg, Ky.
BLAKELY, CHAS. GRAHAM	London, Ky.
BRACKING, FRANK BASCOM	Lexington, Ky.
BROCK, JAMES ELLISON	Lexington, Ky.
BRUTTON, HARRY LEBLOND	Newport, Ky.
BRYANT, HIRAM EMMETT	Liberty, Mo.
COLYER, RICHARD WHITE	Whitehall, Ky.
COLYER, STEPHEN DEARBORN	Whitehall, Ky.
CORBYN, CHANNING MOORE	Fredericksburg, Va.
CRAWFORD, JAMES	Winchester, Tenn.
CRAWFORD, HENDERSON	Winchester, Tenn.
CHRISTIAN, EDWIN PLEASANT	Athens, Ky.
DAVIS, SPRIGG BEAUREGARD	Caseyville, Ky.
DARDEN, JESSE GILBERT	Port Royal, Tenn.
DONNELL, EDWARD DOBYNS	Greensburg, Ind.

DUNCAN, MILLARD FILLMORE	Grayson, Ky.
DUNN, WILLIAM DUDLEY	Williamette, Ark.
DUNN, GRAY WASHINGTON	Williamette, Ark.
EDGAR, FREDERICK PARKER	Newport, Ky.
ELGAN, EZRA THOMAS	Todd's Point, Ky.
ELLIS, GEORGE DAY	Frankfort, Ky.
EVANS, SILAS	Newtown, Ky.
FARLEY, WM.	Lexington, Ky.
FORBIS, JAMES HARVEY	Lewisport, Ky.
FORWOOD, GRIFFIN SMITH	Louisville, Ky.
FRAZER, JOHN EASLY.	Abb's Valley, Va.
GIBBS, WILLIAM RANSON.	West Liberty, Ky.
GIROD, LOUIS NEELY.	Hanson, Ky.
GOLDSMITH, SIMON.	Lexington, Ky.
GOLDSMITH, MAX.	Lexington, Ky.
GOODPASTER, WILLIAM FASSETT	Owingsville, Ky.
GUNN, WM. EDWARD	Lexington, Ky.
HADDEN, NICHOLAS	Kiddville, Ky.
HANKS, ERNEST BEAUREGARD.	Lawrenceburg, Ky.
HAYS, NAPOLEON BONAPARTE.	Barbourville, Ky.
HILL, JOHN BAIRD	Hartford, Ky.
HOOPMAN, SYLVESTER VINTON	Redbank, N. J.
HULETT, SYLVESTER ALEXANDER.	Frankfort, Ky.
JOHNSON, ERNEST CARTY	Lexington, Ky.
JOHNSON, JOHN BYERS.	Horseshoe, N. C.
JONES, DAVID.	East Hickman, Ky.
JONES, FREDERICK WM.	Newport, Ky.
JORDAN, PHILIP HENRY	Harrodsburg, Ky.
KARSNER, WM. COLLIER.	Lexington, Ky.
KENDALL, JO. MORGAN	West Liberty, Ky.
KIMBLEY, CHARLES MOREHEAD.	Ceralvo, Ky.
KING, JAMES BYRON	Cox's Creek, Ky.
KING, WM. ELIJAH	Cox's Creek, Ky.
KIRKER, ELMER	Covington, Ky.
LITTON, WM. JAMES	London, Ky.
MARKWELL, EDGAR	Grange City, Ky.
MARSHALL, SILAS JONES.	New Columbus, Ky.

McCONNELL, HIRAM RICHARD	Lexington, Ky.
McCLELLAN, JOHN LOVEMAN	Fayetteville, Ala.
MORGAN, ALEXANDER.	Laurel Creek, Ky.
MILLER, GERMAN BAXTER.	Spears, Ky.
MURPHY, THOMAS PATTON	Ashville, N. C.
PATTERSON, WILLIAM ANDREW	Lexington, Ky.
PARKER, JAMES SAMUEL.	Sadieville, Ky.
PENCE, MERRY LEWIS	Lewisport, Ky.
PERRY, CALEB SYKES	Woodville, N. C.
PETER, ALFRED MEREDITH	Lexington, Ky.
PICKETT, WILLIAM HOLTON	Lexington, Ky.
PREWITT, DANIEL BOYCE	Lexington, Ky.
RAPPOLEE, JOHN HENRY.	Smithland, Ky.
REID, CYRUS EUGENE.	Lexington, Ky.
RUTTER, EDWARD	Smithland Ky.
SAUNDERS, HALDANE COCHRANE.	West Hallock, Ill.
SECHREST, JOHN ALVIN	Williamstown, Ky.
SUMMERS, NOAH CLAY.	Elkton, Ky.
SUMMERS, WILSON	Cox's Creek, Ky.
SCOTT, WILLIAM THOMAS	Memphis, Tenn.
SCHRECKENBACH, RICHARD HERMAN . . .	Breslan, Germany.
SHACKLEFORD, JOHN ARMSTRONG	Lexington, Ky.
SHOCKEY, JOHN HENRY	Cowen's Station, Ky.
SMITH, MILTON McCANN.	Lexington, Ky.
SPRAGUE, WILLIAM MATTHEW	Pleasant Hill, Ky.
SPEYER, JACOB NOAH.	Lexington, Ky.
STAFFORD, ROBERT.	Eagle Station, Ky.
STOLL, JOHN WILLIAM.	Lexington, Ky.
*STOLL, JAMES HAMILTON	Lexington, Ky.
TAYLOR, JOHN CRITTENDEN.	Lexington, Ky.
THOMPSON, CHARLES BRUCE.	New Orleans, La.
THORN, JAMES BENNETT	Marlborough, N. C.
THORN, WILLIAM HENRY	Marlborough, N. C.
THRELKELD, JAMES.	Morning View, Ky.
WARE, EDWIN OSWALD.	Campbellsville, Ky.
WARE, JOHN FILLMORE	Winchester, Ky.

* Deceased.

WARE, WYATT	Winchester, Ky.
WARE, WILLIAM WESTON	Winchester, Ky.
WARFIELD, ETHELBERT DUDLEY	Lexington, Ky.
WEBB, HENRI DE PRESCOTT	Aberdeen, Miss.
WEBB, JAMES MADISON	Knoxville, Ky.
WELLER, NICHOLAS JOHN	Cave Spring, Ky.
WILLIAMS, ALEXANDER CHARLES.	Owenton, Ky.
WILSON, RICHARD EDGAR	Mount Olivet, Ky.
WILSON, CARROL	Cloverport, Ky.
WILLIS, WILLIAM HENRY	Smithland, Ky.
WORD, JAMES RICHARD.	Mount Olivet, Ky.
WOOLFOLK, LUCIEN WILLIAM	Lexington, Ky.
WHATLEY, GEORGE CROGHAN.	Jacksonville, Ala.
WRIGHT, AUGUSTUS RICHARDSON.	Cave Spring, Ga.
WRIGHT, HENRY MOSES.	Cave Spring, Ga.

Total, 118.

*Course of Instruction in the Agricultural and Mechanical
College of Kentucky—Report of the President
to the Governor.*

Course of Instruction.

I. School of 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. School of the English Language and Literature.

PROFESSOR SHACKLEFORD.

Freshman Class.

FIRST TERM—English Grammar, with Exercises in Composition.

SECOND TERM—Graham's Synonyms, with Exercises in Composition.

Sophomore Class.

FIRST TERM—Quackenbos' Rhetoric, 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 English Literature; Shaw's Specimens from English Authors.

SECOND TERM—Chambers' English Literature.

III. School of Mental and Moral Philosophy.

PROFESSOR PICKETT.

FIRST TERM—Metaphysics, Hamilton's Lectures.

SECOND TERM—Moral Philosophy, Calderwood.

IV. School of 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.

V. School of 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 Instructor in Practical Chemistry. Each student will be charged with the apparatus he may break, and a small additional fee for the course.

VI. School 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—Zoölogy; Comparative Zoölogy; Microscopy, the use of the microscope.

SECOND TERM—Zoölogy; 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.

VII. School of Modern Languages.

PROFESSOR PICKETT.

Junior Class.

FIRST TERM	{	<i>French</i> —Fasquelle's Grammar.
		<i>Spanish</i> —Salkeld's First Book in Spanish; Velazquez's Reader.
		<i>Italian</i> —Cuore's Grammar; Foresti's Reader.
		<i>German</i> —Comfort's German Course.
SECOND TERM	{	<i>French</i> —Fasquelle's Grammar; Fasquelle's Colloquial French Reader; Télémaque; Molière.
		<i>Spanish</i> —Velazquez's Reader; Don Quijote.
		<i>Italian</i> —Foresti's Reader; Tasso.
		<i>German</i> —Comfort's German Course; German Reader.

Senior Class.

FIRST TERM	{	<i>French</i> —Molière; Racine.
		<i>Spanish</i> —Don Quijote; Calderon.
		<i>Italian</i> —Tasso; Goldoni.
		<i>German</i> —Schiller.
SECOND TERM	{	<i>French</i> —Borel's Grammaire Française; Molière; Racine.
		<i>Spanish</i> —Calderon; Lope de Vega.
		<i>Italian</i> —Dante.
		<i>German</i> —Schiller; Goethe.

A Course of Private Reading in each Language will be prescribed.

VIII. School of Military Tactics and Civil Engineering.

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 Engineering; Military Engineering.

Entrance.

To enter the Freshman Class in this College the candidate must, upon examination, show a fair acquaintance with the following subjects: English Grammar, Geography, Outlines of History, Ray's Arithmetic, Part III, Ray's Algebra, Part I.

Agricultural and Mechanical College of Kentucky.

SESSIONS—DIRECTIONS TO STUDENTS.

The collegiate year is divided into two sessions of five months each, the first of which begins on the second Monday of September, 1879, and ends on the 26th of January, 1880. The second session begins on the last Monday of January, 1880, and ends on the second Wednesday of June of the same year. It is earnestly recommended that candidates for admission present themselves some days before the opening of the session, that they may be examined and classified, and that arrangements for board and lodging be made, before the classes begin the work of the year.

Students, on arrival in Lexington, will report at once to the President, at Woodlands. In order to avoid unnecessary expense, facilities will be offered by the club for the temporary accommodations of students who are strangers.

